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Foreword

This Technical Specification has been produced by the 3GPP.

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of this TS, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 Indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
- [1] 3GPP TS 25.401: "UTRAN Overall Description". [2] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams". CCITT Recommendation X.731 (01/92): "Information Technology – Open Systems [3] Interconnection – Systems Management: State Management function". 3GPP TS 25.215: "Physical layer - Measurements (FDD)". [4] 3GPP TS 25.225: "Physical layer – Measurements (TDD)". [5] [6] 3GPP TS 25.430: "UTRAN Iub General Aspect and Principle". 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels [7] (FDD)". 3GPP TS 25.212: "Multiplexing and channel coding (FDD)". [8] 3GPP TS 25.213: "Spreading and modulation (FDD)". [9] [10] 3GPP TS 25.214: "Physical layer procedures (FDD)". ITU-T Recommendation X.691, (07/2002) "Information technology - ASN.1 encoding rules -[11] Specification of Packed Encoding Rules (PER)".
- [12] ITU-T Recommendation X.680, (07/2002) "Information Technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- ITU-T Recommendation X.681, (07/2002) "Information Technology Abstract Syntax Notation [13] One (ASN.1): Information object specification".
- [14] 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception". [15]
- 3GPP TS 25.427: "UTRAN Iur/Iub Interface User Plane Protocol for DCH Data Stream". [16]
- 3GPP TS 25.402: "Synchronisation in UTRAN Stage2". [17]
- 3GPP TS 25.331: "RRC Protocol Specification". [18]

| [19] | 3GPP TS25.221: "Physical channels and mapping of transport channels onto physical channels[TDD]". |
|------|--|
| [20] | 3GPP TS 25.223: "Spreading and modulation (TDD)". |
| [21] | 3GPP TS 25.224: "Physical Layer Procedures (TDD)". |
| [22] | 3GPP TS 25.133: "Requirements for support of Radio Resource management (FDD)". |
| [23] | 3GPP TS 25.123: "Requirements for support of Radio Resource management (TDD)". |
| [24] | 3GPP TS 25.435: "UTRAN Iub Interface: User Plane Protocols for Common Transport Channel Data Streams". |
| [25] | 3GPP TS 25.302: "Services Provided by the Physical Layer". |
| [26] | 3GPP TR 25.921: "Guidelines and Principles for Protocol Description and Error Handling". |
| [27] | ICD-GPS-200: "Navstar GPS Space Segment/Navigation User Interface". |
| [28] | RTCM-SC104: "RTCM Recommended Standards for Differential GNSS Service (v.2.2)". |
| [29] | IETF RFC 2460 "Internet Protocol, Version 6 (IPv6) Specification". |
| [30] | IETF RFC 768 "User Datagram Protocol", (8/1980) |
| [31] | 3GPP TS 25.434: "UTRAN Iub Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams ". |
| [32] | 3GPP TS 25.321: "MAC protocol specification". |
| [33] | 3GPP TS 25.306: "UE Radio Access capabilities". |
| [34] | 3GPP TS 25.222: "Multiplexing and Channel Coding (TDD)". |
| [35] | IETF RFC 2474 "Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers". |
| [36] | IETF RFC 2475 "An Architecture for Differentiated Services". |
| [37] | 3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode". |
| [38] | 3GPP TS 25.319: "Enhanced Uplink; Overall description; Stage 2". |
| [39] | Galileo OS Signal in Space ICD (OS SIS ICD), Draft 0, Galileo Joint Undertaking, May 23 rd , 2006. |
| [40] | 3GPP TR 25.905: "Feasibility study on improvement of the Multimedia Broadcast / Multicast Service (MBMS) in UTRAN" |
| [41] | IETF RFC 3376 "Internet Group Management Protocol, Version 3". |
| [42] | IETF RFC 3810 "Multicast Listener Discovery Version 2 (MLDv2) for IPv6". |
| [43] | IS-GPS-200, Revision D, Navstar GPS Space Segment/Navigation User Interfaces, March 7 th , 2006. |
| [44] | IS-GPS-705, Navstar GPS Space Segment/User Segment L5 Interfaces, September 22, 2005. |
| [45] | IS-GPS-800, Navstar GPS Space Segment/User Segment L1C Interfaces, March 31, 2008. |
| [46] | Specification for the Wide Area Augmentation System (WAAS), US Department of Transportation, Federal Aviation Administration, DTFA01-96-C-00025, 2001. |
| [47] | IS-QZSS, Quasi Zenith Satellite System Navigation Service Interface Specifications for QZSS, Ver.1.0, June 17, 2008. |

| [48] | Global Navigation Satellite System GLONASS Interface Control Document, Version 5, 2002. |
|------|---|
| [49] | 3GPP TS 25.308: "High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2" |
| [50] | 3GPP TS 36.133: "Requirements for support of radio resource management". |

3 Definitions, Symbols and Abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

CRNC Communication Context: The CRNC Communication Context contains the necessary information for the CRNC for communication with a specific UE. The CRNC Communication Context is identified by the CRNC Communication Context ID.

Elementary Procedure: The NBAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between the CRNC and the Node B.

An EP consists of an initiating message and possibly a response message.

Two kinds of EPs are used:

- Class 1: Elementary Procedures with response (success or failure).
- Class 2: Elementary Procedures without response.

For Class 1 EPs, the types of responses can be as follows:

Successful

- A signalling message explicitly indicates that the elementary procedure has been successfully completed with the receipt of the response.

Unsuccessful

- A signalling message explicitly indicates that the EP failed.

Class 2 EPs are considered always successful.

Node B Communication Context: The Node B Communication Context contains the necessary information for the Node B for communication with a specific UE. The Node B Communication Context is created by the Radio Link Setup procedure and deleted by the Radio Link Deletion procedure when deleting the last Radio Link within the Node B Communication Context. The Node B Communication Context is identified by the Node B Communication Context ID.

Prepared Reconfiguration: A Prepared Reconfiguration exists when the Synchronised Radio Link Reconfiguration Preparation procedure has been completed successfully. The Prepared Reconfiguration does not exist anymore only after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed. In particular, the Prepared Reconfiguration still exists if the object (e.g. Radio Link) concerned by the Synchronised Radio Link Reconfiguration (e.g. in the case of an HS-DSCH Setup) is removed, but the Node B Communication Context still exists.

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

A-GPS Assisted GPS

AICH Acquisition Indicator Channel
ALCAP Access Link Control Application Part
ASN.1 Abstract Syntax Notation One
BCCH Broadcast Control Channel

CCPCH Common Control Physical Channel

CFN Connection Frame Number

CM Compressed Mode CPICH Common Pilot Channel

CRNC Controlling Radio Network Controller

DCH Dedicated Channel
DGANSS Differential GANSS
DGPS Differential GPS

DL Downlink

DPCCH Dedicated Physical Control Channel
DPCH Dedicated Physical Channel
DPDCH Dedicated Physical Data Channel
DSCH Downlink Shared Channel
E-AGCH E-DCH Absolute Grant Channel

E-DCH Enhanced UL DCH

EGNOS European Geostationary Navigation Overlay Service
E-HICH E-DCH HARQ Acknowledgement Indicator Channel
E-PUCH Enhanced Uplink Physical Channel (TDD only)

E-RNTI E-DCH RNTI

E-RUCCH E-DCH Random Access Uplink Control Channel (TDD only)

E-TFCI E-DCH Transport Format Combination Indicator E-UCCH E-DCH Uplink Control Channel (TDD only)

FACH Forward Access Channel FDD Frequency Division Duplex

F-DPCH Fractional DPCH FP Frame Protocol

FPACH Fast Physical Access Channel (TDD only)
GAGAN GPS Aided Geo Augmented Navigation

GANSS Galileo and Additional Navigation Satellite Systems

GLONASS GLObal'naya NAvigatsionnaya Sputnikovaya Sistema (Engl.: Global Navigation Satellite System)

GNSS Global Navigation Satellite System
GPS Global Positioning System

HSDPA High Speed Downlink Packet Access HS-DSCH High Speed Downlink Shared Channel

HS-PDSCH High Speed Physical Downlink Shared Channel

HS-SCCH High Speed Shared Control Channel
HS-SICH High Speed Shared Information Channel

ICD Interface Control Document IMB Integrated Mobile Broadcast

IP Internet Protocol

IPDL Idle Periods in the DownLink ISCP Interference Signal Code Power

L1 Layer 1 L2 Layer 2

MBMS Multimedia Broadcast Multicast Service MBSFN MBMS over a Single Frequency Network

MFN Multicast Frame Number MIB Master Information Block

MICH MBMS Notification Indicator Channel

MSAS Multi-functional Satellite Augmentation System

NBAP Node B Application Part NI MBMS Notification Indicator O&M Operation and Maintenance

PCCPCH Primary Common Control Physical Channel

PCH Paging Channel

PDSCH Physical Downlink Shared Channel

PICH Paging Indication Channel

PLCCH Physical Layer Common Control Channel

PUSCH Physical Uplink Shared Channel QZSS Quasi-Zenith Satellite System RACH Random Access Channel

RL Radio Link RLS Radio Link Set

RNC Radio Network Controller RRC Radio Resource Control SB Scheduling Block

SBAS Satellite Based Augmentation System

SCCPCH Secondary Common Control Physical Channel

SCH Synchronisation Channel
SCTD Space Code Transmit Diversity
SIB System Information Block
Space Code Transmit Diversity
Signature Region Naturals Control

SRNC Serving Radio Network Controller STTD Space Time Transmit Diversity

TDD Time Division Duplex

TFC Transport Format Combination

TFCI Transport Format Combination Indicator
TFCS Transport Format Combination Set

TFS Transport Format Set TPC Transmit Power Control

TSTD Time Switched Transmit Diversity

UARFCN UTRA Absolute Radio Frequency Channel Number

UDP User Datagram Protocol

UE User Equipment

UL Uplink

UMTS Universal Mobile Telecommunications System

USCH Uplink Shared Channel
UTC Universal Coordinated Time
UTRA Universal Terrestrial Radio Access

UTRAN Universal Terrestrial Radio Access Network

WAAS Wide Area Augmentation System

4 General

4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the Node B exactly and completely. The CRNC functional behaviour is left unspecified. The Reset procedure is an exception from this principle.

The following specification principles have been applied for the procedure text in subclause 8:

- The procedure text discriminates between:
 - 1) Functionality which "shall" be executed

The procedure text indicates that the receiving node "shall" perform a certain function Y under a certain condition. If the receiving node supports procedure X but cannot perform functionality Y requested in the REQUEST message of a Class 1 EP, the receiving node shall respond with the message used to report unsuccessful outcome for this procedure, containing an appropriate cause value.

2) Functionality which "shall, if supported" be executed

The procedure text indicates that the receiving node "shall, if supported," perform a certain function Y under a certain condition. If the receiving node supports procedure X, but does not support functionality Y, the receiving node shall proceed with the execution of the EP, possibly informing the requesting node about the not supported functionality.

- Any required inclusion of an optional IE in a response message is explicitly indicated in the procedure text. If the procedure text does not explicitly indicate that an optional IE shall be included in a response message, the optional IE shall not be included. For requirements on including *Criticality Diagnostics* IE, see section 10. For examples on how to use the *Criticality Diagnostics* IE, see Annex C.

4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by a mechanism in which all current and future messages, and IEs or groups of related IEs, include Id and criticality fields that are coded in a standard format that will not be changed in the future. These parts can always be decoded regardless of the standard version.

4.3 Specification Notations

[7.68Mcps TDD - ...]

For the purposes of the present document, the following notations apply:

| 1 1 | |
|----------------|---|
| [FDD] | This tagging of a word indicates that the word preceding the tag "[FDD]" applies only to FDD. This tagging of a heading indicates that the heading preceding the tag "[FDD]" and the section following the heading applies only to FDD. |
| [TDD] | This tagging of a word indicates that the word preceding the tag "[TDD]" applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD. |
| [3.84Mcps TDD] | This tagging of a word indicates that the word preceding the tag "[3.84Mcps TDD]" applies only to 3.84Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[3.84Mcps TDD]" and the section following the heading applies only to 3.84Mcps TDD. |
| [1.28Mcps TDD] | This tagging of a word indicates that the word preceding the tag "[1.28Mcps TDD]" applies only to 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[1.28Mcps TDD]" and the section following the heading applies only to 1.28Mcps TDD. |
| [7.68Mcps TDD] | This tagging of a word indicates that the word preceding the tag "[7.68Mcps TDD]" applies only to 7.68Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[7.68Mcps TDD]" and the section following the heading applies only to 7.68Mcps TDD. |
| [FDD] | This tagging indicates that the enclosed text following the "[FDD - " applies only to FDD. Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs. |
| [TDD] | This tagging indicates that the enclosed text following the "[TDD - " applies only to TDD, including 3.84Mcps TDD, 7.68Mcps TDD and 1.28Mcps TDD. Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the TDD specific paragraphs. |
| [3.84Mcps TDD] | This tagging indicates that the enclosed text following the "[3.84Mcps TDD - " applies only to 3.84Mcps TDD. Multiple sequential paragraphs applying only to 3.84Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 3.84Mcps TDD specific paragraphs. |
| [1.28Mcps TDD] | This tagging indicates that the enclosed text following the "[1.28Mcps TDD - " applies only to 1.28Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 1.28Mcps TDD specific paragraphs. |

paragraphs between the 7.68Mcps TDD specific paragraphs.

This tagging indicates that the enclosed text following the "[7.68Mcps TDD - " applies

only to 7.68Mcps TDD. Multiple sequential paragraphs applying only to 7.68Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common)

[3.84Mcps TDD IMB -...] This tagging of a word indicates that the word preceding the tag "[3.84Mcps TDD

IMB]" applies only to 3.84Mcps TDD IMB. This tagging of a heading indicates that the heading preceding the tag "[3.84Mcps TDD IMB]" and the section following the heading

applies only to 3.84Mcps TDD IMB.

Procedure When referring to an elementary procedure in the specification the Procedure Name is

written with the first letters in each word in upper case characters followed by the word

"procedure", e.g. Radio Link Setup procedure.

Message When referring to a message in the specification the MESSAGE NAME is written with all

letters in upper case characters followed by the word "message", e.g. RADIO LINK

SETUP REQUEST message.

IE When referring to an information element (IE) in the specification the *Information Element*

Name is written with the first letters in each word in upper case characters and all letters in

Italic font followed by the abbreviation "IE", e.g. Transport Format Set IE.

Value of an IE When referring to the value of an information element (IE) in the specification the "Value"

is written as it is specified in subclause 9.2 enclosed by quotation marks, e.g. "Abstract

Syntax Error (Reject)".

5 NBAP Services

5.1 Parallel Transactions

Unless explicitly indicated in the procedure description, at any instance in time one protocol peer shall have a maximum of one ongoing dedicated NBAP procedure related to a certain Node B Communication Context.

6 Services Expected from Signalling Transport

NBAP requires an assured in-sequence delivery service from the signalling bearer, and notification if the assured in-sequence delivery service is no longer available.

7 Functions of NBAP

The NBAP protocol provides the following functions:

- Cell Configuration Management. This function gives the CRNC the possibility to manage the cell configuration information in a Node B.
- Common Transport Channel Management. This function gives the CRNC the possibility to manage the configuration of Common Transport Channels in a Node B.
- System Information Management. This function gives the CRNC the ability to manage the scheduling of System Information to be broadcast in a cell.
- Resource Event Management. This function gives the Node B the ability to inform the CRNC about the status of Node B resources.
- Configuration Alignment. This function gives the CRNC and the Node B the possibility to verify and enforce that both nodes have the same information on the configuration of the radio resources.
- Measurements on Common Resources. This function allows the CRNC to initiate measurements on common resources in the Node B. The function also allows the Node B to report the result of the measurements.
- Radio Link Management. This function allows the CRNC to manage radio links using dedicated resources in a Node B.

- Radio Link Supervision. This function allows the CRNC to report failures and restorations of a Radio Link.
- Compressed Mode Control [FDD]. This function allows the CRNC to control the usage of compressed mode in a Node B.
- Measurements on Dedicated Resources. This function allows the CRNC to initiate measurements on dedicated resources in the Node B. The function also allows the Node B to report the result of the measurements.
- DL Power Drifting Correction [FDD]. This function allows the CRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links.
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- Physical Shared Channel Management. This function allows the CRNC to manage physical resources in the Node B belonging to High Speed Downlink Shared Channels and High Speed Shared Control Channels [TDD and High Speed Shared Indication Channels and Shared Channels (USCH/DSCH)].
- DL Power Timeslot Correction [TDD]. This function enables the Node B to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.
- Cell Synchronisation [1.28 Mcps TDD and 3.84 Mcps TDD]. This function allows the synchronisation of cells or Node Bs via the air interface.
- Information Exchange. This function allows the CRNC to initiate information provision from the Node B. The function also allows the Node B to report the requested information.
- Bearer Rearrangement. This function allows the Node B to indicate the need for bearer re-arrangement for a Node B Communication Context. The function also allows the CRNC to re-arrange bearers for a Node B Communication Context.
- MBMS Notification. This function allows the CRNC to send MBMS Notification indicators to the Node B to be broadcasted in a cell.
- -UE Status Notification [FDD and 1.28 Mcps TDD]. This function allows the CRNC to update UE related information stored in the Node B.
- -Exchanging information about the secondary UL frequency. This function allows the CRNC to transfer information about the secondary UL frequency to the Node B and the Node B to transfer information about the secondary UL frequency to SRNC in Dual-Cell E-DCH operation.

The mapping between the above functions and NBAP elementary procedures is shown in the table below.

Table 1: Mapping between functions and NBAP elementary procedures

| Function | Elementary Procedure(s) |
|--|--|
| Cell Configuration Management | a) Cell Setup |
| | b) Cell Reconfiguration |
| | c) Cell Deletion |
| Common Transport Channel Management | a) Common Transport Channel Setup |
| | b) Common Transport Channel Reconfiguration c) Common Transport Channel Deletion |
| System Information Management | System Information Update |
| Resource Event Management | a) Block Resource |
| | b) Unblock Resource |
| | c) Resource Status Indication |
| Configuration Alignment | a) Audit Required |
| | b) Audit |
| Measurements on Common Resources | c) Reset a) Common Measurement Initiation |
| Measurements on Common Resources | b) Common Measurement Reporting |
| | c) Common Measurement Termination |
| | d) Common Measurement Failure |
| Radio Link Management. | a) Radio Link Setup |
| | b) Radio Link Addition |
| | c) Radio Link Deletion |
| | d) Unsynchronised Radio Link Reconfiguration |
| | e) Synchronised Radio Link Reconfiguration Preparation f) Synchronised Radio Link Reconfiguration Commit |
| | g) Synchronised Radio Link Reconfiguration Cancellation |
| | h) Radio Link Pre-emption |
| | i) Radio Link Activation |
| | j) Radio Link Parameter Update |
| Radio Link Supervision. | a) Radio Link Failure |
| 0 14 1 0 1 1550 | b) Radio Link Restoration |
| Compressed Mode Control [FDD] | a) Radio Link Setup b) Radio Link Addition |
| | c) Compressed Mode Command |
| | d) Unsynchronised Radio Link Reconfiguration |
| | e) Synchronised Radio Link Reconfiguration Preparation |
| | f) Synchronised Radio Link Reconfiguration Commit |
| | g) Synchronised Radio Link Reconfiguration Cancellation |
| Measurements on Dedicated Resources | a) Dedicated Measurement Initiation |
| | b) Dedicated Measurement Reporting c) Dedicated Measurement Termination |
| | d) Dedicated Measurement Failure |
| DL Power Drifting Correction [FDD] | Downlink Power Control |
| Reporting of General Error Situations | Error Indication |
| Physical Shared Channel Management | Physical Shared Channel Reconfiguration |
| DL Power Timeslot Correction [TDD] | Downlink Power Timeslot Control |
| Cell Synchronisation [1.28 Mcps TDD and 3.84 | a) Cell Synchronisation Initiation |
| Mcps TDD] | b) Cell Synchronisation Reconfiguration |
| | c) Cell Synchronisation Reporting d) Cell Synchronisation Termination |
| | e) Cell Synchronisation Termination e) Cell Synchronisation Failure |
| | f) Cell Synchronisation Adjustment |
| Information Exchange | a) Information Exchange Initiation |
| • | b) Information Reporting |
| | c) Information Exchange Termination |
| | d) Information Exchange Failure |
| Bearer Re-arrangement | a) Bearer Re-arrangement Indication |
| | b) Unsynchronised Radio Link Reconfiguration c) Synchronised Radio Link Reconfiguration Preparation |
| | d) Synchronised Radio Link Reconfiguration Commit |
| | e) Synchronised Radio Link Reconfiguration Cancellation |
| MBMS Notification | a) MBMS Notification Update |
| UE Status Notification [FDD and 1.28 Mcps | a) UE Status Update |
| TDD] | |
| Exchanging information about the secondary | a) Secondary UL Frequency Reporting |
| UL frequency | b) Secondary UL Frequency Update |

8 NBAP Procedures

8.1 Elementary Procedures

NBAP procedures are divided into common procedures and dedicated procedures.

- NBAP common procedures are procedures that request initiation of a Node B Communication Context for a specific UE in Node B or are not related to a specific UE. NBAP common procedures also incorporate logical O&M (TS 25.401 [1]) procedures.
- NBAP dedicated procedures are procedures that are related to a specific Node B Communication Context in Node B. This Node B Communication Context is identified by a Node B Communication Context identity.

The two types of procedures may be carried on separate signalling links.

In the following tables, all EPs are divided into Class 1 and Class 2 EPs:

Table 2: Class 1

| Elementary | Message | Successful Outcome | Unsuccessful Outcome |
|------------|---------|--------------------|----------------------|
| Procedure | | Response message | Response message |

| Elementary | Message | Successful Outcome | Unsuccessful Outcome |
|-------------------------------|------------------------------|---|---------------------------------|
| Procedure | eeeage | Response message | Response message |
| Cell Setup | CELL SETUP REQUEST | CELL SETUP RESPONSE | CELL SETUP FAILURE |
| Cell | CELL RECONFIGURATION | CELL RECONFIGURATION | CELL RECONFIGURATION |
| Reconfiguration | REQUEST | RESPONSE | FAILURE |
| Cell Deletion | CELL DELETION REQUEST | CELL DELETION RESPONSE | |
| Common | COMMON TRANSPORT | COMMON TRANSPORT | COMMON TRANSPORT |
| Transport | CHANNEL SETUP | CHANNEL SETUP RESPONSE | CHANNEL SETUP FAILURE |
| Channel Setup | REQUEST | | |
| Common | COMMON TRANSPORT | COMMON TRANSPORT | COMMON TRANSPORT |
| Transport Channel | CHANNEL RECONFIGURATION | CHANNEL RECONFIGURATION RESPONSE | CHANNEL RECONFIGURATION FAILURE |
| Reconfiguration | REQUEST | RESPONSE | RECONFIGURATION FAILURE |
| Common | COMMON TRANSPORT | COMMON TRANSPORT | |
| Transport | CHANNEL DELETION | CHANNEL DELETION | |
| Channel Deletion | REQUEST | RESPONSE | |
| Physical Shared | PHYSICAL SHARED | PHYSICAL SHARED CHANNEL | PHYSICAL SHARED |
| Channel | CHANNEL | RECONFIGURATION | CHANNEL |
| Reconfiguration | RECONFIGURATION | RESPONSE | RECONFIGURATION FAILURE |
| | REQUEST | | |
| Audit | AUDIT REQUEST | AUDIT RESPONSE | AUDIT FAILURE |
| Block Resource | BLOCK RESOURCE | BLOCK RESOURCE RESPONSE | BLOCK RESOURCE FAILURE |
| Desile Link Octor | REQUEST | DADIO LINIK OFTLID DECDONOS | DADIO LINIK CETUD EAULUDE |
| Radio Link Setup | RADIO LINK SETUP REQUEST | RADIO LINK SETUP RESPONSE | RADIO LINK SETUP FAILURE |
| System | SYSTEM INFORMATION | SYSTEM INFORMATION | SYSTEM INFORMATION |
| Information | UPDATE REQUEST | UPDATE RESPONSE | UPDATE FAILURE |
| Update | OF BATE REGOLOT | OF BATE RESI SINSE | OF BATE FAILURE |
| Common | COMMON MEASUREMENT | COMMON MEASUREMENT | COMMON MEASUREMENT |
| Measurement | INITIATION REQUEST | INITIATION RESPONSE | INITIATION FAILURE |
| Initiation | | | |
| Radio Link | RADIO LINK ADDITION | RADIO LINK ADDITION | RADIO LINK ADDITION |
| Addition | REQUEST | RESPONSE | FAILURE |
| Radio Link | RADIO LINK DELETION | RADIO LINK DELETION | |
| Deletion | REQUEST | RESPONSE | DADIO I INII |
| Synchronised | RADIO LINK | RADIO LINK | RADIO LINK |
| Radio Link Reconfiguration | RECONFIGURATION PREPARE | RECONFIGURATION READY | RECONFIGURATION FAILURE |
| Preparation | PREPARE | | |
| Unsynchronised | RADIO LINK | RADIO LINK | RADIO LINK |
| Radio Link | RECONFIGURATION | RECONFIGURATION | RECONFIGURATION FAILURE |
| Reconfiguration | REQUEST | RESPONSE | |
| Dedicated | DEDICATED | DEDICATED MEASUREMENT | DEDICATED MEASUREMENT |
| Measurement | MEASUREMENT | INITIATION RESPONSE | INITIATION FAILURE |
| Initiation | INITIATION REQUEST | | |
| Reset | RESET REQUEST | RESET RESPONSE | |
| Cell | CELL SYNCHRONISATION | CELL SYNCHRONISATION | CELL SYNCHRONISATION |
| Synchronisation | INITIATION REQUEST | INITIATION RESPONSE | INITIATION FAILURE |
| Initiation [TDD] | | | |
| Cell | CELL SYNCHRONISATION | CELL SYNCHRONISATION | CELL SYNCHRONISATION |
| Synchronisation | RECONFIGURATION | RECONFIGURATION | RECONFIGURATION FAILURE |
| Reconfiguration | REQUEST | RESPONSE | |
| [TDD] | | | |
| Cell | CELL SYNCHRONISATION | CELL SYNCHRONISATION | CELL SYNCHRONISATION |
| Synchronisation | ADJUSTMENT REQUEST | ADJUSTMENT RESPONSE | ADJUSTMENT FAILURE |
| Adjustment [TDD] Information | INFORMATION EXCHANGE | INFORMATION EXCHANGE | INFORMATION EXCHANGE |
| Exchange | INITIATION REQUEST | INITIATION EXCHANGE INITIATION RESPONSE | INITIATION FAILURE |
| Initiation | INTIATION REQUEST | INITIATION ILEGEORGE | INTIATIONTAILURE |
| | l . | <u>I</u> | 1 |

Table 3: Class 2

| Elementary Procedure | Message | |
|--|---|--|
| Resource Status Indication | | |
| Audit Required | RESOURCE STATUS INDICATION AUDIT REQUIRED INDICATION | |
| Common Measurement Reporting | | |
| Common Measurement Termination | COMMON MEASUREMENT REPORT | |
| Common Measurement Termination | COMMON MEASUREMENT TERMINATION | |
| Common Management Failure | REQUEST COMMON MEASUREMENT FAILURE | |
| Common Measurement Failure | INDICATION | |
| Synchronised Radio Link Reconfiguration | RADIO LINK RECONFIGURATION COMMIT | |
| Commit | RADIO LINK RECONFIGURATION COMMIT | |
| Synchronised Radio Link Reconfiguration | RADIO LINK RECONFIGURATION CANCEL | |
| Cancellation | RADIO LINK RECONFIGURATION CANCEL | |
| Radio Link Failure | RADIO LINK FAILURE INDICATION | |
| Radio Link Failure Radio Link Restoration | RADIO LINK FAILURE INDICATION RADIO LINK RESTORE INDICATION | |
| | DEDICATED MEASUREMENT REPORT | |
| Dedicated Measurement Reporting Dedicated Measurement Termination | DEDICATED MEASUREMENT REPORT DEDICATED MEASUREMENT TERMINATION | |
| Dedicated Measurement Termination | REQUEST | |
| Dedicated Measurement Failure | DEDICATED MEASUREMENT FAILURE INDICATION | |
| Downlink Power Control [FDD] | DL POWER CONTROL REQUEST | |
| Compressed Mode Command [FDD] | COMPRESSED MODE COMMAND | |
| Unblock Resource | UNBLOCK RESOURCE INDICATION | |
| Error Indication | ERROR INDICATION | |
| Downlink Power Timeslot Control [TDD] | DL POWER TIMESLOT CONTROL REQUEST | |
| Radio Link Pre-emption | RADIO LINK PREEMPTION REQUIRED | |
| , , , , , , , , , , , , , , , , , , , | INDICATION | |
| Cell Synchronisation Reporting [TDD] | CELL SYNCHRONISATION REPORT | |
| Cell Synchronisation Termination [TDD] | CELL SYNCHRONISATION TERMINATION REQUEST | |
| Cell Synchronisation Failure [TDD] | CELL SYNCHRONISATION FAILURE | |
| | INDICATION | |
| Information Reporting | INFORMATION REPORT | |
| Information Exchange Termination | INFORMATION EXCHANGE TERMINATION | |
| | REQUEST | |
| Information Exchange Failure | INFORMATION EXCHANGE FAILURE | |
| , and the second | INDICATION | |
| Bearer Re-arrangement | BEARER REARRANGEMENT INDICATION | |
| Radio Link Activation | RADIO LINK ACTIVATION COMMAND | |
| Radio Link Parameter Update | RADIO LINK PARAMETER UPDATE | |
| · | INDICATION | |
| MBMS Notification Update | MBMS NOTIFICATION UPDATE COMMAND | |
| UE Status Update [FDD and 1.28 Mcps | UE STATUS UPDATE COMMAND | |
| TDD] | | |
| Secondary UL Frequency Reporting | SECONDARY UL FREQUENCY REPORT | |
| Secondary UL Frequency Update | SECONDARY UL FREQUENCY UPDATE | |
| | INDICATION | |

8.2 NBAP Common Procedures

8.2.1 Common Transport Channel Setup

8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, AICH [FDD], FACH, PCH, MICH, RACH, E-RUCCH [3.84 Mcps and 7.68 Mcps TDD], PLCCH [1.28Mcps TDD] and FPACH [1.28Mcps TDD].

8.2.1.2 Successful Operation

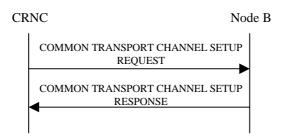


Figure 1: Common Transport Channel Setup procedure, Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD one Secondary CCPCH, and FACHs, PCH, PICH and MICH related to that Secondary CCPCH], or
- [TDD one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one [1.28Mcps TDD or more] PRACH, one RACH and one AICH [FDD] and one FPACH[1.28Mcps TDD] related to that PRACH, or
- one PLCCH [1.28Mcps TDD], or
- one E-RUCCH [3.84Mcps TDD and 7.68Mcps TDD].

Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[FDD - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FDD S-CCPCH Frame Offset* IE within the *Secondary CCPCH* IE, the Node B shall apply the indicated frame offset for the concerned Secondary CCPCH.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[3.84Mcps TDD and 7.68Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *TFCI Presence* IE, the Node B shall apply the indicated TFCI presence in the timeslot of the S-CCPCH. If all the S-CCPCHs defined in a timeslot do not have a *TFCI Presence* IE included, the Node B shall apply a TFCI field in the lowest numbered S-CCPCH of the timeslot.]

[TDD - FACHs and PCH may be mapped onto a CCTrCH which may consist of several Secondary CCPCHs]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FACH Parameters* IE, the Node B shall configure and activate the indicated FACH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PCH Parameters* IE, the Node B shall configure and activate the concerned PCH and the associated PICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - If the *PCH Power* IE is included in the *PCH Parameters* IE of the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall use this value as the power at which the PCH shall be transmitted.]

[TDD - If the *TSTD Indicator* IE for the S-CCPCH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall activate TSTD diversity for all S-CCPCHs defined in the message

that are not beacon channels (TS 25.221 [19], TS 25.224 [21]). If the *TSTD Indicator* IE is not included or is set to "not active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall not activate TSTD diversity for the S-CCPCHs defined in the message.]

[1.28Mcps TDD - If the *TSTD Indicator* IE for the PICH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall activate TSTD diversity for the PICH if it is not a beacon channel (TS 25.221 [19], TS 25.224 [21]). If the *TSTD Indicator* IE is set to "not active" or the TSTD Indicator IE is not included for the PICH in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall not activate TSTD diversity for the PICH.]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *MICH Parameters* IE, the Node B shall configure and activate the concerned MICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Modulation Power Offset* IE, in the *Secondary CCPCH* IE, the Node B shall apply the indicated modulation, and power offset in case of 16QAM, for the concerned Secondary CCPCH.]

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Extended Secondary CCPCH Slot Format* IE, in the *Secondary CCPCH* IE, the Node B shall ignore the *Secondary CCPCH Slot Format* IE and apply the slot format indicated in the *Extended Secondary CCPCH Slot Format* IE.]

[3.84Mcps TDD and 7.68Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Modulation* IE, the Node B shall apply the indicated modulation for the CCTrCH.]

[3.84Mcps TDD and 7.68Mcps TDD - If a timeslot has been configured for MBSFN operation then the contents of the [3.84Mcps TDD - *Midamble Shift and Burst Type* IE] [7.68Mcps TDD - *Midamble Shift and Burst Type* 7.68Mcps IE] shall be ignored and burst type 4, Kcell=1 shall be used (TS 25.221 [19]).]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the *MBSFN Special Time Slot LCR* IE indicates from CRNC to the Node B whether the channel is deployed on the MBSFN Special Time Slot for MBSFN only mode (TS 25.221 [19]).]

[1.28Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *UARFCN* IE in the *Secondary CCPCHs* IE, this Secondary CCPCH providing MBMS service in non-MBSFN only mode shall be setup on the secondary frequency indicated by the *UARFCN* IE.]

[3.84Mcps TDD IMB - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *IMB Parameters* IE within the *Secondary CCPCH* IE, the Node B shall apply 3.84Mcps MBSFN IMB operation.]

[3.84Mcps TDD IMB - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Last DL Channelisation Code Number* IE within the *IMB Parameters* IE, the Node B may use the indicated range of the DL channelizationn codes in the new configuration.]

PRACH:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PRACH* IE, the Node B shall configure and activate the indicated PRACH and the associated RACH [FDD - and the associated AICH] according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - The resource indicated by the *PRACH* IE is used for RACH random access as well as E-DCH random access. The way to differentiate the two access type on PRACH physical resource shall be operated according to TS 25.224 [21].]

[1.28Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *UARFCN* IE in the *PRACH* IE, the PRACH shall be set up on the secondary frequency indicated by the *UARFCN* IE.]

[1.28Mcps TDD - FPACH]:

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FPACH* IE, the Node B shall configure and activate the indicated FPACH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

Where more than one FPACH is defined, the FPACH that Node B should use is defined by the UpPCH signature $(SYNC_UL)$ code that the UE used. The FPACH number = N mod M where N denotes the signature number (0..7) and

M denotes the number of FPACHs that are defined in a cell. The FPACH number is in ascending order by *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the *FPACH* IE contains the *UARFCN* IE, the FPACH shall be set up on the secondary frequency indicated by the *UARFCN* IE.

When the FPACH is set up on the secondary frequency of a multi-frequency cell, if the *PRACH LCR* IE contains the *UARFCN* IE, the *RACH* IE included in the *PRACH LCR* IE shall be ignored; otherwise all IEs included in the *PRACH LCR* IE shall be ignored.

[1.28Mcps TDD - PLCCH]:

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PLCCH* IE, the Node B shall configure and activate the indicated PLCCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message when one or more of the PLCCH sequence numbers have been assigned to one or more radio links.]

[3.84Mcps TDD and 7.68Mcps TDD - E-RUCCH]:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the [3.84Mcps TDD - *E-RUCCH* IE] [7.68Mcps TDD - *E-RUCCH* 7.68Mcps IE], the Node B shall configure and activate the indicated E-RUCCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

RACH, FACH and PCH:

If the *TNL QoS* IE is included for a RACH, FACH or PCH and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related RACH, FACH or PCH.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Broadcast Reference* IE in the *FACH Parameters* IE, and one or more established FACH common transport channels with the same Broadcast Reference, the same Transport Format Set, the same ToAWS and the same ToAWE exist (all of them in other distinct cells within the Node B), the Node B may include the *Broadcast Common Transport Bearer Indication* IE in the *Common Transport Channel Information Response* IE in the COMMON TRANSPORT CHANNEL SETUP RESPONSE message to inform the CRNC that the existing transport bearer, identified by *Broadcast Common Transport Bearer Indication* IE, shall be used instead of establishing a new transport bearer.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Broadcast Reference* IE in the *FACH Parameters* IE and no common transport channel with the same Broadcast Reference, the same Transport Format Set, the same ToAWS and the same ToAWE exists in another cell within the Node B, or if the Node B decides to establish a new transport bearer, the Node B may store the value of *Broadcast Reference* IE.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *IP Multicast Indication* IE, and if supported, the Node B may join the indicated IP multicast group if it has not done so yet (IETF RFC 3376 [41] in case of IPv4, IETF RFC 3810 [42] in case of IPv6). If the Node B does join the IP multicast group, or is already joined to the IP multicast group as a result of a previous procedure, the Node B shall include the *IP Multicast Data Bearer Indication* IE in the COMMON TRANSPORT CHANNEL INFORMATION RESPONSE message to inform the CRNC that the existing IP multicast transport bearer, identified by *IP Multicast Indication* IE in the corresponding COMMON TRANSPORT CHANNEL SETUP REQUEST message, shall be used instead of using a IP unicast transport bearer. If the COMMON TRANSPORT CHANNEL INFORMATION RESPONSE message does not contain the *IP Multicast Data Bearer Indication* IE, the CRNC shall send FACH data frames on the IP unicast transport bearer. No matter whether the Node B has joined the indicated IP multicast group, a new transport bearer shall be established using the *Transport Layer Address* IE and *Binding ID* IE and FACH specific control frames, e.g. TIMING ADJUSTMENT, shall be sent on the established lub transport bearer.

General:

After successfully configuring the requested common transport channels and the common physical channels, the Node B shall store the value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the *Common Transport Channel ID* IE, the *Binding ID* IE (if no *Broadcast Common Transport Bearer Indication* IE is included) and the *Transport Layer Address* IE (if no *Broadcast Common Transport Bearer Indication* IE is included) for the configured common transport channels.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes the *Transport Layer Address* and *Binding ID* IEs, the Node B may use the transport layer adress and the binding identifier received from the CRNC when establishing a transport bearer for the indicated common transport channels.

After a successful procedure and once the transport bearers are established, the configured common transport channels and the common physical channels shall adopt the state Enabled (TS 25.430 [6]) in the Node B and the common physical channels exist on the Uu interface.

8.2.1.3 Unsuccessful Operation

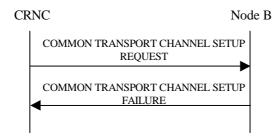


Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

Radio Network Layer Cause:

- Cell not available
- Power level not supported
- Node B Resources unavailable
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Common Transport Channel Type not supported
- MICH not supported

Transport Layer Cause:

- Transport Resources Unavailable

Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

8.2.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, and that IE contains [FDD - neither the *FACH Parameters* IE nor the *PCH Parameters* IE] [TDD - neither the *FACH* IE nor the *PCH* IE], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

[TDD - If the FACH CCTrCH Id IE or the PCH CCTrCH Id IE does not equal the SCCPCH CCTrCH Id IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[TDD - If the *TDD Physical Channel Offset* IE, the *Repetition Period* IE, and the *Repetition Length* IE are not equal for each SCCPCH configured within the CCTrCH or the *TFCI Presence* IE are not equal for any two SCCPCHs configured in the same timeslot, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the *Common Transport Channel ID* IE, and the *Transport Format Set* IE are not equal for each RACH configured in PRACH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the *UARFCN* IE in the *PRACH LCR* IE is not equal to the *UARFCN* IE in any other *PRACH LCR* IE configured on one RACH, or if the *UARFCN* IE in *PRACH LCR* IE is not equal to the *UARFCN* IE in *FPACH* IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

If the state is already Enabled or Disabled (TS 25.430 [6]) for at least one channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message which is received, the Node B shall reject the configuration of all channels with the *Cause* IE set to "Message not compatible with receiver state".

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *MICH Parameters* IE but not the *FACH Parameters* IE [FDD - for one S-CCPCH], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a *Broadcast Reference* IE value already associated to an existing FACH in the same cell, or if the message contains the same value for the *Broadcast Reference* IEs included in the *FACH Parameters* IEs for several FACHs in the list of FACHs defined on the Secondary CCPCH, the Node B shall reject the procedure, using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains both the *Broadcast Reference* IE and the *IP Multicast Indication* IE, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

[3.84Mcps TDD IMB - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *IMB Parameters* IE that includes the *Last DL Channelisation Code Number* IE and if the Secondary CCPCH Slot Format IE is set to "1", then the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.]

If ALCAP is not used, if the COMMON TRANSPORT CHANNEL SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *FACH Parameters* IE, *PCH Parameters* IE and/or [FDD-RACH Parameters][TDD - RACH] IE, then the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

8.2.2 Common Transport Channel Reconfiguration

8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.

8.2.2.2 Successful Operation

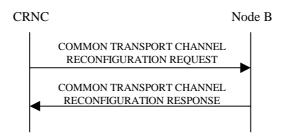


Figure 3: Common Transport Channel Reconfiguration, Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD FACHs, one PCH, one PICH and/or one MICH related to one Secondary CCPCH], or
- [TDD one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one RACH and/or one AICH[FDD] and/or one FPACH[1.28Mcps TDD] related to one PRACH,or
- [1.28Mcps TDD One UpPCH].

SCCPCH:

[TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *SCCPCH Power* IE, the Node B shall reconfigure the maximum power that the indicated S-CCPCH shall use.]

FACH:

If the FACH Parameters IE is present, the Node B shall reconfigure the indicated FACH(s).

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the indicated FACH shall use. In case a transport bearer is used by several FACH channels in different cells, the reconfiguration of the time of arrival window startpoint requested in one cell shall be applied to all these FACH channels.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the indicated FACH shall use. In case a transport bearer is used by several FACH channels in different cells, the reconfiguration of the time of arrival window endpoint requested in one cell shall be applied to all these FACH channels.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related FACH.

PCH:

If the PCH Parameters IE is present, the Node B shall reconfigure the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related PCH.

PICH:

If the PICH Parameters IE is present, the Node B shall reconfigure the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

MICH:

If the MICH Parameters IE is present, the Node B shall reconfigure the MICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *MICH Power* IE, the Node B shall reconfigure the power that the MICH shall use.

[FDD - PRACH]:

If the PRACH Parameters IE is present, the Node B shall reconfigure the indicated PRACH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Preamble Signatures* IE, the Node B shall reconfigure the preamble signatures that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Allowed Slot Format Information* IE, the Node B shall reconfigure the slot formats that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *RACH Sub Channel Numbers* IE, the Node B shall reconfigure the sub channel numbers that the indicated PRACH shall use.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related RACH.

[FDD - AICH]:

If the AICH Parameters IE is present, the Node B shall reconfigure the indicated AICH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the indicated AICH shall use.

[1.28Mcps TDD - FPACH]:

If the FPACH Parameters IE is included, the Node B shall reconfigure the indicated FPACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FPACH Power* IE, the Node B shall reconfigure the power that the FPACH shall use.

[1.28Mcps TDD - UpPCH]:

If the UpPCH Parameters IE is included, the Node B shall reconfigure the position of the UpPCH.

For a multi-frequency cell:

- If the *UpPCH Position LCR* IE and the *UARFCN* IE are included, and the indicated frequency is primary frequency, the Node B shall reconfigure the position of the UpPCH on the primary frequency.
- If the *UpPCH Position LCR* IE and the *UARFCN* IE are included, and the indicated frequency is a secondary frequency, the Node B shall configure or reconfigure the position of the UpPCH on the secondary frequency.
- If the *UpPCH Position LCR* IE is not included, the Node B may delete the UpPCH on the secondary frequency indicated by the *UARFCN* IE.

[1.28Mcps TDD - PLCCH]:

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max PLCCH Power* IE, the Node B shall reconfigure the power that the PLCCH shall use.

General:

After a successful procedure, the channels will have adopted the new configuration in the Node B. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The Node B shall store the value of *Configuration Generation ID* IE and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

8.2.2.3 Unsuccessful Operation



Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.

Typical cause values are as follows:

Radio Network Layer Cause:

- Cell not available
- Power level not supported
- Node B Resources unavailable

Transport Layer Cause:

- Transport Resources Unavailable

Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

8.2.2.4 Abnormal Conditions

[1.28Mcps TDD - For a single frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a single frequency cell, if the *UARFCN* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, and the frequency indicated by the *UARFCN* IE is primary frequency, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, and the frequency indicated by the *UARFCN* IE is secondary frequency on which the UpPCH is not configured, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

8.2.3 Common Transport Channel Deletion

8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels.

8.2.3.2 Successful Operation

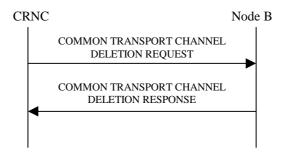


Figure 5: Common Transport Channel Deletion procedure, Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Secondary CCPCH:

If the *Common Physical Channel ID* IE or *Common Physical Channel ID 7.68Mcps* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a Secondary CCPCH, the Node B shall delete the indicated channel and the FACHs and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted. If an S-CCPCH is deleted, the MICH associated with that S-CCPCH shall also be deleted.

If the *Common Physical Channel ID* IE or *Common Physical Channel ID 7.68Mcps* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a common transport channel that is sharing a common transport bearer with other one or several common transport channels, the Node B shall delete the indicated channel but keep the common transport bearer which is shared by the remaining common transport channel(s).

If the *Common Physical Channel ID* IE or *Common Physical Channel ID* 7.68Mcps IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a common transport channel which is using an IP multicast transport bearer, the Node B shall leave the IP multicast group if this channel is the last one in the group (IETF RFC 3376 [41] in case of IPv4, IETF RFC 3810 [42] in case of IPv6).

PRACH:

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PRACH, the Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD - The AICH associated with the RACH shall also be deleted.]

[1.28Mcps TDD PLCCH:

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PLCCH, the Node B shall delete the indicated channel.]

General:

[TDD - If the requested common physical channel is a part of a CCTrCH, all common transport channels and all common physical channels associated with this CCTrCH shall be deleted.]

After a successful procedure, the channels are deleted in the Node B. The channels in the COMMON TRANSPORT CHANNEL DELETION REQUEST message shall be set to state Not Existing ref. TS 25.430 [6]. The Node B shall store the received value of the *Configuration Generation ID* IE and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

8.2.3.3 Unsuccessful Operation

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8.2.3.4 Abnormal Conditions

If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

8.2.4 Block Resource

8.2.4.1 General

The Node B initiates this procedure to request the CRNC to prohibit the usage of the specified logical resources.

The logical resource that can be blocked is a cell.

8.2.4.2 Successful Operation

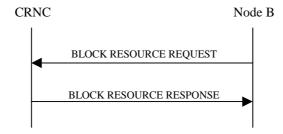


Figure 6: Block Resource procedure, Successful Operation

The procedure is initiated with a BLOCK RESOURCE REQUEST message sent from the Node B to the CRNC using the Node B Control Port.

Upon reception of the BLOCK RESOURCE REQUEST message, the CRNC shall prohibit the use of the indicated logical resources according to the *Blocking Priority Indicator* IE.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "High Priority", the CRNC shall prohibit the use of the logical resources immediately.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "Normal Priority", the CRNC shall prohibit the use of the logical resources if the resources are idle or immediately upon expiry of the shutdown timer specified by the *Shutdown Timer* IE in the BLOCK RESOURCE REQUEST message. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "Low Priority", the CRNC shall prohibit the use of the logical resources when the resources become idle. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the resources are successfully blocked, the CRNC shall respond with a BLOCK RESOURCE RESPONSE message. Upon reception of the BLOCK RESOURCE RESPONSE message, the Node B may disable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, if present the Secondary CPICH(s)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH. The other logical resources in the cell shall be considered as blocked.

Reconfiguration of logical resources and change of System Information can be done, even when the logical resources are blocked.

Interactions with the Unblock Resource procedure:

If the UNBLOCK RESOURCE INDICATION message is received by the CRNC while a Block Resource procedure on the same logical resources is in progress, the CRNC shall cancel the Block Resource procedure and proceed with the Unblock Resource procedure.

If the BLOCK RESOURCE RESPONSE message or the BLOCK RESOURCE FAILURE message is received by the Node B after the Node B has initiated an Unblock Resource procedure on the same logical resources as the ongoing Block Resource procedure, the Node B shall ignore the response to the Block Resource procedure.

8.2.4.3 Unsuccessful Operation

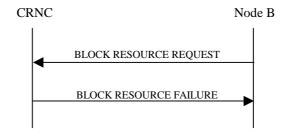


Figure 7: Block Resource procedure, Unsuccessful Operation

The CRNC may reject the request to block the logical resources, in which case the logical resources will remain unaffected and the CRNC shall respond to the Node B with the BLOCK RESOURCE FAILURE message. Upon reception of the BLOCK RESOURCE FAILURE message, the Node B shall leave the logical resources in the state that they were in prior to the start of the Block Resource procedure.

Typical cause values are as follows:

Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

Radio Network Layer Cause:

- Priority transport channel established

8.2.4.4 Abnormal Conditions

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8.2.5 Unblock Resource

8.2.5.1 General

The Node B initiates this procedure to indicate to the CRNC that logical resources are now unblocked.

The logical resource that can be unblocked is a cell.

8.2.5.2 Successful Operation



Figure 8: Unblock Resource procedure, Successful Operation

The procedure is initiated with an UNBLOCK RESOURCE INDICATION message sent from the Node B to the CRNC using the Node B Control Port. The Node B shall enable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH(s) (if present)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH that had been disabled due to the preceding Block Resource procedure before sending the UNBLOCK RESOURCE INDICATION message. Upon reception of the UNBLOCK RESOURCE INDICATION message, the CRNC may permit the use of the logical resources.

All physical channels and transport channels associated to the cell that is unblocked are also unblocked.

8.2.5.3 Abnormal Conditions

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8.2.6 Audit Required

8.2.6.1 General

The Node B initiates this procedure to request the CRNC to perform an audit of the logical resources at the Node B. This procedure is used to indicate a possible misalignment of state or configuration information.

8.2.6.2 Successful Operation



Figure 9: Audit Required procedure, Successful Operation

The procedure is initiated with an AUDIT REQUIRED INDICATION message sent from the Node B to the CRNC using the Node B Control Port.

If the Node B cannot ensure alignment of the state or configuration information, it should initiate the Audit Required procedure.

Upon receipt of the AUDIT REQUIRED INDICATION message, the CRNC should initiate the Audit procedure.

8.2.6.3 Abnormal Conditions

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8.2.7 Audit

8.2.7.1 General

This procedure is executed by the CRNC to perform an audit of the configuration and status of the logical resources in the Node B. A complete audit of a Node B is performed by one or more Audit procedures, together performing an audit sequence. The audit may cause the CRNC to re-synchronise the Node B to the status of logical resources known by the CRNC, that the Node B can support.

8.2.7.2 Successful Operation



Figure 10: Audit procedure, Successful Operation

The procedure is initiated with an AUDIT REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

If the *Start Of Audit Sequence Indicator* IE in the AUDIT REQUEST message is set to "start of audit sequence" a new audit sequence is started, any ongoing audit sequence shall be aborted and the Node B shall provide (part of the) audit information. If the *Start Of Audit Sequence Indicator* IE is set to "not start of audit sequence", the Node B shall provide (part of) the remaining audit information not already provided during this audit sequence.

If the information provided in the AUDIT RESPONSE message completes the audit sequence, the Node B shall set the *End Of Audit Sequence Indicator* IE in the AUDIT RESPONSE message to "End of Audit Sequence". If not all audit information has been provided yet as part of the ongoing audit sequence, the Node B shall set the *End Of Audit Sequence Indicator* IE in the AUDIT RESPONSE message to "Not End of Audit Sequence".

Information Provided In One Audit Sequence:

The Node B shall include one *Local Cell Information* IE for each local cell present in the Node B. The Node B shall include the *Maximum DL Power Capability* IE, the *Minimum Spreading Factor* IE and the *Minimum DL Power Capability* IE when any of those values are known by the Node B. The Node B shall include the *HSDPA Capability* IE set to "HSDPA Capable" and may include *HS-DSCH MAC-d PDU Size Capability* IE for every HSDPA-capable Local Cell. The Node B shall include the *E-DCH Capability* IE set to "E-DCH Capable" and may include *E-DCH MAC-d PDU Size Capability* IE for every E-DCH-capable Local Cell. The Node B shall include the *MBMS Capability* IE set to "MBMS Capable" for every MBMS-capable Local Cell. [FDD - The Node B shall include the *F-DPCH Capability* IE set to "F-DPCH Capability IE set to "Continuous Packet Connectivity *DTX-DRX Capability* IE set to "Continuous Packet Connectivity DTX-DRX is supported for every Local Cell that is both HSDPA-capable and E-DCH-capable.] [FDD - The Node B shall include the *Continuous Packet Connectivity HS-SCCH less Capability* IE set to "Continuous Packet Connectivity HS-SCCH less is supported for every Local Cell that is both HSDPA-capable and E-DCH-capable.] [FDD - The Node B shall include the

MIMO Capability IE set to "MIMO Capable" for every MIMO-capable Local Cell.] [FDD - The Node B shall include the SixtyfourQAM DL Capability IE set to "SixtyfourQAM DL Capable" for every SixtyfourQAM DL-capable Local Cell.] [FDD - The Node B shall include the Enhanced FACH Capability IE set to "Enhanced FACH Capable" for every Enhanced FACH-capable Local Cell.] [FDD - The Node B shall include the SixteenQAM UL Capability IE set to "SixteenQAM UL Capable" for every SixteenQAM UL-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the MBSFN Only Mode Capability IE set to "MBSFN Only Mode Capable" for every MBSFN Only Modecapable Local Cell.] [FDD - The Node B shall include the F-DPCH Slot Format Capability IE set to "F-DPCH Slot Format Capable" for every F-DPCH Slot Format-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the SixtyfourQAM DL Capable IE set to "SixtyfourQAM DL Capable" for every SixtyfourQAM DL-capable Local Cell.] [FDD - The Node B shall include the Common E-DCH Capability IE set to "Common E-DCH Capable" for every Common E-DCH capable Local Cell.] The Node B shall include the E-DPCCH Power Boosting Capability IE set to "E-DPCCH Power Boosting Capable " for every E-DPCCH Power Boosting -capable Local Cell. [FDD - The Node B shall include the SixtyfourQAM DL and MIMO Combined Capability IE set to "SixtyfourQAM DL and MIMO Combined Capable" when Combined SixtyfourQAM DL and MIMO is supported for every Local Cell that is both SixtyfourQAM DL-capable and MIMO-capable.][1.28Mcps TDD - The Node B shall include the Enhanced FACH Capability IE set to "Enhanced FACH Capable" for every Enhanced FACH-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the Enhanced PCH Capability IE set to "Enhanced PCH Capable" for every Enhanced PCHcapable Local Cell.] [1.28Mcps TDD - The Node B shall include the Enhanced UE DRX Capability LCR IE set to " Enhanced UE DRX Capable " for every Enhanced UE DRX Capable Local Cell.] [FDD - The Node B shall include the Multi Cell Capability Info IE and set the Multi Cell Capability IE value to "Multi Cell Capable" for every Multi Cell operation capable Local Cell, and if the cell can be the serving HS-DSCH then the possible cells to serve multiple adjacent carrier operation (TS 25.133 [22]) (same sector) that can act as secondary serving HS-DSCH shall be listed in the Possible Secondary Serving Cell List IE.] [1.28Mcps TDD - The Node B shall include the Semi-Persistent scheduling Capability LCR IE set to "Semi-Persistent scheduling Capable" for every semi-persistent scheduling Capable Local Cell.] [1.28Mcps TDD - The Node B shall include the Continuous Packet Connectivity DRX Capability LCR IE set to "Continuous Packet Connectivity DRX Capability Capable" for Continuous Packet Connectivity DRX Capability Capable Local Cell.] [1.28Mcps TDD- The Node B shall include the MIMO Capability IE set to "MIMO Capable" for every MIMO-capable Local Cell.] [1.28Mcps TDD- The Node B shall include the SixtyfourQAM DL and MIMO Combined Capability IE set to "SixtyfourQAM DL and MIMO Combined Capable" when Combined SixtyfourQAM DL and MIMO is supported for every Local Cell that is both SixtyfourQAM DL-capable and MIMOcapable.] [FDD - The Node B shall include the Enhanced UE DRX Capability IE set to " Enhanced UE DRX Capable" for every Enhanced UE DRX capable Local Cell.] [1.28Mcps TDD- The Node B shall include the Cell Portion Capability LCR IE set to "Cell Portion Capable" for every Cell Portion Capable Local Cell.] [FDD - The Node B shall include the MIMO Power Offset For S-CPICH Capability IE set to "S-CPICH Power Offset Capable " for every MIMO-capable Local Cell able to transmit S-CPICH at a power offset from P-CPICH.] [FDD - The Node B shall include the TX Diversity on DL Control Channels by MIMO UE Capability IE set to "DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable" for every MIMO-capable Local Cell able to support DL control channels in transmit diversity for MIMO UEs when when MIMO is active and P-CPICH is not transmitted in diversity mode (TS 25.211 [7]).] [FDD - The Node B shall include the Single Stream MIMO Capability IE set to "Single Stream MIMO Capable" for every Single Stream MIMO capable Local Cell.] [FDD - The Node B shall include the Dual Band Capability Info IE and set the Dual Band Capability IE value to "Dual Band Capable" for every Dual Band operation capable Local Cell, and if the cell can be the serving HS-DSCH then the possible cells to serve multiple dual band carrier operation (TS 25.133 [22]) (same sector) that can act as secondary serving HS-DSCH shall be listed in the Possible Secondary Serving Cell List IE.] [FDD - The Node B shall include the Cell Capability Container IE if the Local Cell is capable of at least one feature listed in 9.2.2.129 and indicate the capabilities listed in 9.2.2.129 for the local cell.][1.28Mcps TDD - The Node B shall include the TSO Capability LCR IE set to "TSO Capable" for every TSO Capable Local Cell.][FDD - For every MIMO-capable and/or Single Stream MIMO Capable Local Cell the Node B may include the Precoding Weight Set Restriction IE set to "Preferred", if configuration of the precoding weight set restriction defined in TS 25.331 [18] is preferred.] [1.28Mcps TDD - The Node B shall include the Adaptive Special Burst Power Capability LCR IE set to "Adaptive Special Burst Power Capable" for every Adaptive Special Burst Power Capable Local Cell.]

[TDD - The Node B shall include the *Reference Clock Availability* IE to indicate the availability of a Reference clock connected to the Local Cell.]

If the Node B internal resources are pooled for a group of cells, the Node B shall include one *Local Cell Group Information* IE containing the Node B internal resource capacity and the consumption laws per group of cells [FDD - , including also the *E-DCH Capacity consumption Law* IE, if E-DCH is supported] [TDD - , including also the *E-DCH TDD Capacity Consumption Law* IE, if E-DCH is supported]. If the *UL Capacity Credit* IE is not present in the *Local Cell Group Information* IE, then the internal resource capabilities of the Node B for the Local Cell Group are modelled as shared resources between Uplink and Downlink.

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include one *Power Local Cell Group Information* IE containing the Maximum DL Power Capability for each Power Local Cell Group for which this value is known by the Node B. In this case, the Node B shall also include the *Maximum DL Power Capability* IE in the *Local Cell Information* IE for all the Local Cells belonging to a Power Local Cell Group reported in the *Power Local Cell Group Information* IE. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

The Node B shall include, for each local cell present in the Node B, the Node B internal resource capability and consumption laws within the *Local Cell Information* IE [FDD - , including also the *E-DCH CapacityCconsumption Law*, if E-DCH is supported] [TDD - , including also the *E-DCH TDD Capacity Consumption Law* IE, if E-DCH is supported]. If the *UL Capacity Credit* IE is not present in the *Local Cell Information* IE, then the internal resource capabilities of the local cell are modelled as shared resources between Uplink and Downlink. If the Local Cell utilises Node B internal resource capabilities that are pooled for several Local Cell(s), the *Local Cell Group ID* IE shall contain the identity of the used Local Cell Group. If the Local Cell utilises Node B internal power resources that are pooled for several Local Cells, the *Power Local Cell Group ID* IE shall contain the identity of the concerned Power Local Cell Group.

The Node B shall include one *Cell Information* IE for each cell in the Node B and information about all common transport channels and all common physical channels for each cell. If a *Configuration Generation ID* IE for a cell can not be trusted, the Node B shall set this *Configuration Generation ID* IE = "0". The Node B shall include the *HS-DSCH Resources Information* IE for every Cell which has been configured with HS-DSCH resources. [FDD - The Node B shall include the *E-DCH Resources Information* IE for every Cell which has been configured with E-DCH resources.] [TDD - The Node B shall include the *E-DCH Resources Information* IE and the [3.84Mcps TDD - *E-RUCCH Information* IE] [7.68Mcps TDD - *E-RUCCH Information* 7.68Mcps IE] for every cell which has been configured with E-DCH resources.]

[1.28Mcps TDD - The Node B may include the *UpPCH Information LCR* IE for each frequency on which the UpPCH channel is not configured in the timeslot of UpPTS.]

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources for the whole cell.]

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources for the whole cell.]

The Node B shall also include one *Communication Control Port Information* IE for each Communication Control Port in the Node B.

[1.28Mcps TDD - For a multi-frequency cell, the Node B should report the status of the resources used for each frequency. A reporting method can be found in Annex E.]

8.2.7.3 Unsuccessful Operation



Figure 10A: Audit procedure, Unsuccessful Operation

If the Node B cannot perform an audit of the configuration and status of the logical resources, it shall send a AUDIT FAILURE message with the *Cause* IE set to an appropriate value.

8.2.7.4 Abnormal Conditions

If the Node B receives the AUDIT REQUEST message with the *Start Of Audit Sequence Indicator* IE set to "not start of audit sequence" and there is no ongoing audit sequence, the Node B shall send the AUDIT FAILURE message with the appropriate cause value.

8.2.8 Common Measurement Initiation

8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

8.2.8.2 Successful Operation

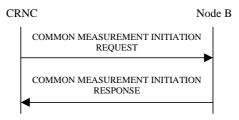


Figure 11: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

[TDD - If the [3.84Mcps TDD and 7.68Mcps TDD - *Time Slot IE*] [1.28Mcps TDD - *Time Slot LCR IE*] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

[1.28Mcps TDD - If *Time Slot LCR* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all the available time slots in the frequency.]

[1.28Mcps TDD - If the *Common Measurement Type* IE is not set to "HS-DSCH Provided Bit Rate" and *UARFCN* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all the frequencies in the cell.] [1.28Mcps TDD - If the *Common Measurement Type* IE is not set to "HS-DSCH Provided Bit Rate" and neither *UARFCN* IE nor *Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all time slots in all frequencies in which the measurements are applicable.]

[1.28Mcps TDD - If *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested additional time slots indicated in the *Additional Time Slot LCR* IE.]

[1.28Mcps TDD - If the *UpPCH Position LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, and the *Common Measurement Type* IE is set to "UpPCH interference", the measurement request shall apply to the requested UpPCH position individually.]

If the *Common Measurement Type* IE is not set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator* IE is set to "FN Reporting Required", the *SFN* IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value

was reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]). If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", the *SFN Reporting Indicator* IE shall be ignored.

[FDD - If the *Common Measurement Type* IE is set to "Received Scheduled E-DCH Power Share" and the *RTWP* Reporting Indicator* IE is set to "RTWP* Reporting Required", the *RTWP* Value* IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". This is the received total wideband power (RTWP) determined for the same time period during which RSEPS is determined.]

[FDD - If the *Common Measurement Type* IE is set to "Received Scheduled E-DCH Power Share for Cell Portion" and the *RTWP*for Cell Portion Reporting Indicator* IE is set to "RTWP* Reporting Required", the *RTWP* Value* IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand".]

[1.28Mcps TDD - For a multi-frequency cell, if *Common Measurement Type* IE is set to "HS-DSCH Provided Bit Rate", and the *UARFCN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the indicated frequency, if *Common Measurement Type* IE is set to "HS-DSCH Provided Bit Rate", and the *UARFCN* IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the whole cell.]

Common measurement type:

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID* IE and the neighbouring cells identified by the *UTRAN Cell Identifier(UC-Id)* IE in the *Neighbouring Cell Measurement Information* IE.

If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall initiate the UTRAN GANSS Timing of Cell Frames measurements using the GNSS system time identified by *GANSS Time ID* IE included in the COMMON MEASUREMENT INITIATION REQUEST message.

- If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the *GANSS Time ID* IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall assume that the corresponding GANSS time is "Galileo" system time.

[FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, or E-HICH transmission for Cell Portion"], "HS-DSCH Required Power for Cell Portion", "HS-DSCH Provided Bit Rate for Cell Portion"[1.28Mcps TDD - , "E-DCH Provided Bit Rate for Cell Portion", "UpPCH interference for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - " UL Timeslot ISCP for Cell Portion"], the Node B shall initiate the corresponding measurements for all the cell portions which are configured under the cell indicated by *C-ID* IE in the COMMON MEASUREMENT INITIATION REQUEST message.]

Report characteristics:

The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *SFN* IE is not provided, the Node B shall return the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]).

If the *Report Characteristics* IE is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE in the *SFN-SFN Measurement Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the Common Measurement Reporting procedure. If the *SFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]).

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or "HS-DSCH Required Power for Cell Portion"[1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-AGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or "HS-DSCH Required Power for Cell Portion"[1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD -"Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - " UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting. [FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" [1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or [FDD -"Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - " UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting. [FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion"[1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD -"Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - " UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion"[1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD -"Transmitted carrier power of all codes not used for HS-PDSCH,

HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or "HS-DSCH Required Power for Cell Portion" or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the Report Characteristics IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the Report Periodicity IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the Measurement Threshold 2 IE is not present, the Node B shall use the value of the Measurement Threshold 1 IE instead. If the Measurement Hysteresis Time IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the Common Measurement Type IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the Common Measurement Type IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" [1.28Mcps TDD or "UpPCH interference for Cell Portion"] or [FDD -"Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or "HS-DSCH Required Power for Cell Portion" or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"][1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]). Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

- 1. If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":
 - If the TUTRAN-GPS Change Limit IE is included in the TUTRAN-GPS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model (TS 25.302 [25]), calculate the change of TUTRAN-GPS value (Fn). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of Fn rises above the threshold indicated by the TUTRAN-GPS Change Limit IE. The change of TUTRAN-GPS value (Fn) is calculated according to the following:

$$F_n = 0 \text{ for } n = 0$$

$$F_n = (M_n - M_{n-1}) \text{ mod } 37158912000000 - ((SFN_n - SFN_{n-1}) \text{ mod } 4096) *10*3.84*10^3*16 + F_{n-1} \text{ for } n > 0$$

 F_n is the change of the $T_{UTRAN-GPS}$ value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received after point C in the measurement model (TS 25.302 [25]), measured at SFN_n.

 M_{n-1} is the previous measurement result received after point C in the measurement model (TS 25.302 [25]), measured at SFN_{n-1}.

 M_1 is the first measurement result received after point C in the measurement model (TS 25.302 [25]), after the first Common Measurement Reporting at initiation or after the last event was triggered.

 M_0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the Predicted TUTRAN-GPS Deviation Limit IE is included in the TUTRAN-GPS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model (TS 25.302 [25]), update the Pn and Fn The Node B shall initiate the Common

Measurement Reporting procedure and set n equal to zero when Fn rises above the threshold indicated by the Predicted TUTRAN-GPS Deviation Limit IE. The Pn and Fn are calculated according to the following:

$$P_n = b$$
 for $n = 0$

 $P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \bmod 4096)/100 + ((SFN_n - SFN_{n-1}) \bmod 4096) * 10*3.84*10^3*16 + P_{n-1}) \bmod 37158912000000 \qquad for n > 0$

 $F_n = min((M_n - P_n) \mod 37158912000000, (P_n - M_n) \mod 37158912000000)$ for n > 0

 P_n is the predicted $T_{UTRAN-GPS}$ value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T_{UTRAN-GPS} Drift Rate value.

b is the last reported $T_{UTRAN-GPS}$ value.

 F_n is the deviation of the last measurement result from the predicted $T_{\rm UTRAN\text{-}GPS}$ value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received after point C in the measurement model (TS 25.302 [25]), measured at SFN_n.

 M_1 is the first measurement result received after point C in the measurement model (TS 25.302 [25]), after the first Common Measurement Reporting at initiation or after the last event was triggered.

The $T_{UTRAN\text{-}GPS}$ Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model (TS 25.302 [25]).

- 2. If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference":
 - If the SFN-SFN Change Limit IE is included in the SFN-SFN Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model (TS 25.302 [25]), calculate the change of SFN-SFN value (Fn). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when Fn rises above the threshold indicated by the SFN-SFN Change Limit IE. The change of the SFN-SFN value is calculated according to the following:

$$F_n=0$$
 for $n=0$
$$[FDD - F_n = (M_n-a) \bmod 614400 \qquad for n>0]$$

$$[TDD - F_n = (M_n-a) \bmod 40960 \qquad for n>0]$$

 F_n is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN.

 M_n is the latest measurement result received after point C in the measurement model (TS 25.302 [25]), measured at SFN_n.

 M_1 is the first measurement result received after point C in the measurement model (TS 25.302 [25]) after the first Common Measurement Reporting at initiation or after the last event was triggered.

If the Predicted SFN-SFN Deviation Limit IE is included in the SFN-SFN Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model (TS 25.302 [25]), update the Pn and Fn The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when the Fn rises above the threshold indicated by the Predicted SFN-SFN Deviation Limit IE. The Pn and Fn are calculated according to the following:

```
P_n = b \text{ for } n = 0

[FDD - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + P_{n-1}) \mod 614400 for n > 0]
```

[FDD -
$$F_n = min((M_n - P_n) \mod 614400, (P_n - M_n) \mod 614400)$$
 for $n > 0$]

[TDD -
$$P_n = ((a/16) * (15*(SFN_n - SFN_{n-1}) \mod 4096 + (TS_n - TS_{n-1}))/1500 + P_{n-1}) \mod 40960$$
 for $n > 0$ 1

[TDD -
$$F_n = min((M_n - P_n) \mod 40960, (P_n - M_n) \mod 40960)$$
 for $n > 0$]

 P_n is the predicted SFN-SFN value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN Drift Rate value.

b is the last reported SFN-SFN value.

abs denotes the absolute value.

 F_n is the deviation of the last measurement result from the predicted SFN-SFN value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received after point C in the measurement model (TS 25.302 [25]), measured at [TDD - the Time Slot TS_n of] the Frame SFN_n.

M1 is the first measurement result received after point C in the measurement model (TS 25.302 [25]) after the first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model (TS 25.302 [25]).

- 3. If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning":
 - If the TUTRAN-GANSS Change Limit IE is included in the TUTRAN-GANSS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model (TS 25.302 [25]), calculate the change of TUTRAN-GANSS value (Fn). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of Fn rises above the threshold indicated by the TUTRAN-GANSS Change Limit IE. The change of TUTRAN-GANSS value (Fn) is calculated according to the following:

$$F_n=0$$
 for $n=0$

 F_n is the change of the $T_{\rm UTRAN\text{-}GANSS}$ value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 GAM_n is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at SFN_n .

 GAM_{n-1} is the previous GANSS measurement result received after point C in the GANSS measurement model, measured at SFN_{n-1}

 GAM_I is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

 GAM_0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

GANSS measurement model is the timing between cell j and GANSS Time Of Day. $T_{UE\text{-}GANSSj}$ is defined as the time of occurrence of a specified UTRAN event according to GANSS time. The specified UTRAN event is the beginning of a particular frame (identified through its SFN) in the first detected path (in time) of the cell j CPICH, where cell j is a cell chosen by the UE. The reference point for $T_{UE\text{-}GANSSj}$ shall be the antenna connector of the UE.

If the Predicted TUTRAN-GANSS Deviation Limit IE is included in the TUTRAN-GANSS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model (TS 25.302 [25]), update the Pn and Fn. The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when Fn rises above the threshold indicated by the Predicted TUTRAN-GANSS Deviation Limit IE. The Pn and Fn are calculated according to the following:

$$P_n = b$$
 for $n = 0$

 $P_n = ((a/16)*((SFN_n - SFN_{n-1}) \bmod 4096)/100 + ((SFN_n - SFN_{n-1}) \bmod 4096)*10*3.84*10^3*16 + P_{n-1}) \bmod 5308416000000 \qquad for \ n > 0$

 $F_n = min((GAM_n - P_n) \mod 5308416000000, (P_n - GAM_n) \mod 5308416000000)$ for n > 0

 P_n is the predicted $T_{UTRAN-GANSS}$ value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T_{UTRAN-GANSS} Drift Rate value.

b is the last reported $T_{UTRAN-GANSS}$ value.

 F_n is the deviation of the last measurement result from the predicted $T_{UTRAN-GANSS}$ value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 GAM_n is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at SFN_n .

 GAM_I is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

The $T_{UTRAN-GANSS}$ Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model (TS 25.302 [25]).

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Common Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

Higher layer filtering:

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows:

 F_n is the updated filtered measurement result

 F_{n-1} is the old filtered measurement result

 M_n is the latest received measurement result from physical layer measurements, the unit used for M_n is the same unit as the reported unit in the COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn)

 $a = 1/2^{(k/2)}$, where k is the parameter received in the *Measurement Filter Coefficient IE*. If the *Measurement Filter Coefficient IE* is not present, a shall be set to 1 (no filtering)

In order to initialise the averaging filter, F_0 is set to M_1 when the first measurement result from the physical layer measurement is received.

Common measurement accuracy:

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall use the *UTRAN GPS Timing Measurement Accuracy Class* IE included in the *Common Measurement Accuracy* IE according to the following:

- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall use the $T_{UTRAN-GANSS}$ Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:

- If the $T_{UTRAN-\ GANSS}$ Measurement Accuracy Class IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the $T_{UTRAN-\ GANSS}$ Measurement Accuracy Class IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the $T_{UTRAN-\ GANSS}$ Measurement Accuracy Class IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.2.9.2.

[FDD - Noise Floor Reporting:]

[FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power" and if the *Reference Received Total Wide Band Power Reporting* IE is included in the same COMMON MEASUREMENT INITIATION REQUEST message, the Node B may include the *Reference Received Total Wide Band Power* IE in the message used to report the common measurement.]

[FDD - If the *Reference Received Total Wide Band Power Reporting* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall if supported, include the *Reference Received Total Wide Band Power Support Indicator* IE or the *Reference Received Total Wide Band Power* IE in the COMMON MEASUREMENT INITIATION RESPONSE.]

Response message:

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Measurement ID that was used in the measurement request. Only in the case where the *Report Characteristics* IE is set to "On Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall include the measurement result and also the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" or "UTRAN GANSS Timing of Cell Frames for UE positioning".

[1.28Mcps TDD –If *Time Slot LCR* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all the available time slots in the frequency.]

[1.28Mcps TDD - If the *Common Measurement Type* IE is not set to "HS-DSCH Provided Bit Rate" and *UARFCN* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all the frequencies in the cell.]

[1.28Mcps TDD - If the *Common Measurement Type* IE is not set to "HS-DSCH Provided Bit Rate" and neither *UARFCN* IE nor *Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all available time slots in all frequencies.]

[1.28Mcps TDD - If *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of the additional time slot (s) should be included in the COMMON MEASUREMENT INITIATION RESPONSE message.]

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference" and the Report Characteristics IE is set to "On Demand" or "On Modification", all the available measurement results shall be reported in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE in the SFN-SFN Measurement Value Information IE and the Node B shall indicate in the Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE all the remaining neighbouring cells with no measurement result available in the COMMON MEASUREMENT INITIATION RESPONSE message. For all available measurement results, the Node B shall include in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE, if available.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", the Node B shall include in the $T_{UTRAN-GPS}$ *Measurement Value Information* IE the $T_{UTRAN-GPS}$ *Quality* IE and the $T_{UTRAN-GPS}$ *Drift Rate Quality* IE, if available.

[FDD and 1.28Mcps TDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", [FDD -"Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"][1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"], "HS-DSCH Required Power for Cell Portion" [1.28Mcps TDD – , "UL Timeslot ISCP for Cell Portion", "E-DCH Provided Bit Rate for Cell Portion", "UpPCH interference for Cell Portion"] or "HS-DSCH Provided Bit Rate for Cell Portion" and the *Report Characteristics* IE is set to "On Demand", all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT INITIATION RESPONSE message.]

If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", the Node B shall include in the $T_{UTRAN-GANSS}$ *Measurement Value Information* IE, the $T_{UTRAN-GANSS}$ *Quality* IE and the $T_{UTRAN-GANSS}$ *Drift Rate Quality* IE, if available.

8.2.8.3 Unsuccessful Operation

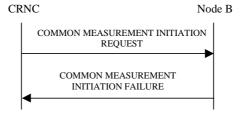


Figure 12: Common Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated [1.28Mcps TDD-in any time slot], the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message over the Node B Control Port. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Measurement not supported for the object.
- Measurement Temporarily not Available

8.2.8.4 Abnormal Conditions

The allowed combinations of the Common Measurement Type received in the *Common Measurement Type* IE and the Common Measurement Object Type received in the COMMON MEASUREMENT INITIATION REQUEST message are shown in the table below. For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.

Table 3a: Allowed Common Measurement Type and Common Measurement Object Type combinations

| Common Measurement Type | Common Measurement Object Type | | | | | | |
|-------------------------|--------------------------------|------|-------------------------|------------|--|--|--|
| | Cell | RACH | Power Local Cell | E-DCH RACH | | | |
| | | | Group | | | | |

| Received Total Wide Band Power | Х | | | |
|--|-----------|---|----------|---|
| Transmitted Carrier Power | X | | | |
| Acknowledged PRACH Preambles | | Х | | |
| E-DCH RACH Report | | | | X |
| UL Timeslot ISCP | Х | | | |
| UTRAN GPS Timing of Cell Frames for | X | | | |
| UE Positioning | | | | |
| SFN-SFN Observed Time Difference | Χ | | | |
| TDD - Transmitted carrier power of all | X | | | |
| codes not used for HS-PDSCH or HS- | | | | |
| SCCH transmission1 | | | | |
| [FDD - Transmitted carrier power of all | | | | |
| codes not used for HS-PDSCH, HS- | | | | |
| SCCH, E-AGCH, E-RGCH or E-HICH | | | | |
| transmission] | | | | |
| HS-DSCH Required Power | Х | | | |
| HS-DSCH Provided Bit Rate | Х | | | |
| Received Total Wide Band Power for | FDD and | | | |
| Cell Portion | 1.28Mcps | | | |
| | TDD only | | | |
| Transmitted Carrier Power for Cell | FDD and | | | |
| Portion | 1.28Mcps | | | |
| | TDD only | | | |
| Transmitted carrier power of all codes | FDD only | | | |
| not used for HS-PDSCH, HS-SCCH, E- | | | | |
| AGCH, E-RGCH or E-HICH transmission | | | | |
| for Cell Portion | | | | |
| UpPCH interference | 1.28 Mcps | | | |
| | TDD only | | | |
| DL Transmission Branch Load | FDD only | | FDD only | |
| HS-DSCH Required Power for Cell | FDD and | | | |
| Portion | 1.28Mcps | | | |
| | TDD only | | | |
| HS-DSCH Provided Bit Rate for Cell | FDD and | | | |
| Portion | 1.28Mcps | | | |
| | TDD only | | | |
| E-DCH Provided Bit Rate | X | | | |
| E-DCH Non-serving Relative Grant | FDD only | | | |
| Down Commands | | | | |
| Received Scheduled E-DCH Power | FDD only | | | |
| Share | | | | |
| Received Scheduled E-DCH Power | FDD only | | | |
| Share for Cell Portion | | | | |
| UTRAN GANSS Timing of Cell Frames | X | | | |
| for UE Positioning | | | | |
| UL Timeslot ISCP for Cell Portion | 1.28Mcps | | | |
| | TDD only | | | |
| Transmitted carrier power of all codes | 1.28Mcps | | | |
| not used for HS-PDSCH, HS-SCCH, E- | TDD only | | | |
| AGCH, or E-HICH transmission for Cell | | | | |
| Portion | 4.0014 | | | |
| E-DCH Provided Bit Rate for Cell Portion | 1.28Mcps | | | |
| Lin DOLL interference for Oall Double | TDD only | | | |
| UpPCH interference for Cell Portion | 1.28Mcps | | | |
| | TDD only | | | |

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD and 7.68Mcps TDD - *Time Slot IE*] [1.28Mcps TDD - *Time Slot LCR* IE] is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.]

[1.28Mcps TDD - For a multi-frequency cell, if the *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, only on-demand and period measurement could be used, otherwise, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the $T_{UTRAN-GPS}$ Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", but the $T_{UTRAN-GPS}$ Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", but the $T_{UTRAN-GANSS}$ Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

[FDD - If the COMMON MEASUREMENT INITIATION REQUEST message contains the *Reference Received Total Wide Band Power Reporting* IE and it does not contain the *Common Measurement Type* IE set to "Received Total Wide Band Power", the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.]

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.

Table 4: Allowed Common Measurement Type and Report Characteristics Type combinations

| Common | Report Characteristics Type | | | | | | | | |
|------------------|-----------------------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| Measurement Type | On | Periodic | Event A | Event B | Event C | Event D | Event E | Event F | On |
| | Demand | | | | | | | | Modification |

| | | | | | | - | | | |
|------------------------|---|---|----------|---|---|---|---|---|---|
| | X | X | X | X | X | X | X | X | |
| Band Power | | | | | | | | | |
| Transmitted Carrier | X | X | X | X | X | X | X | X | |
| Power | | | | | | | | | |
| Acknowledged | X | X | Χ | X | Χ | Χ | X | X | |
| PRACH Preambles | | | | | | | | | |
| E-DCH RACH Report | X | X | Χ | Χ | Χ | X | X | Χ | |
| UL Timeslot ISCP | X | X | Χ | Χ | Χ | Χ | Χ | Χ | |
| | X | X | | | | | | | X |
| of Cell Frames for UE | | | | | | | | | |
| Positioning | | | | | | | | | |
| SFN-SFN Observed | X | X | | | | | | | X |
| Time Difference | | | | | | | | | |
| [TDD - Transmitted | Х | X | Х | Х | Χ | Х | Χ | Χ | |
| carrier power of all | | | - | | | | | | |
| codes not used for | | | | | | | | | |
| HS-PDSCH or HS- | | | | | | | | | |
| SCCH transmission] | | | | | | | | | |
| [FDD - Transmitted | | | | | | | | | |
| carrier power of all | | | | | | | | | |
| codes not used for | | | | | | | | | |
| HS-PDSCH, HS- | | | | | | | | | |
| SCCH, E-AGCH, E- | | | | | | | | | |
| RGCH or E-HICH | | | | | | | | | |
| transmission] | | | | | | | | | |
| | X | X | X | X | | | X | X | |
| Power | ^ | ^ | ^ | ^ | | | ^ | ^ | |
| HS-DSCH Provided | X | X | | | | | | | |
| Bit Rate | ^ | ^ | | | | | | | |
| [FDD and 1.28Mcps | X | X | X | X | X | X | X | X | |
| | | ^ | ^ | ^ | ^ | ^ | ^ | ^ | |
| TDD - Received Total | | | | | | | | | |
| Wide Band Power for | | | | | | | | | |
| Cell Portion] | V | V | V | V | V | V | V | V | |
| [FDD and 1.28Mcps | X | X | X | X | X | X | X | X | |
| TDD - Transmitted | | | | | | | | | |
| Carrier Power for Cell | | | | | | | | | |
| Portion] | | | | | | | | | |
| [FDD - Transmitted | X | X | X | X | X | X | X | X | |
| carrier power of all | | | | | | | | | |
| codes not used for | | | | | | | | | |
| HS-PDSCH, HS- | | | | | | | | | |
| SCCH, E-AGCH, E- | | | | | | | | | |
| RGCH or E-HICH | | | | | | | | | |
| transmission for Cell | | | | | | | | | |
| Portion] | | | | | | | | | |
| UpPTS interference | X | X | X | X | X | X | X | X | |
| UpPCH interference | X | X | X | X | X | X | X | X | |
| for Cell Portion | | | | | | | | | |
| DL Transmission | X | X | X | X | | | X | X | |
| Branch Load | | | | | | | | | |
| [FDD and 1.28Mcps | X | X | X | X | | | X | X | |
| TDD - HS-DSCH | | | | | | | | | |
| Required Power for | | | | | | | | | |
| Cell Portion] | | | | | | | | | |
| [FDD and 1.28Mcps | X | X | | | | | | | |
| TDD - HS-DSCH | | | | | | | | | |
| Provided Bit Rate for | | | | | | | | | |
| Cell Portion] | | | | | | | | | |
| E-DCH Provided Bit | X | X | | | | | | | |
| Rate | | | <u> </u> | | | | | | |
| E-DCH Provided Bit | X | X | | | | | | | |
| Rate for Cell Portion | | | | | | | | | |
| E-DCH Non-serving | X | X | Χ | Χ | | | Χ | Χ | |
| Relative Grant Down | | | | | | | | | |
| Commands | | | | | | | | | |
| | X | X | X | Χ | X | X | Χ | X | |
| E-DCH Power Share | | | | | | | | | |
| | | | + | + | | + | | | |

| [FDD - Received | X | X | X | Χ | X | X | X | Х | |
|------------------------|---|---|---|---|---|---|---|---|---|
| Scheduled E-DCH | | | | | | | | | |
| Power Share for Cell | | | | | | | | | |
| Portion] | | | | | | | | | |
| UTRAN GANSS | X | X | | | | | | | X |
| Timing of Cell | | | | | | | | | |
| Frames for UE | | | | | | | | | |
| Positioning | | | | | | | | | |
| [1.28Mcps TDD - UL | X | X | X | X | X | X | X | X | |
| Timeslot ISCP for | | | | | | | | | |
| Cell Portion] | | | | | | | | | |
| [1.28Mcps TDD - | X | X | X | X | X | X | X | X | |
| Transmitted carrier | | | | | | | | | |
| power of all codes not | | | | | | | | | |
| used for HS-PDSCH, | | | | | | | | | |
| HS-SCCH, E-AGCH, | | | | | | | | | |
| or E-HICH | | | | | | | | | |
| transmission for Cell | | | | | | | | | |
| Portion] | | | | | | | | | |

If the *SFN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic", "On Demand" or "On Modification", the Node B shall regard the Common Measurement Initiation procedure as failed.

8.2.9 Common Measurement Reporting

8.2.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Common Measurement Initiation procedure.

8.2.9.2 Successful Operation



Figure 13: Common Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate the Common Measurement Reporting procedure. The COMMON MEASUREMENT REPORT message shall use the Node B Control Port.

The *Measurement ID* IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Common Measurement Initiation procedure.

[1.28Mcps TDD –If *Time Slot LCR* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all the available time slots in the frequency should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

[1.28Mcps TDD - If *UARFCN* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all the frequencies in the cell should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

[1.28Mcps TDD - If neither *UARFCN* IE nor *Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all available time slots in all frequencies should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

[1.28Mcps TDD - If *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of the additional time slot (s) should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref. TS 25.133 [22] and TS 25.123 [23]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the *Common Measurement Value Information* IE shall indicate Measurement not Available. If the Node B was configured to perform the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. TS 25.133 [22] and TS 25.123 [23]) and include the *Measurement Recovery Report Indicator* IE in the COMMON MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

For measurements included in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE, the Node B shall include the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE if available.

If the Common Measurement Type provided by RNC when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall include in the $T_{UTRAN-GPS}$ Measurement Value Information IE the $T_{UTRAN-GPS}$ Quality IE and the $T_{UTRAN-GPS}$ Drift Rate Quality IE, if available.

If the Common Measurement Type provided by RNC when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall include in the $T_{UTRAN-GANSS}$ Measurement Value Information IE the $T_{UTRAN-GANSS}$ Quality IE and the $T_{UTRAN-GANSS}$ Drift Rate Quality IE, if available.

[FDD and 1.28Mcps TDD - For Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, [FDD -Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion][1.28Mcps TDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion], HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate for Cell Portion[1.28Mcps TDD - , "E-DCH Provided Bit Rate for Cell Portion", "UpPCH interference for Cell Portion"], [FDD - Received Scheduled E-DCH Power Share for Cell Portion][1.28Mcps TDD - UL Timeslot ISCP for Cell Portion] measurements, all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT REPORT message.]

If the Common Measurement Object Type provided by RNC when initiating the measurement with the Common Measurement Initiation procedure was "Cell" or "RACH", then the Node B, if supported, shall include the *C-ID* IE in the COMMON MEASUREMENT REPORT message.

8.2.9.3 Abnormal Conditions

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8.2.10 Common Measurement Termination

8.2.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Common Measurement Initiation procedure.

8.2.10.2 Successful Operation



Figure 14: Common Measurement Termination procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate reporting of common measurements corresponding to the received *Measurement ID* IE.

8.2.10.3 Abnormal Conditions

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8.2.11 Common Measurement Failure

8.2.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Common Measurement Initiation procedure can no longer be reported.

8.2.11.2 Successful Operation



Figure 15: Common Measurement Failure procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the Node B Control Port, to inform the CRNC that a previously requested measurement can no longer be reported. The Node B has locally terminated the indicated measurement.

8.2.11.3 Abnormal Conditions

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8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in the Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in the Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful Operation

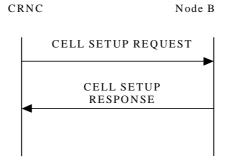


Figure 16: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The *Maximum Transmission Power* IE value shall be stored in the Node B and, at any instance of time, the total maximum output power in the cell shall not be above this value. [1.28Mcps TDD - For a multi-frequency cell, at any instance of time, the total maximum output power for each frequency of the cell shall not be above this value.]

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the *Reference SFN Offset* IE is included in the CELL SETUP REQUEST message, the Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node Bs shall ignore the *Reference SFN Offset* IE if included.]

[FDD - If the *IPDL Parameter Information* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref TS 25.214 [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the *IPDL Parameter Information* IE containing *IPDL TDD Parameters* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 3.84Mcps TDD and 7.68Mcps TDD modes shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref TS 25.224 [21].]

[1.28Mcps TDD - If the *IPDL Parameter Information LCR* IE containing *IPDL TDD Parameters LCR* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 1.28Mcps TDD mode shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. For MBSFN only mode, this IE shall be ignored by the Node B. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref TS 25.224 [21].]

[1.28Mcps TDD - For a multi-frequency cell, the *UARFCN Information LCR* IE indicates information about the configuration of the frequency and timeslot of the secondary frequency/frequencies.]

When the cell is successfully configured, the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured the CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD and 7.68Mcps TDD - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD / 7.68Mcps TDD frame structure are defined.] [1.28Mcps TDD - When the cell is successfully configured, the DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to the state Enabled (TS 25.430 [6]).

[1.28Mcps TDD - For a multi-frequency cell, the Node B shall consider the cell as having been successfully configured as long as the primary frequency is normally setup. When the cell is successfully configured, the Node B shall respond with the CELL SETUP RESPONSE message.]

[TDD - The Node B shall ignore the DPCH/PUSCH/PRACH Constant Value IEs.]

[1.28Mcps TDD - For a multi-frequency cell, when the cell is successfully configured, the Node B shall configure the UpPCH channel of the primary frequency in the timeslot of UpPTS.]

[FDD - If the CELL SETUP REQUEST message includes *Cell Portion Information* IE, the Node B shall associate *Associated Secondary CPICH* IE to the cell portion indicated by *Cell Portion ID* IE and the *Maximum Transmission Power for Cell Portion* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell portion indicated by *Cell Portion ID* IE shall not be above this value.]

[FDD - If the *MIMO Pilot Configuration* IE is included in the CELL SETUP REQUEST message, then the parameters defining the pilot configuration for MIMO shall be stored in the Node B and applied when MIMO mode is used according to TS 25.214 [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL SETUP REQUEST message includes the *MBSFN Cell Parameter ID* IE, then the Node B shall configure the associated timeslot to operate in MBSFN mode using the scrambling codes and midambles dictated by the *MBSFN Cell Parameter ID* IE.]

[1.28Mcps TDD - If the CELL SETUP REQUEST message includes the *MBSFN Only Mode Indicator* IE, the Node B shall configure the associated timeslot(s) to operate as MBSFN time slot(s) using the scrambling codes and basic midamble codes dictated by the *Time Slot Parameter ID* IE.]

[1.28Mcps TDD - If the cell is operating in MBSFN only mode, the *DwPCH Information* IE shall be ignored by the Node B.]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the PCCPCH shall be deployed on the MBSFN Special Time Slot (TS 25.221 [19]).]

[FDD - If the *MIMO Pilot Configuration Extension* IE is included in CELL SETUP REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to TS 25.214 [10]]

8.2.12.3 Unsuccessful Operation

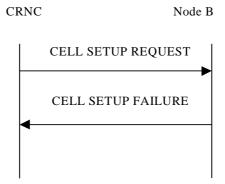


Figure 17: Cell Setup procedure: Unsuccessful Operation

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to the CRNC.

In this case, the cell is Not Existing in the Node B. The Configuration Generation ID shall not be changed in the Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Power level not supported
- Node B Resources unavailable
- IPDL not supported
- [FDD S-CPICH power offset support not available]

Miscellaneous Cause:

O&M Intervention

- Control processing overload
- HW failure

8.2.12.4 Abnormal Conditions

If the state of the cell already is Enabled or Disabled (TS 25.430 [6]) when the CELL SETUP REQUEST message is received in the Node B, it shall reject the configuration of the cell and all channels in the CELL SETUP REQUEST message by sending a CELL SETUP FAILURE message with the *Cause* IE set to "Message not compatible with receiver state".

If the Local Cell on which the cell is mapped does not belong to a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

8.2.13 Cell Reconfiguration

8.2.13.1 General

This procedure is used to reconfigure a cell in the Node B.

8.2.13.2 Successful Operation

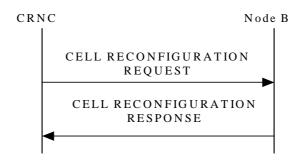


Figure 18: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE, the Node B shall reconfigure the Primary SCH power in the cell according to *Primary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE, the Node B shall reconfigure the Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE, the Node B shall reconfigure the Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power* IE value.]

[7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information 7.68Mcps* IE, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE, the Node B shall reconfigure the BCH power in the cell according to the *BCH Power* IE value.]

[1.28Mcps TDD and 3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *PCCPCH Information* IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CCPCH power according to the new value.]

[7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *PCCPCH Information* 7.68Mcps IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CCPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot* IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the $\it Time Slot Configuration LCR$ IE, the Node B shall reconfigure switching-point structure in the cell according to the $\it Time Slot LCR$ IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *DPCH/PUSCH/PRACH Constant Value* IEs, the Node B shall ignore them]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *DwPCH Information* IE, the Node B shall reconfigure the DwPCH power in the Cell according to the *DwPCH Power* IE.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active" the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL FDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref TS 25.214 [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref TS 25.224 [21].]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information LCR* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters LCR* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref TS 25.224 [21].]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with *the IPDL Indicator* IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the *N_INSYNC_IND*, *N_OUTSYNC_IND* and *T_RLFAILURE* IEs. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD - If the CELL RECONFIGURATION REQUEST message includes *Cell Portion Information* IE, the *Maximum Transmission Power for Cell Portion* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell portion indicated by *Cell Portion ID* IE shall not be above this value.]

[FDD - If the MIMO Pilot Configuration IE is included in the CELL RECONFIGURATION REQUEST message, then the parameters defining the pilot configuration for MIMO shall be stored in the Node B and applied when MIMO mode is used according to TS 25.214 [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *MBSFN Cell Parameter ID* IE, then the Node B shall configure the associated timeslot to operate in MBSFN mode using the scrambling code and midamble dictated by the *MBSFN Cell Parameter ID* IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *UARFCN Information To Add LCR* IE, the Node B shall reserve the necessary resource and add a secondary frequency to the cell according to the information indicated in the *UARFCN Information To Add LCR* IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *UARFCN Information To Modify LCR* IE, the Node B shall reconfigure the configuration of the secondary frequency within the cell according to the information indicated in the *UARFCN Information To Modify LCR* IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *UARFCN Information To Delete LCR* IE, the Node B shall remove the secondary frequency from the cell and any remaining dedicated channels on the secondary frequency according to the frequency information given in the *UARFCN Information To Delete LCR* IE. The states for the frequency within the cell shall be set to "Not existing". The Node B shall remove all Radio Links and all Node B Communication Contexts related to the secondary frequency within the cell. The Node B shall also initiate the release of the user plane transport bearers for the removed dedicated channels on the secondary frequency within the cell.]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the PCCPCH shall be deployed on the MBSFN Special Time Slot (TS 25.221 [19]).]

[FDD - If the *MIMO Pilot Configuration Extension* IE is included in CELL RECONFIGURATION REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to TS 25.214 [10].]

If the CELL RECONFIGURATION REQUEST message includes the *Dormant Mode Indicator* IE, the Node B shall initiate the requested function. If *Dormant Mode Indicator* IE = "Enter Dormant Mode", after completion of the reconfiguration to dormant mode there shall be no power transmitted in the cell. If the *Dormant Mode Indicator* IE = "Leave Dormant Mode", the Node B shall initiate reconfiguration of the cell and resume the normal operating mode.

8.2.13.3 Unsuccessful Operation

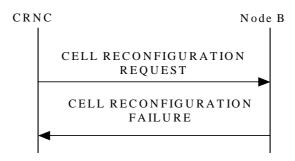


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message, the CELL RECONFIGURATION FAILURE message shall be sent to the CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in the Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Power level not supported
- Node B Resources unavailable
- IPDL not supported
- [FDD S-CPICH power offset support not available]
- [FDD Requested Configuration Not Supported]

Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

8.2.13.4 Abnormal Conditions

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL already activated".

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored in the Node B defining the IPDL, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL parameters not available".

If the Local Cell on which the cell is mapped does not belong to of a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

8.2.14 Cell Deletion

8.2.14.1 General

This procedure is used to delete a cell in the Node B.

8.2.14.2 Successful Operation

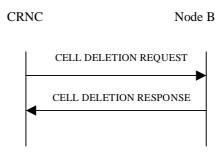


Figure 20: Cell Deletion procedure, Successful Operation

The procedure is initiated with a CELL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon reception, the Node B shall remove the cell and any remaining common and dedicated channels within the cell. The states for the cell and the deleted common channels shall be set to Not Existing (TS 25.430 [6]). The Node B shall remove all Radio Links from the Cell and all Node B Communication Contexts that as a result do not have a Radio Link. The Node B shall also initiate release of the user plane transport bearers for the removed common and dedicated channels except the case that there is at least one FACH channel in this cell using the same transport bearer existing in other cell(s) in the Node B. In this case, the Node B shall remove the cell and any remaining common and dedicated channels within the cell but keep the common transport bearer which is used by the remaining common transport channel(s) in other cell(s).

When the cell is deleted, the Node B shall send a CELL DELETION RESPONSE message as a response.

8.2.14.3 Unsuccessful Operation

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8.2.14.4 Abnormal Conditions

If the CELL DELETION REQUEST message includes a *C-ID* IE value that is not existing in the Node B, the Node B shall respond with the CELL DELETION RESPONSE message.

8.2.15 Resource Status Indication

8.2.15.1 General

This procedure is used in the following cases:

- 1. When a Local Cell becomes Existing at the Node B.
- 2. When a Local Cell is to be deleted in Node B, i.e. becomes Not Existing.
- 3. When the capabilities of the Local Cell change at the Node B.
- 4. When a cell has changed its capability and/or its resource operational state at the Node B.

- 5. When common physical channels and/or common transport channels have changed their capabilities at the Node B.
- 6. When a Communication Control Port has changed its resource operational state at the Node B.
- 7. When a Local Cell Group has changed its resource capability at the Node B.
- 8. [1.28Mcps TDD For a multi-frequency cell, when a cell has been successfully set up but a secondary frequency failure has occurred within the cell.]

Each of the above cases shall trigger a Resource Status Indication procedure and the RESOURCE STATUS INDICATION message shall contain the logical resources affected for that case and the cause value when applicable.

8.2.15.2 Successful Operation



Figure 21: Resource Status Indication procedure, Successful Operation

The procedure is initiated with a RESOURCE STATUS INDICATION message sent from the Node B to the CRNC using the Node B Control Port.

Local Cell Becomes Existing:

When a Local Cell becomes Existing at the Node B, the Node B shall make it available to the CRNC by sending a RESOURCE STATUS INDICATION message containing a "No Failure" Indication, the *Local Cell ID* IE and the *Add/Delete Indicator* IE set equal to "Add".

When the capacity credits and consumption laws are shared between several Local Cells, the Node B includes the *Local Cell Group ID* IE for the Local Cell. If the *Local Cell Group Information* IE has not already been reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include the capacity credits and the consumption laws in the *Local Cell Group Information* IE [FDD - , including also the E-DCH capacity consumption law, if E-DCH is supported].

If the Local Cell IE contains both the DL Or Global Capacity Credit IE and the UL Capacity Credit IE, then the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction. If the UL Capacity Credit IE is not present, then the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink. If the Local Cell Group Information IE contains both the DL Or Global Capacity Credit IE and the UL Capacity Credit IE, then the internal resource capabilities of the Local Cell Group are modelled independently in the Uplink and Downlink direction. If the UL Capacity Credit IE is not present, then the internal resource capabilities of the Local Cell Group are modelled as shared resources between Uplink and Downlink.

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include the *Power Local Cell Group ID* IE for the Local Cell. If the *Power Local Cell Group Information* IE has not already been reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include this IE for the concerned Power Local Cell Group in this message. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

If the Local Cell is HSDPA-capable when it becomes Existing, the Node B shall include the *HSDPA Capability* IE set to "HSDPA Capable" and may include *HS-DSCH MAC-d PDU Size Capability* IE for the Local Cell.

If the Local Cell is E-DCH-capable when it becomes Existing, the Node B shall include the *E-DCH Capability* IE set to "E-DCH Capable" and may include *E-DCH MAC-d PDU Size Capability* IE for the Local Cell.

If the Local Cell is MBMS-capable when it becomes Existing, the Node B shall include the *MBMS Capability* IE set to "MBMS Capable" for the Local Cell.

- [FDD If the Local Cell is F-DPCH-capable when it becomes Existing, the Node B shall include the *F-DPCH Capability* IE set to "F-DPCH Capable" for the Local Cell.]
- [FDD If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the *Continuous Packet Connectivity DTX-DRX Capability* IE set to "Continuous Packet Connectivity DTX-DRX Capable" for the Local Cell when Continuous Packet Connectivity DTX-DRX is supported.]
- [FDD If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the *Continuous Packet Connectivity HS-SCCH less Capability* IE set to "Continuous Packet Connectivity HS-SCCH less is supported.]
- [FDD If the Local Cell is MIMO-capable when it becomes Existing, then the Node B shall include the *MIMO Capability* IE set to "MIMO Capable" for the Local Cell.]
- [FDD If the Local Cell is SixtyfourQAM DL-capable when it becomes Existing, then the Node B shall include the *SixtyfourQAM DL Capability* IE set to "SixtyfourQAM DL Capable" for the Local Cell.]
- [FDD If the Local Cell is Enhanced FACH-capable when it becomes Existing, the Node B shall include the *Enhanced FACH Capability* IE set to "Enhanced FACH Capable" for the Local Cell.]
- [FDD If the Local Cell is SixteenQAM UL-capable when it becomes Existing, then the Node B shall include the *SixteenQAM UL Capability* IE set to "SixteenQAM UL Capable" for the Local Cell.]
- [1.28Mcps TDD If the Local Cell is MBSFN Only Mode-capable when it becomes Existing, the Node B shall include the MBSFN Only Mode Capability IE set to "MBSFN Only Mode Capable" for the Local Cell.]
- [FDD If the Local Cell is F-DPCH Slot Format-capable when it becomes Existing, then the Node B shall include the *F-DPCH Slot Format Capability* IE set to "F-DPCH Slot Format Capable" for the Local Cell.]
- [1.28Mcps TDD If the Local Cell is SixtyfourQAM DL-capable when it becomes Existing, then the Node B shall include the SixtyfourQAM DL Capability IE set to "SixtyfourQAM DL Capable" for the Local Cell.]
- [FDD If the Local Cell is Common E-DCH-capable when it becomes Existing, the Node B shall include the *Common E-DCH Capability* IE set to "Common E-DCH Capable" for the Local Cell.]
- If the Local Cell is E-DPCCH Power Boosting-capable when it becomes Existing, the Node B shall include the *E-DPCCH Power Boosting Capability* IE set to "E-DPCCH Power Boosting Capable" for the Local Cell.
- [FDD If the Local Cell is both SixtyfourQAM DL-capable and MIMO-capable when it becomes Existing, then the Node B shall include the *SixtyfourQAM DL and MIMO Combined Capability* IE set to "SixtyfourQAM DL and MIMO Combined Capable" for the Local Cell when Combined SixtyfourQAM DL and MIMO is supported.]
- [1.28Mcps TDD If the Local Cell is Enhanced FACH-capable when it becomes Existing, the Node B shall include the *Enhanced FACH Capability* IE set to "Enhanced FACH Capable" for the Local Cell.]
- [1.28Mcps TDD The Node B shall include the *Enhanced PCH Capability* IE set to "Enhanced PCH Capable" for every Enhanced PCH-capable Local Cell.]
- [1.28Mcps TDD The Node B shall include the *Enhanced UE DRX Capability LCR* IE set to "Enhanced UE DRX Capable "for every Enhanced UE DRX Capable Local Cell.]
- [FDD If the Local Cell is Multi Cell Capable when it becomes Existing, the Node B shall include the *Multi Cell Capability Info* IE and set the *Multi Cell Capability* IE value to "Multi Cell Capable" for the Local Cell, and if the cell can be the serving HS-DSCH then the possible cells to serve multicell adjacent carrier operation (TS 25.133 [22]) (same sector) that can act as secondary serving HS-DSCH shall be listed in the *Possible Secondary Serving Cell List* IE.]
- [1.28Mcps TDD If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the *Continuous Packet Connectivity DRX Capability LCR* IE set to "Continuous Packet Connectivity DRX Capable" for the Local Cell when Continuous Packet Connectivity DRX is supported.]
- [1.28Mcps TDD If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the *Semi-Persistent scheduling Capability LCR* IE set to "Semi-Persistent scheduling Capable" for the Local Cell when Semi-Persistent scheduling operation is supported.][1.28Mcps TDD- If the Local Cell is MIMO-capable when it becomes Existing, then the Node B shall include the *MIMO Capability* IE set to "MIMO Capable" for the Local Cell.]

[1.28Mcps TDD - If the Local Cell is both SixtyfourQAM DL-capable and MIMO-capable when it becomes Existing, then the Node B shall include the *SixtyfourQAM DL and MIMO Combined Capability* IE set to "SixtyfourQAM DL and MIMO Combined Capable" for the Local Cell when Combined SixtyfourQAM DL and MIMO is supported.]

[FDD - If the Local Cell is Enhanced UE DRX-capable when it becomes Existing, the Node B shall include the *Enhanced UE DRX Capability* IE set to "Enhanced UE DRX Capable" for the Local Cell.]

[1.28Mcps TDD- If the Local Cell is Cell Portion capable when it becomes Existing, then the Node B shall include the *Cell Portion CapabilityLCR* IE set to "Cell Portion Capable" for the Local Cell.]

[FDD - If the Local Cell is MIMO-capable and supports the MIMO Power Offset For S-CPICH Capability when it becomes Existing, the Node B shall include the *MIMO Power Offset For S-CPICH Capability* IE set to "S-CPICH Power Offset Capable" for the Local Cell.]

[FDD - If the Local Cell is MIMO-capable and supports DL control channels in transmit diversity for MIMO UEs (when MIMO is active and P-CPICH is not transmitted in diversity mode (TS 25.211 [7])) when it becomes Existing, the Node B shall include the *TX Diversity on DL Control Channels by MIMO UE Capability* IE set to "DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable".]

[FDD - If the Local Cell is Single Stream MIMO-capable when it becomes Existing, then the Node B shall include the *Single Stream MIMO Capability* IE set to "Single Stream MIMO Capable" for the Local Cell.]

[FDD - If the Local Cell is Dual Band Capable when it becomes Existing, the Node B shall include the *Dual Band Capability Info* IE and set the *Dual Band Capability* IE value to "Dual Band Capable" for the Local Cell. If the cell can be the serving HS-DSCH then the possible cells to serve dual band carrier operation (TS 25.133 [22]) (same sector) that can act as secondary serving HS-DSCH shall be listed in the *Possible Secondary Serving Cell List* IE.]

[FDD - If the local cell is capable of at least one feature listed in 9.2.2.129 when it becomes existing, the Node B shall include the *Cell Capability Container* IE and indicate the capabilities listed in 9.2.2.129 for the local cell.]

[1.28Mcps TDD - If the Local Cell is TS0-capable when it becomes Existing, the Node B shall include the *TS0 Capability LCR* IE set to "TS0 Capable" for every TS0 Capable Local Cell.]

[FDD - If the Local Cell, when it becomes Existing, is MIMO-capable and/or Single Stream MIMO-capable and configuration of the precoding weight set restriction defined in TS 25.331 [18] is preferred, the Node B may include the *Precoding Weight Set Restriction* IE set to "Preferred" for the Local Cell.]

[1.28Mcps TDD - If the Local Cell is Adaptive Special Burst Power Capable when it becomes Existing, the Node B shall include the *Adaptive Special Burst Power Capability LCR* IE set to "Adaptive Special Burst Power Capable" for every Adaptive Special Burst Power Capable Local Cell.]

Local Cell Deletion:

When a Local Cell is to be deleted in the Node B, i.e. becomes Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message containing a "No Failure" Indication, the *Local Cell ID* IE and the *Add/Delete Indicator* IE set to "Delete". The Node B shall not withdraw a previously configured cell at the Node B that the CRNC had configured using the Cell Setup procedure, until the CRNC has deleted that cell at the Node B using the Cell Delete procedure.

Capability Change of a Local Cell:

When the capabilities of a Local Cell change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the *Local Cell ID* IE.

The Node B shall include the Minimum DL Power Capability IE when it is known by the Node B.

If the maximum DL power capability of the Local Cell has changed, the new capability shall be indicated in the *Maximum DL Power Capability* IE.

If the DL capability for supporting the minimum spreading factor has changed, the new capability shall be indicated in the *Minimum Spreading Factor* IE.

[TDD - If the availability of the Reference clock connected to a Local Cell has changed, the new availability condition shall be indicated in the *Reference Clock Availability* IE.]

The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

If the internal resource capabilities of the Local Cell are affected, it shall be reported in the following way:

- If the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink, the new capacity shall be reported in the *DL Or Global Capacity Credit* IE.
- If the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction, then the *DL Or Global Capacity Credit* IE and the *UL Capacity Credit* IE shall be present in the RESOURCE STATUS INDICATION.

If the Capacity Consumption Law for Common Channels has changed for the Local Cell, the new law shall be reported by the Node B in the *Common Channels Capacity Consumption Law* IE.

If the Capacity Consumption Law for Dedicated Channels has changed for the Local Cell, the new law shall be reported by the Node B in the *Dedicated Channels Capacity Consumption Law* IE.

[FDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell, the new law shall be reported by the Node B in the *E-DCH Capacity Consumption Law* IE.]

[TDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell, the new law shall be reported by the Node B in the *E-DCH TDD Capacity Consumption Law* IE.]

If the HSDPA capability has changed for the Local Cell, the new capability shall be indicated in the HSDPA Capability IF

If the HS-DSCH MAC-d PDU Size Capability has changed for the Local Cell, the new capability shall be indicated in the *HS-DSCH MAC-d PDU Size Capability* IE.

If the E-DCH capability has changed for the Local Cell, the new capability shall be indicated in the *E-DCH Capability* IE. [FDD - The Node B shall include the *E-DCH Capability* IE if any of the E-DCH TTI2ms, SF or HARQ Combining capabilities has changed for the E-DCH capable Local Cell.]

If the E-DCH MAC-d PDU Size Capability has changed for the Local Cell, the new capability shall be indicated in the *E-DCH MAC-d PDU Size Capability* IE.

If the MBMS capability has changed for the Local Cell, the new capability shall be indicated in the MBMS Capability IF

[FDD - If the F-DPCH capability has changed for the Local Cell, the new capability shall be indicated in the *F-DPCH Capability* IE.]

[FDD - If the Continuous Packet Connectivity DTX-DRX capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the *Continuous Packet Connectivity DTX-DRX Capability* IE. The Node B shall include the *Continuous Packet Connectivity DTX-DRX Capability* IE if the Max UE DTX Cycle supported by the Continuous Packet Connectivity DTX-DRX capable Local Cell has changed. If the Continuous Packet Connectivity HS-SCCH less capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the *Continuous Packet Connectivity HS-SCCH less Capability* IE.]

[FDD - If the MIMO capability has changed for the Local Cell, then the new capability shall be indicated in the MIMO Capability IE.]

[FDD - If the SixtyfourQAM DL capability has changed for the Local Cell, then the new capability shall be indicated in the SixtyfourQAM DL Capability IE.]

[FDD - If the Enhanced FACH capability has changed for the Local Cell, the new capability shall be indicated in the *Enhanced FACH Capability* IE. The Node B shall include the *Enhanced FACH Capability* IE if the Enhanced PCH capability has changed for the Enhanced PCH capable Local Cell.]

[FDD - If the SixteenQAM UL capability has changed for the Local Cell, then the new capability shall be indicated in the SixteenQAM UL Capability IE.]

[1.28Mcps TDD - If the MBSFN Only Mode capability has changed for the Local Cell, the new capability shall be indicated in the MBSFN Only Mode Capability IE.]

[FDD - If the F-DPCH Slot Format capability has changed for the Local Cell, then the new capability shall be indicated in the *F-DPCH Slot Format Capability* IE.]

- [1.28Mcps TDD If the SixtyfourQAM DL capability has changed for the Local Cell, then the new capability shall be indicated in the SixtyfourQAM DL Capability IE.]
- [FDD If the Common E-DCH capability has changed for the Local Cell, the new capability shall be indicated in the *Common E-DCH Capability* IE. The Node B shall include the *Common E-DCH Capability* IE if the E-AI capability has changed for the Common E-DCH capable Local Cell. The Node B shall include the *Common E-DCH Capability* IE if the HS-DPCCH capability for Common E-DCH has changed for the Common E-DCH capable Local Cell.]
- If the Support for E-DPCCH Power Boosting Capability has changed for the Local Cell, the new capability shall be indicated in the *E-DPCCH Power Boosting Capability* IE.
- [FDD If the SixtyfourQAM DL and MIMO Combined capability has changed for the Local Cell that is both SixtyfourQAM DL-capable and MIMO-capable, then the new capability shall be indicated in the SixtyfourQAM DL and MIMO Combined Capability IE.]
- [1.28Mcps TDD If the Enhanced FACH capability has changed for the Local Cell, the new capability shall be indicated in the *Enhanced FACH Capability* IE. The Node B shall include the *Enhanced FACH Capability* IE if the Enhanced PCH capability has changed for the Enhanced PCH capable Local Cell.]
- [1.28Mcps TDD If the Enhanced PCH capability has changed for the local cell, the new capability shall be indicated in the *Enhanced PCH Capability* IE.]
- [1.28Mcps TDD If the Enhanced UE DRX capability has changed for the local cell, the new capability shall be indicated in the *Enhanced UE DRX Capability LCR* IE.]
- [FDD If the Multi Cell Capability and/or the list of possible secondary serving cells have changed for the Local Cell, the new capability including the list of possible secondary serving cells shall be indicated in the *Multi Cell Capability Info*.]
- [FDD If the Dual Band Capability and/or the list of possible secondary serving cells have changed for the Local Cell, the new capability including the list of possible secondary serving cells shall be indicated in the *Dual Band Capability* IE]
- [1.28Mcps TDD If the Continuous Packet Connectivity DRX capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the *Continuous Packet Connectivity DRX Capability LCR* IE. If the Semi-Persistent scheduling operation capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the *Semi-Persistent scheduling Capability LCR* IE.]
- [1.28Mcps TDD- If the MIMO capability has changed for the Local Cell, then the new capability shall be indicated in the *MIMO Capability* IE.]
- [1.28Mcps TDD– If the SixtyfourQAM DL and MIMO Combined capability has changed for the Local Cell that is both SixtyfourQAM DL-capable and MIMO-capable, then the new capability shall be indicated in the SixtyfourQAM DL and MIMO Combined Capability IE.]
- [FDD If the Enhanced UE DRX capability has changed for the Local Cell, the new capability shall be indicated in the *Enhanced UE DRX Capability* IE.]
- [1.28Mcps TDD- If the Cell Portion capability has changed for the Local Cell, the new capability shall be indicated in the $Cell\ Portion\ Capability LCR\ IE.$]
- [FDD If the support for MIMO Power Offset For S-CPICH Capability has changed for the Local Cell, the new capability shall be indicated in the MIMO Power Offset For S-CPICH Capability IE.]
- [FDD If the support for DL control channels in transmit diversity for MIMO UEs (when MIMO is active and P-CPICH is not transmitted in diversity mode (TS 25.211 [7])) has changed for the Local Cell, the new capability shall be indicated in the *TX Diversity on DL Control Channels by MIMO UE Capability* IE.]
- [FDD If the Single Stream MIMO capability has changed for the Local Cell, then the new capability shall be indicated in the *Single Stream MIMO Capability* IE.]
- [FDD If any of the capabilities indicated 9.2.2.129 has changed for the Local Cell, the new capabilities shall be indicated in the *Cell Capability Container* IE.]

[1.28Mcps TDD - If the TS0 capability has changed for the Local Cell, then the new capability shall be indicated in the TS0 Capability LCR IE.]

[FDD - If the preference regarding configuration of the precoding weight set restriction defined in TS 25.331 [18] has changed for the Local Cell, the new value shall be indicated in the *Precoding Weight Set Restriction* IE.]

[1.28Mcps TDD - If the Adaptive Special Burst Power capability has changed for the Local Cell, then the new capability shall be indicated in the *Adaptive Special Burst Power Capability LCR* IE.]

Capability Change of a Cell:

When the capabilities and/or resource operational state of a cell changes at the Node B, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication, the *Resource Operational State* IE and the *Availability Status* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

Capability Change of a Common Physical Channel and/or Common Transport Channel:

The Node B shall not delete any common or dedicated channels due to the cell being "Disabled". For all affected common and dedicated channels, the Node B shall report the impact to the CRNC with the relevant procedures.

When the capabilities and/or resource operational state of common physical channels and/or common transport channels have changed, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication, the *Resource Operational State* IE and the *Availability Status* IE set to appropriate values for the affected channel(s). The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When a power value for a common physical channel and/or a common transport channel becomes beyond the supported power value range due to a change in capability in the Node B, it shall be reported to the CRNC in the RESOURCE STATUS INDICATION message, with the *Resource Operational State* IE set to "Enabled", the *Availability Status* IE set to "Degraded" and the *Cause* IE set to "Power level not supported". Affected channels shall use the nearest power value that is supported.

[1.28Mcps TDD - Capability Change of a UpPCH channel:]

When the capabilities of UpPCH channels which are not configured in the timeslot of UpPTS on one or multiple frequencies have changed, the Node B may include the *UpPCH Information LCR* IE in the RESOURCE STATUS INDICATION message.

Capability Change of a Communication Control Port:

When the resource operational state of a Communication Control Port has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the *Communication Control Port ID* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

Capability Change of HS-DSCH Resources:

When the resource operational state of the HS-DSCH resources has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources for the whole cell.]

Capability Change of E-DCH Resources:

When the resource operational state of the E-DCH resources has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources on the indicated frequency, the Node B may also not include

any *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources for the whole cell.]

Capability Change of a Local Cell Group:

When the resource capabilities of a Local Cell Group change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the *Local Cell Group Information* IE reporting the change. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value. If the RESOURCE STATUS INDICATION message contains both the *DL Or Global Capacity Credit* IE and the *UL Capacity Credit* IE, then the internal resource capabilities of the Node B are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

If the Capacity Consumption Law for Common Channels has changed for the Local Cell Group, the new law shall be reported by the Node B in the *Common Channels Capacity Consumption Law* IE.

If the Capacity Consumption Law for Dedicated Channels has changed for the Local Cell Group, the new law shall be reported by the Node B in the *Dedicated Channels Capacity Consumption Law* IE.

[FDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell Group, the new law shall be reported by the Node B in the *E-DCH Capacity Consumption Law* IE.]

[TDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell Group, the new law shall be reported by the Node B in the *E-DCH TDD Capacity Consumption Law* IE.]

Capability Change of a Power Local Cell Group:

When the power capability of a Power Local Cell Group changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting" and the *Power Local Cell Group Information* IE reporting the change. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value. In this case, the Node B shall also include the *Maximum DL Power Capability* IE in the *Local Cell Information* IE for all the Local Cells belonging to the concerned Power Local Cell Group. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

[1.28Mcps TDD - For a multi-frequency cell, when a cell has been successfully setup but a secondary frequency failure has occurred, the Node B shall report the status of the secondary frequency indicated by *UARFCN* IE on which the failure occurred by immediately sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting", the *Resource Operational State* IE and the *Availability Status* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value.]

General:

When the RESOURCE STATUS INDICATION message is used to report an error, only one cause value for all reported objects can be sent in one message. When the RESOURCE STATUS INDICATION message is used to clear errors, only all errors for one object can be cleared per message. It is not possible to clear one out of several errors for one object.

[1.28Mcps TDD - For a multi-frequency cell, the Node B should report the status of the resources used for each frequency. A reporting method can be found in Annex E.]

8.2.15.3 Abnormal Conditions

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8.2.16 System Information Update

8.2.16.1 General

The System Information Update procedure performs the necessary operations in order for the Node B to apply the correct scheduling of and/or to include the appropriate contents to the system information segments broadcast on the BCCH.

8.2.16.2 Successful Operation

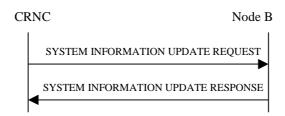


Figure 22: System Information Update procedure, Successful Operation

The procedure is initiated with a SYSTEM INFORMATION UPDATE REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

The Node B shall consider the requested updates to the BCCH schedule in the same order as the MIB/SB/SIB information is included in the SYSTEM INFORMATION UPDATE REQUEST message.

If the SYSTEM INFORMATION UPDATE REQUEST message includes the *BCCH Modification Time* IE, the updates to the BCCH schedule (possibly consisting of IB occurrence additions, IB occurrence deletions and IB occurrence contents updates) indicated in the SYSTEM INFORMATION UPDATE REQUEST message shall be applied by the Node B at the first time instance starting from the SFN value set by the *BCCH Modification Time* IE. If no *BCCH Modification Time* IE is included, the updates to the BCCH schedule shall be applied as soon as possible.

Information Block addition:

If the SYSTEM INFORMATION UPDATE REQUEST message includes segments of a certain MIB/SB/SIB, the Node B shall assume that all segments for that Information Block are included in the message and ordered with increasing Segment Index (starting from 0). For each included segment, segment type information and *IB SG POS* IE are also given in the SYSTEM INFORMATION UPDATE REQUEST message.

The Node B shall determine the correct cell system frame number(s) (SFN) for transmission of the segments of system information, from the scheduling parameters provided in the SYSTEM INFORMATION UPDATE REQUEST message. The SFN for transmitting the segments shall be determined by the *IB SG REP* IE and *IB SG POS* IE such that:

SFN mod IB_SG_REP = IB_SG_POS

If the SYSTEM INFORMATION UPDATE REQUEST message contains Master Information Block (MIB) segments in addition to SIB or SB segments, the MIB segments shall first be sent in the physical channel by the Node B. Once these MIB segments have been sent in the physical channel, the updated SB/SIB segments shall then be sent in the physical channel.

Only if the inclusion of each new IB segment in the BCCH schedule leads to a valid segment combination according to TS 25.331 [18], the Node B shall accept the system information update.

If the *SIB Originator* IE value is set to "Node B", the Node B shall create the SIB segment of the SIB type given by the *IB Type* IE and autonomously update the SIB segment and apply the scheduling and repetition as given by the *IB SG REP* IE and *IB SG POS* IE.

SIBs originating from the Node B can only be SIBs containing information that the Node B can obtain on its own.

Information Block deletion:

If an IB Deletion is indicated in an instance of *MIB/SB/SIB information* IE in the SYSTEM INFORMATION UPDATE REQUEST message, the Node B shall delete the IB indicated by the *IB Type* IE and *IB OC ID* IE from the transmission schedule on BCCH.

Information Block update:

If the SYSTEM INFORMATION UPDATE REQUEST message contains segments for an IB without *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB segments are included, then the Node B shall only update the contents of the IB segments without any modification in segment scheduling.

If the Node B successfully completes the updating of the physical channel scheduling cycle according to the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond to the CRNC with a SYSTEM INFORMATION UPDATE RESPONSE message.

8.2.16.3 Unsuccessful Operation

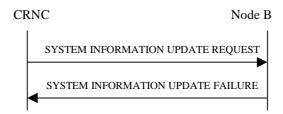


Figure 23: System Information Update procedure, Unsuccessful Operation

If the Node B is unable to update the physical channel scheduling cycle according to all the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond with a SYSTEM INFORMATION UPDATE FAILURE message with an appropriate cause value.

The Node B shall not incorporate any of the requested changes into the physical channel scheduling cycle, and the previous system information configuration shall remain intact.

Typical cause values are:

Radio Network Layer Cause:

- SIB Origination in Node B not Supported

Miscellaneous Cause:

- Hardware failure
- Control Processing overload
- O&M Intervention

8.2.16.4 Abnormal Conditions

The Node B shall reject, with the cause value "SIB origination in Node B not supported", requests for Node B originated system information blocks that make use of a value tag.

The Node B shall reject the requested update with cause value "BCCH scheduling error" if:

- After having handled a certain MIB/SB/SIB information IE repetition, an illegal BCCH schedule results;
- If a MIB/SB/SIB Information IE repetition includes an IB SG REP IE or an IB SG POS IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SB/SIB information IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated. This rule shall apply even if the scheduling instructions in IB SG REP IE and IB SG POS IE were the same as the current scheduling instructions for the concerned IB;
- If a *MIB/SB/SIB Information* IE repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is no IB in the BCCH schedule with the same IB Type and IB OC ID;
- If a *MIB/SB/SIB Information* IE repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated.

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B

[FDD - The Radio Link Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of an HS-DSCH on one radio link and it can include the establishment of an E-DCH on one or more radio links.]

[TDD - The Radio Link Setup procedure is used to establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, or DCHs and an HS-DSCH, or DCHs, an HS-DSCH and an E-DCH, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation



Figure 24: Radio Link Setup procedure, Successful Operation

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception of the RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK SETUP REQUEST message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

Transport Channels Handling:

DCH(s):

[TDD - If the *DCH Information* IE is present, the Node B shall configure the new DCH(s) according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. TS 25.427 [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. TS 25.427 [16].]

For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. TS 25.427 [16]. [FDD - If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. TS 25.427 [16]. If all DCHs have *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. TS 25.427 [16]].

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new RL(s) has been activated.

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not.

- If the Diversity Control Field IE is set to "May", the Node B shall decide for either of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

The signalled *Diversity Control Field* IE is applied to Dedicated Transport Channels (DCH) only. In case of E-DCH it shall always be assumed to be set to "Must". When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

[FDD - In the RADIO LINK SETUP RESPONSE message, the Node B shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE
 message or for the first RL in the RADIO LINK SETUP RESPONSE message, and if the DCH Indicator
 For E-DCH-HSDPA Operation IE is not included in the RADIO LINK SETUP REQUEST message, the
 Node B shall:]
 - [FDD include in the *DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message for which the *Transport Bearer Not Requested Indicator* IE was not included the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]
 - [FDD include in the RADIO LINK SETUP RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK SETUP REQUEST message.]
- [FDD For the first E-DCH RL in the RADIO LINK SETUP RESPONSE message, the Node B shall:]

- [FDD include in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each E-DCH MAC-d flow of this RL.]
- [FDD include in the RADIO LINK SETUP RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every E-DCH MAC-d flow for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK SETUP REQUEST message.]
- [FDD Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined and if the ALCAP is not used and the transport bearer for the DCH is already established, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK SETUP REQUEST message, shall not be used. In case of combining an E-DCH RL, one of the RLs previously listed in this RADIO LINK SETUP RESPONSE message including the *E-DCH FDD Information Response* IE shall be regarded as the RL with which the concerned E-DCH RL is combined.]

[TDD - The Node B shall include in the *DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

[TDD - If an E-DCH has been established, the Node B shall include in the *E-DCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each E-DCH MAC-d flow of the RL.]

In the case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be specified for only one of the DCHs in the set of co-ordinated DCHs [FDD - where the *Transport Bearer Not Requested Indicator* IE was not included].

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH, then the Node B shall not establish a transport bearer for the concerned DCH and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH, the Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

[TDD - DSCH(s)]:

[TDD - If the *DSCH Information* IE is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *DSCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DSCH.]

[TDD - The Node B shall include in the *DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and the *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *DSCH TDD Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[TDD - USCH(s)]:

[TDD - If the *USCH Information* IE is present, the Node B shall configure the new USCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *USCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the USCH.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *USCH Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD -If the *USCH Information* IE is present, the Node B shall include in the *USCH Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

HS-DSCH:

If the HS-DSCH Information IE is present in the RADIO LINK SETUP REQUEST message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message. [FDD The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28Mcps TDD- The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- If the RADIO LINK SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK SETUP RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If RADIO LINK SETUP REQUEST message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the

values of the corresponding peer received in RADIO LINK SETUP REQUEST in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.

- [FDD If the RADIO LINK SETUP REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref TS 25.214 [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *HS-SICH SIR Target* IE in the *HS-DSCH Information* IE, the Node B shall use this value to determine the HS-SICH SIR Target. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels (TS 25.435 [24]) and MAC-hs (3GPP TS 25.321 [32]).
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD If the RADIO LINK SETUP REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK SETUP RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B may use:]
 - [FDD a different HS-SCCH in consecutive TTIs for this UE]
 - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE the Node B may use the supported HSDPA functions for this UE.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the *TSN-Length* IE is included in the *HS-DSCH TDD Information* IE, then the IE is used to indicate the TSN bits applied to the MAC-hs PDU frame.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK SETUP REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *UE TSO Capability LCR* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple carriers and include the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to apply HSDPA resources distributed over multiple carriers, the Node B may indicate the number of carriers actually used by the UE and include the Multi-Carrier number IE in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UsedFrequency* IE in the *HS-SCCH Specific Information Response LCR* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UARFCN* IE in the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD If the MIMO Activation Indicator IE is included in the HS-DSCH TDD Information IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- If the RADIO LINK SETUP REQUEST message includes the *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].
- [FDD If the RADIO LINK SETUP REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *Priority Queue Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

[FDD - Secondary Serving HS-DSCH:]

[FDD - If the *Additional HS Cell Information RL Setup* IE is present in the RADIO LINK SETUP REQUEST message, then:]

- [FDD The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new secondary serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If Sixtyfour QAM will not be used for the secondary serving HS-DSCH Radio Link, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]

[FDD - E-DCH]:

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DCH Minimum Set E-TFCI* IE the Node B shall use the value for the related resource allocation operation.]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10].]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in TS 25.214 [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *E-DPCH Information* IE, which contains the *Minimum Reduced E-DPDCH Gain Factor* IE, then the Node B shall use the value to determine the applicable minimum gain factor ($\beta_{ed,k,reduced,min}$) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the Node B Communication Context, the Node B may use the default value defined in TS 25.331 [18].]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK SETUP REQUEST message:]

- [FDD The Node B shall setup the requested E-DCH resources on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH FDD Information* IE for an E-DCH MAC-d flow, then if the *Transport Bearer Not Requested Indicator* IE is not included for this E-DCH MAC-d flow, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for every E-DCH MAC-d flow being established for which the *Transport Bearer Not Requested Indicator* IE was not included.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
 - [FDD if the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]
 - [FDD if the Node B does not establish a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related reordering queue.]
- [FDD If the RADIO LINK SETUP REQUEST message includes *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flow*

- *Specific Information* IE in the *E-DCH FDD Information* IE, the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" the Node B shall assume scheduled grants being configured for the concerned E-DCH MAC-d flow.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK SETUP RESPONSE message for every RL indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK SETUP RESPONSE message.]
 - [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK SETUP RESPONSE message for the initial grant for the serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
 - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK SETUP RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH ReferencePower Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
 - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to 3GPP TS 25.321 [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to 3GPP TS 25.321 [32].]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-RNTI* IE in the *E-DPCH Information* IE but does not include the *E-RNTI* IE in the *RL Information* IE, the Node B shall use the information to detect the information related to the E-RNTI which is configured in the Node B when the UE was in Cell_FACH state.]

[FDD – Additional E-DCH Setup:]

[FDD - If the *Additional E-DCH Cell Information RL Setup Req* IE is present in the RADIO LINK SETUP REQUEST message, then the *Additional E-DCH Cell Information Setup Req* IE defines the new configuration and then:]

- [FDD The Node B shall setup the E-DCH on the secondary uplink frequency and setup the requested E-DCH resource on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *DL Power Balancing Information* IE and/or the *Minimum Reduced E-DPDCH Gain Factor* IE are present in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD If the Secondary UL Frequency Activation State IE is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the *Propagation Delay* IE, the *F-DPCH Slot Format* IE and/or the *E-RNTI* IE are present in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the Extended Propagation Delay IE, the Primary CPICH Usage For Channel Estimation IE, the Secondary CPICH Information IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the *E-DCH Maximum Bitrate* IE, the *E-DCH Processing Overload Level* IE and/or the *E-DCH Minimum Set E-TFCI* IE are present in the *Additional E-DCH FDD Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD If the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD If Separate Iub Transport Bearer Mode is used in the new configuration, then:]
 - [FDD The Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow and use the *Transport Bearer Not Requested Indicator* IE in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE to determine the transport bearer configuration in the new configuration for the MAC-d flow of the Secondary Uplink Frequency.]
 - [FDD If the *Transport Layer Address* IE and *Binding ID* IE is included for an E-DCH MAC-d flow in the *Additional E-DCH MAC-d Flows Specific Information* IE in the *Additional E-DCH FDD Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE in the *Additional E-DCH MAC-d Flow Specific Information Response* IE in the *Additional E-DCH Cell Information Response* IE for establishment of a transport bearer for every E-DCH MAC-d flow being established.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK SETUP REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]

- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]
 - [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2IE.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
 - [FDD If the Serving Cell Change CFN IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link

[FDD - E-DCH - HS-DSCH]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the DCH Indicator For E-DCH-HSDPA Operation IE, then the Node B shall ignore the DCH Information IE in the RADIO LINK SETUP REQUEST message.]

[TDD - E-DCH]:

[TDD - If the [3.84Mcps TDD - *E-DCH Information* IE] [1.28Mcps TDD - *E-DCH Information* 1.28Mcps IE][7.68Mcps TDD - *E-DCH Information* 7.68Mcps IE]is present in the RADIO LINK SETUP REQUEST message:]

- [TDD The Node B shall setup the requested E-DCH resources on the Radio Link indicated by the *E-DCH Serving RL* IE.]
- [TDD If the *TNL QoS* IE is included in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]

- [TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation.]
- [TDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type IE in the E-DCH MAC-d Flows Information TDD IE is set to "Non-scheduled" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants are configured for that E-DCH MAC-d flow and shall use the information within the [3.84Mcps E-DCH Non-scheduled Grant Information TDD IE] [1.28Mcps E-DCH Non-scheduled Grant Information LCR TDD IE] [7.68Mcps E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE], if included, for the related resource allocation operation.]
- [TDD If in the RADIO LINK SETUP REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Scheduled" the Node B shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Maximum Bit Rate LCR* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]
- [3.84Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH TDD Maximum Bitrate* IE in the *E-DCH TDD Information* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE in the *E-DCH TDD Information LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH TDD Maximum Bitrate* 7.68Mcps IE in the *E-DCH TDD Information* 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the [3.84Mcps TDD *E-DCH TDD Information* IE] [7.68Mcps TDD *E-DCH TDD Information 7.68Mcps* IE][1.28Mcps TDD *E-DCH TDD Information LCR* IE], then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE in the [3.84Mcps TDD *E-DCH TDD Information* IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] [7.68Mcps TDD *E-DCH TDD Information 7.68Mcps* IE], then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE in the *E-DCH TDD Information LCR* IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

- [3.84Mcps TDD and 7.68Mcps TDD - The Node B shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s), [1.28Mcps - E-HICHs] assigned in the *E-DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

Physical Channels Handling:

[FDD - Compressed Mode]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or the Node B Communication Context is deleted.]

[FDD - If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* refers to the latest passed CFN with that value The Node B shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to TS 25.211 [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.]

[FDD - DL Code Information]:

[FDD - When more than one DL DPDCH is assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to TS 25.212 [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

[TDD - PDSCH RL ID]:

[TDD - If the *PDSCH RL ID* IE is included in RADIO LINK SETUP REQUEST message, the Node B shall use the PDSCH RL ID as an identifier for the PDSCH and/or PUSCH in this radio link.]

[FDD - Phase Reference Handling]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH shall not be used", the Node B shall assume that the UE is not using the Primary CPICH for channel estimation. If the RADIO LINK SETUP REQUEST message does not include the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage*

For Channel Estimation IE and has the value "Primary CPICH may be used", the Node B shall assume that the UE may use the Primary CPICH for channel estimation.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Secondary CPICH Information* IE, the Node B shall assume that the UE may use the Secondary CPICH indicated by the *Common Physical Channel ID* IE for channel estimation.]

General:

[FDD - If the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according to TS 25.221 [19] and TS 25.224 [21].]

[FDD - If the received *Limited Power Increase* IE is set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. TS 25.214 [10] subclause 5.2.1 for the inner loop DL power control.]

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC UL Step Size* IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the *TDD TPC DL Step Size* IE of the lowest numbered DL CCTrCH whose *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE.]

[1.28 Mcps TDD - If no *TDD TPC DL Step Size* IE is included in the *DL CCTrCH Information* IE, the Node B shall use the *E-AGCH TPC step size* IE in the *E-PUCH Information LCR* IE in the *E-DCH Information 1.28Mcps* IE for HS-SCCH inner loop power control related operation.]

[1.28Mcps TDD - If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall transmit TPC /SS bits on a PLCCH according to the parameters given in the message.]

[FDD - DPCH Handling]:

[FDD - If the *UL DPDCH Indicator For E-DCH Operation* IE is set to "UL DPDCH not present", the *Min UL Channelisation Code Length* IE, the *Puncture Limit* IE and the *TFCS* IE within the *UL DPCH Information* IE shall be ignored and no UL DPDCH resources shall be allocated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL DPCH Information* IE, then the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink, i.e. with a DL DPCCH and a DL DPDCH.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *F-DPCH Information* IE, then the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink, i.e. with transmission of only the TPC field.]

[FDD - Continuous Packet Connectivity Handling]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

 $\cite{Gradient} \cite{Gradient}$ - The Node B shall configure the concerned Node B Communication Context for DTX operation according to TS 25.214 [10].]

[FDD - If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to TS 25.214 [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The Node B shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectivity HS-SCCH less operation according to TS 25.214 [10].]
- [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the Continuous Packet Connectivity HS-SCCH less Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - Continuous Packet Connectivity Handling]:

[1.28 Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to TS 25.224 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [21].]

[1.28 Mcps TDD - If the *Enabling Delay Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.224 [21].]

[1.28 Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
- [1.28 Mcps TDD The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent Resource Reservation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated HS-PDSCH Semi-persistent resource* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD The Node B shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD The Node B shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *E-DCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated E-DCH Semi-persistent resource* IE in the RADIO LINK SETUP RESPONSE message.]

Radio Link Handling:

[FDD - Transmit Diversity]:

[FDD - When the *Diversity Mode* IE is set to "STTD" or "Closedloop mode1", the Node B shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the *Transmit Diversity Indication* IE]

[FDD - If the *Diversity Mode* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Setup* IE in the RADIO LINK SETUP REQUEST message, the Node B

shall apply cell specific transmit diversity configuration and if the *Diversity Mode* IE is not set to "None" the Node B shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE.]

DL Power Control:

[FDD - The Node B shall start any DL transmission using the initial DL power specified in the message on each DL DPCH or on the F-DPCH of the RL until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.214 [10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the δP_{curr} , as described in ref.TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. TS 25.214 [10]).]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall start any DL transmission on each DCH type CCTrCH using the initial CCTrCH DL power, as determined above, on each DL DPCH and on each Time Slot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.224 [21], subclause 4.2.3.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the maximum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the minimum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD and 7.68Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled (TS 25.435 [24]), with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - The Node B shall determine the initial DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the Initial DL Power and ignore the *DL Time Slot ISCP info LCR* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in TS 25.224 [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DCH

type CCTrCH using the initial DL power, as determined above, on each DL DPCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.224 [21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[1.28Mcps TDD - The Node B shall determine the initial power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, and the *DL Time Slot ISCP Info LCR* IE, included in the *RL Information* IE, are included then the Node B shall use that power for the PDSCH and ignore the *Initial DL Transmission Power* IE included in the *RL Information* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in TS 25.224 [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DSCH type CCTrCH using the initial DL power, as determined above, on each DL PDSCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.224 [21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD and 7.68Mcps TDD - If the *DL Time Slot ISCP Info* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in TS 25.224 [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[FDD - If the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. TS 25.214 [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the Node B shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.7, using the *DL Power Balancing Information* IE. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P_{init}* shall be set to the power level indicated by the *Initial DL Transmission Power* IE.]

[FDD - If activation of power balancing by the RADIO LINK SETUP REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK SETUP REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to TS 25.224 [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the Idle Interval Information IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to the TS 25.331 [18].]

[1.28Mcps TDD - HS-DSCH-RNTI for FACH:]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH-RNTI for FACH* IE, if supported, the Node B shall store this information and include the *E-RNTI for FACH* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *Measurement occasion pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to TS 25.331 [18].]

[FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE for a Radio Link not indicated by the *HS-PDSCH RL ID* IE the Node B shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [49]:

- [FDD The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK SETUP REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of *C-ID*s in the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK SETUP REQUEST message.]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified:]
 - [FDD - by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell]
 - [FDD - by the *Num Secondary HS-SCCH Codes* IE in the Secondary Cells IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells]
- [FDD If *Num Primary HS-SCCH Codes* IE or *Num Secondary HS-SCCH Codes* IE is not included in the message, the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].]
- [FDD The Node B shall return these codes in the Sets of HS-SCCH Codes IE in the HS-DSCH
 Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK SETUP RESPONSE
 message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE
 message.]
- [FDD The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell"s HS-SCCH codes in the *HS-SCCH Preconfigured Codes* IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in TS 25.331 [18].

- [FDD The Node B shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message, IEs according to the rules defined for HS-DSCH Setup and:]
 - [FDD - if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *HARQ Preamble Mode Activation Indicator* IE]
 - [FDD - if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE or in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE the *MIMO N/M Ratio* IE]
 - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used in the preconfigured configuration the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell]
 - [FDD - if Sixtyfour QAM Usage Allowed Indicator is included in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE or in the *HS-DSCH Preconfiguration Setup* IE the *SixtyfourQAM DL Usage Indicator* IE for each preconfigured cell]
 - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
 - [FDD - if the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B shall store this information in the preconfigured configuration.]
 - [FDD - if the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B may store this information in the preconfigured configuration.]
 - [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH Preconfiguration Info* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The Node B shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK SETUP FAILURE message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]
 - [FDD - The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
 - [FDD -The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD If the HS-DSCH Preconfiguration Setup IE includes the E-DCH Indicator IE for a secondary cell, the Node B shall include in the Additional E-DCH Preconfiguration Information IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the E-DCH Indicator IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]
 - [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]

- [FDD – The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving Additional E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Non-Serving RL Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information B* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK SETUP RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK SETUP RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE, the *New non-serving RL E-DCH FDD DL Control Channel Information B* IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK SETUP RESPONSE message.]

General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", the Node B shall use synchronisation procedure B according to subclause 4.3.2.4 in TS 25.214 [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to TS 25.211 [7].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *E-RNTI* IE in the *RL Information* IE, the Node B shall use the information to detect the information related to the E-RNTI which is configured in the Node B when the UE was in Cell_FACH state.]

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC Pattern 01 Count* IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in TS 25.214 [10], section 5.1.2.2.1.2.]

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely

identifies the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Sets shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH information for all RLs in a RL Set shall be common.]

[FDD - The UL out-of-sync algorithm defined in TS 25.214 [10] shall, for each of the established RL Set(s), use the maximum value of the parameters $N_{OUTSYNC_{IND}}$ and $T_{RLFAILURE}$ that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in TS 25.214 [10] shall, for each of the established RL Set(s), use the minimum value of the parameters $N_{INSYNC_{IND}}$, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK SETUP RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

Response Message:

If the RLs are successfully established, the Node B shall and respond with a RADIO LINK SETUP RESPONSE message.

After sending the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in TS 25.427 [16].]
- [TDD start transmission on the new RL immediately as specified in TS 25.427 [16].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- if the *Delayed Activation* IE indicates "Separate Indication":
 - not start any DL transmission for the concerned RL on the Uu interface;
- if the *Delayed Activation* IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in TS 25.427 [16], however never before the CFN indicated in the *Activation CFN* IE.]
 - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in TS 25.427 [16].]

8.2.17.3 Unsuccessful Operation



Figure 25: Radio Link Setup procedure, Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD - If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. In this case, the Node B shall include the *Communication Control Port Id* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Setup* IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK SETUP FAILURE message. If the establishment of the RL identified by the *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Setup* IE, i.e. secondary serving HS-DSCH Radio Link is unsuccessful but the establishment of the RL identified by the *HS-PDSCH RL ID* IE for the serving HS-DSCH Radio Link is successful, then the Node B shall indicate the unsuccessful secondary serving HS-DSCH Radio Link in the *Unsuccessful RL Information Response* IE in the RADIO LINK SETUP FAILURE message by setting the *RL ID* IE to the same value as the unsuccessful *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Setup* IE.]

[FDD - If the RL identified by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. If the establishment of the RL identified by the *E-DCH Additional RL ID* IE is unsuccessful, then the Node B shall indicate the unsuccessful setup of the Additional E-DCH Radio Link in the *Unsuccessful RL Information Response* IE in the RADIO LINK SETUP FAILURE message by setting the *RL ID* IE to the same value as the unsuccessful *E-DCH Additional RL ID* IE in the *Additional E-DCH Cell Information Setup* IE.]

Typical cause values are as follows:

Radio Network Layer Cause:

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- [FDD DPC mode change not supported]
- Delayed Activation not supported
- F-DPCH not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available]

- E-DCH MAC-d PDU Size Format not available
- [FDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD Multi Cell operation not available.]
- [1.28Mcps TDD- MIMO not available]
- [1.28Mcps TDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD TX diversity for MIMO UE on DL Control Channels not available]
- [FDD Single Stream MIMO not available]
- [FDD Multi Cell operation with MIMO not available]
- [FDD Multi Cell operation with Single Stream MIMO not available]
- [FDD Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available]
- [FDD Multi Cell E-DCH operation not available]

Transport Layer Cause:

- Transport Resources Unavailable

Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

8.2.17.4 Abnormal Conditions

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the Node B shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCH Information* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE or *RL Specific E-DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must" [FDD - or the RL is combined with an E-DCH RL previously listed in the RADIO LINK SETUP RESPONSE message], the Node B shall regard the Radio Link Setup procedure as failed and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must Not", the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE for the first RL in the *RL Information* IE and/or [FDD - in the *RL Specific E-DCH Information* IE in the *RL Information* IE for the first E-DCH RL][TDD – in the *E-DCH MAC-d Flows Information TDD* IE], the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for an HS-DSCH MAC-d Flow in the *HS-DSCH MAC-d Flows Information* IE, the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

[TDD - If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for a DSCH in the *DSCH TDD Information* IE and/or for an USCH in the *USCH Information* IE, the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE for a serving HS-DSCH not referring to one of the radio links to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Flexible MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[TDD - If the RADIO LINK SETUP REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", and if the *First RLS indicator* IE is set to "not first RLS", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the F-DPCH Information IE and the DL DPCH Information IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, which activates a transmission gap pattern sequence with an SF/2 downlink compressed mode method, and if the concerned NodeB Communication Context is configured to use DPCH in downlink and the Transmission Gap Pattern Sequence

Code Information is not available for any Radio Link, the NodeB shall reject the Radio Link Setup procedure using the RADIO LINK SETUP FAILURE message with the cause value 'Invalid CM Settings'.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" and doesn"t include the *Secondary CPICH Information* IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *E-DCH RL Indication* IE set to "E-DCH", but does not contain the *E-DCH FDD Information* IE, or if the message contains the *E-DCH FDD Information* IE, but does not contain the *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message contains the *HS-PDSCH RL ID* IE and the *Serving E-DCH RL* IE but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not configured to be in the same cell then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *E-DPCH Information* IE but does not contain the *UL DPDCH Indicator For E-DCH Operation* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Serving Cell Change CFN* IE, but neither the *Serving E-DCH RL* IE nor *HS-DSCH Information* IE is included, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH, but does not contain the *Unidirectional DCH indicator* IE set to "Uplink DCH only" in the *DCH Specific Info* IE for the DCH, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the *UARFCN* IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall reject the procedure by sending the RADIO LINK SETUP FAILURE message.]

[1.28Mcps TDD - For the cell in which only one frequency is configured, if the UARFCN IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the *UL DPCH Information* IE in the RADIO LINK SETUP REQUEST message contains the *UL DPCCH Slot Format* set to "4" but does not contain the *F-DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the *UL DPCH Information* IE in the RADIO LINK SETUP REQUEST message contains the *UL DPCCH Slot Format* set to "0" or "2" and the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the *UL DPCH Information* IE in the RADIO LINK SETUP REQUEST message contains *Diversity Mode* IE set to "Closed loop mode 1" and *UL DPCCH Slot Format* not set to "2" or "3", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the MIMO Activation Indicator IE, Sixtyfour QAM Usage Allowed Indicator IE set to "Allowed", the the Additional HS Cell Information RL Setup IE and/or the Single Stream MIMO Activation Indicator IE, but does not contain the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but does not contain the *F-DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Serving E-DCH RL ID* IE but contains the *Transport Bearer Not Requested Indicator* IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with RL which the transport bearer is configured to be established for the DCH, previously listed in the RADIO LINK SETUP RESPONSE message in the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Additional HS Cell Information RL Setup* IE and if the *HS-DSCH Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE set to 'Flexible RLC PDU Size', and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *DL RLC PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Flexible RLC PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message contains a MIMO Activation Indicator IE and a Single Stream MIMO Activation Indicator IE in the HS-DSCH FDD Information IE or in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Setup IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Setup* IE the *Diversity Mode* IE not set to "None" but not the *Transmit Diversity Indicator* or contains the *Transmit Diversity Indicator* but not the *Diversity Mode* IE not set to "None", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Additional E-DCH Cell Information RL Setup Req* IE and if the *E-DPCH Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Additional E-DCH Cell Information RL Setup Req* IE and the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Additional E-DCH Cell Information RL Setup Req* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

8.2.18 Physical Shared Channel Reconfiguration

8.2.18.1 General

This procedure is used to assign HS-DSCH related resources to the Node B.

[TDD - This procedure is also used for handling PDSCH Sets and PUSCH Sets in the Node B, i.e.

- Adding new PDSCH Sets and/or PUSCH Sets,
- Modifying these, and
- Deleting them.]

This procedure is also used to assign E-DCH related resources to the Node B.

8.2.18.2 Successful Operation

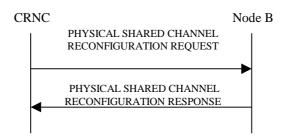


Figure 26: Physical Shared Channel Reconfiguration, Successful Operation

The procedure is initiated with a PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall activate the new configuration at the head boundary of the SFN according to the parameters given in the message.

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes an *SFN* IE, the Node B shall activate the new configuration at the head boundary of that specified SFN. If no *SFN* IE is included Node B shall activate the new configuration immediately.

E-DCH and HS-DSCH Resources:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH* and *E-HICH Total Power* IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes in the cell. If a value has never been set or if the value of the *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH* and *E-HICH Total Power* IE is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH And E-HICH Total Power* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes in the cell portion indicated by *Cell Portion ID* IE. If a value has never been set or if the value of the *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH And E-HICH Total Power* IE for the cell portion is equal to or greater than the maximum transmission power of the cell portion, the Node B may use all unused power for HS-PDSCH, HS-SCCH and E-AGCH, E-RGCH and E-HICH codes.]

HS-DSCH Resources:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH And HS-SCCH Scrambling Code* IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH FDD Code Information* IE, the Node B shall:

- if the Number Of HS-PDSCH Codes IE is set to "0", delete any existing HS-PDSCH resources from the cell.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are not currently configured in the cell, use this list as the range of codes for HS-PDSCH channels.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are currently configured in the cell, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH FDD Code Information* IE, the Node B shall:

- If the *HS-SCCH FDD Code Information* IE contains no codes, delete any existing HS-SCCH resources from the cell.

- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are not currently configured in the cell, use this list of codes as the list of codes for HS-SCCH channels.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for HS-SCCH channels.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH* and *HS-SCCH Total Power* IE [1.28 Mcps TDD – or *HS-PDSCH and HS-SCCH Total Power per CELL PORTION* IE in the *DL Timeslot and Code Information LCR per UARFCN* IE] for a particular timeslot, the Node B shall not exceed this maximum transmission power on all HS-PDSCH and HS-SCCH codes in that timeslot. If a value has never been set for that timeslot or if the value of the *HS-PDSCH and HS-SCCH Total Power* IE for that timeslot is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power in that timeslot for HS-PDSCH and HS-SCCH codes.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH TDD Information* IE, the Node B shall:

- If the *HS-PDSCH TDD Information* IE contains no [3.84 Mcps TDD *DL Timeslot and Code Information* IE] [1.28 Mcps TDD *DL Timeslot and Code Information LCR per UARFCN* IE] [7.68 Mcps TDD *DL Timeslot and Code Information 7.68Mcps* IE], delete any existing HS-PDSCH resources from the cell.
- If the *HS-PDSCH TDD Information* IE contains [3.84 Mcps TDD *DL Timeslot and Code Information* IE] [1.28 Mcps TDD *DL Timeslot and Code Information LCR* IE] [7.68 Mcps TDD *DL Timeslot and Code Information 7.68Mcps* IE] and HS-PDSCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for HS-PDSCH channels.
- If the *HS-PDSCH TDD Information* IE contains [3.84 Mcps TDD *DL Timeslot and Code Information* IE] [1.28 Mcps TDD *DL Timeslot and Code Information LCR* IE] [7.68 Mcps TDD *DL Timeslot and Code Information 7.68Mcps* IE] and HS-PDSCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for HS-PDSCH channels.]
- [1.28Mcps TDD If the *HS-PDSCH TDD Information* IE contains any *DL Timeslot and Code Information LCR per UARFCN* IE and HS-PDSCH resources are not currently configured on the indicated frequency within the cell, use this IE as the list of frequency / timeslots / codes for HS-PDSCH channels on the frequency, the HSDPA resources on other frequency shall remain unchanged.]
- [1.28Mcps TDD If the HS-PDSCH TDD Information IE contains any DL Timeslot and Code Information LCR per UARFCN IE and HS-PDSCH resources are currently configured on the indicated frequency within the cell, the current list of frequency / timeslots / codes shall be replaced with this new list of frequency / timeslots / codes for HS-PDSCH channels on this frequency, the HSDPA resources on other frequency/frequencies shall remain unchanged.]
- [1.28Mcps TDD If the *DL Timeslot and Code Information LCR per UARFCN* IE contains no *DL Timeslot and Code Information LCR* IE but contains *UARFCN* IE, the existing HS-PDSCH resources on the frequency indicated by the *UARFCN* IE shall be deleted, the HSDPA resources on other frequency/frequencies shall remain unchanged.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Add to HS-SCCH Resource Pool* IE, the Node B shall add this resource to the HS-SCCH resource pool to be used to assign HS-SCCH sets.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any of [3.84Mcps TDD - *TDD Channelisation Code* IE, *Midamble Shift and Burst Type* IE, *Time Slot* IE], [1.28Mcps TDD - *First TDD Channelisation Code* IE, *Second TDD Channelisation Code* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE, *TDD Channelisation Code* IE], [7.68Mcps TDD - *TDD Channelisation Code 7.68Mcps* IE, *Midamble Shift and Burst Type 7.68Mcps* IE, *Time Slot* IE], for either HS-SCCH or HS-SICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any *UARFCN* IEs related to HS-SCCH or HS-SICH channels, the Node B shall apply these configurations on the new frequency, otherwise the old frequency is still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes the *HS-SCCH Maximum Power* IE, the Node B shall apply this value for the specified HS-SCCH code otherwise the old value is still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes the *HS-SICH Reference Signal Information* IE in the *HS-SICH Reference Signal Information Modify* IE, the Node B shall apply this HS-SICH reference signal configuration. Else if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes the *HS-SICH Reference Signal Modify* IE but does not contain the *HS-SICH Reference Signal Modify* IE, the Node B shall delete this HS-SICH reference signal configuration for the specified HS-SCCH. Otherwise the old configration is still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from HS-SCCH Resource Pool* IEs, the Node B shall delete these resources from the HS-SCCH resource pool.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Add to Non-HS-SCCH associated HS-SICH Resource Pool* IEs and includes *UARFCN* IEs related to HS-SICH channel, the Node B shall add this resource to the non-HS-SCCH associated HS-SICH resource pool on the indicated frequency, otherwise the Node B shall add this resource to the non-HS-SCCH associated HS-SICH resource pool on the primary frequency.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Modify Non-HS-SCCH associated HS-SICH Resource Pool* IEs and includes *UARFCN* IEs related to HS-SICH channel, the Node B shall apply these configurations on the new frequency, otherwise the old frequency is still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from Non-HS-SCCH associated HS-SICH Resource Pool* IEs, the Node B shall delete these resources from the non-HS-SCCH associated HS-SICH resource pool.

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs for the cell portion indicated by Cell Portion ID. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes for the cell portion indicated by Cell Portion ID.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:

- if the *Number Of HS-PDSCH Codes* IE is set to "0", delete any existing HS-PDSCH resources from the cell portion indicated by *Cell Portion* ID IE.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are not currently configured in the cell portion indicated by *Cell Portion ID* IE, use this list as the range of codes for HS-PDSCH channels.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:

- If the *HS-SCCH FDD Code Information* IE contains no codes, delete any existing HS-SCCH resources from the cell portion indicated by *Cell Portion ID* IE.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are not currently configured in the cell portion indicated by *Cell Portion ID* IE, use this list of codes as the list of codes for HS-SCCH channels.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current list of codes with this new list of codes for HS-SCCH channels.]

[FDD - Enhanced Cell FACH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Common System Information* IE, then the Node B shall:

- If the HS-DSCH Common Information IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
- If the *Discard Timer* IE is included in the *Priority Queue Information for Enhanced FACH* IE, then the Node B shall use this information to discard out-of-date MAC-ehs SDUs from the related HSDPA Priority Queue.
- If the FACH Measurement Occasion Cycle Length Coefficient IE is included in the HS-DSCH Common Information IE, then the Node B shall use this information for MAC-hs scheduling decisions.
- The Node B shall allocate HS-SCCH codes and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
- The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
- If the Common MAC Flow Specific Information IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
- If the common MAC flow indicated by the Common MAC Flow ID exsits in the NodeB, then the NodeB shall apply the parameters to modify this common MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the common MAC flow.
- If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Common MAC Flow Specific Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Common MAC flow or Common MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.
- If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
- The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every Common MAC flow being established.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message for every Common MAC flow being established, if the Node B allows the CRNC to start transmission of MAC-c PDUs before the Node B has allocated capacity on user plane as described in [24].
- If the *Common MAC Flow Priority Queue Information* IE is included in the *Common MAC Flow Specific Information* IE, the Node B shall use the information for configuring HSDPA Priority Queues.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common MAC Flows To Delete* IEs, then the Node B shall use this information to delete the indicated Common MAC flows. When a Common MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common MAC Flows To Delete* IE requesting the deletion of all remaining Common MAC flows, then the Node B shall delete the HS-DSCH common system configuration and release the resources for enhanced FACH.]

[FDD - Enhanced Cell/URA_PCH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Paging System Information* IE, then the Node B shall:

- If the Paging MAC flow indicated by the Paging MAC Flow ID exsits in the NodeB, then the NodeB shall apply the parameters to modify this Paging MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the Paging MAC flow.
- If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Paging MAC Flow Specific Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC

when establishing a transport bearer for the concerned Paging MAC flow or Paging MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

- If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Paging MAC Flows To Delete* IEs, then the Node B shall use this information to delete the indicated Paging MAC flows. When a Paging MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Paging MAC Flows To Delete* IE requesting the deletion of all remaining Paging MAC flows, then the Node B shall delete the HS-DSCH paging system configuration and release the resources for enhanced PCH.]

[1.28Mcps TDD - Enhanced Cell_FACH Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Common System Information LCR* IE, then the Node B shall:

- If the HS-DSCH Common Information LCR IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
 - If the *Discard Timer* IE is included in the *Priority Queue Information for Enhanced FACH LCR* IE, then the Node B shall use this information to discard out-of-date MAC-ehs SDUs from the related HSDPA Priority Queue.
 - If the FACH Measurement Occasion Cycle Length Coefficient IE is included in the HS-DSCH Common Information LCR IE, then the Node B shall use this information for MAC-hs scheduling decisions.
 - The Node B shall allocate HS-SCCH codes and include the *HS-SCCH Specific Information Response LCR* IE in the *HS-DSCH Common System Information Response LCR* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
 - The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH Common System Information Response LCR* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
 - For a multi-frequency cell, if the *HARQ Memory Partitioning* IE is included in the *HS-DSCH Common System Information Response LCR* IE, the Node B shall include the *UARFCN* IE in the *HS-DSCH Common System Information Response LCR* IE to indicate the frequency of the *HARQ Memory Partitioning* IE in the *HS-DSCH Common System Information Response LCR* IE.
 - For a multi-frequency cell, the Node B can include the *HARQ Memory Partitioning Per UARFCN* IE in the *HS-DSCH Common System Information Response LCR* IE to indicate the HARQ Memory Partitioning infomation on the frequency indicated by the *UARFCN* IE in the *HARQ Memory Partitioning Per UARFCN* IE.
 - The Node B shall use the value of the *E-AGCH TPC Step Size* IE contained in the *Common E-PUCH Information LCR* IE in the *Common E-DCH System Information LCR* IE for HS-SCCH inner loop power control.]
- If the Common MAC Flow Specific Information LCR IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
 - If the common MAC flow indicated by the *Common MAC Flow ID LCR* IE exsits in the NodeB, then the NodeB shall apply the parameters to modify this common MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the common MAC flow.
 - If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Common MAC Flow Specific Information LCR* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Common MAC flow or Common MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

- If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
- The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every Common MAC flow being established.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the *HS-DSCH Common System Information Response LCR* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message for every Common MAC flow being established, if the Node B allows the CRNC to start transmission of MAC-c PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24].
- If the *Common MAC Flow Priority Queue Information LCR* IE is included in the *Common MAC Flow Specific Information LCR* IE, the Node B shall use the information for configuring HSDPA Priority Queues.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common MAC Flows To Delete LCR* IEs, then the Node B shall use this information to delete the indicated Common MAC flows. When a Common MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common MAC Flows To Delete LCR* IE requesting the deletion of all remaining Common MAC flows, then the Node B shall delete the HS-DSCH common system configuration and release the resources for enhanced FACH.]

[1.28Mcps TDD - If the *Power Control GAP for CELL_FACH* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B may use the value for the power control for HS-SCCH, HS-SICH and E-AGCH according to TS 25.224 [21].]

[1.28Mcps TDD - If the *UL Synchronisation Parameters LCR* IE is included in the *Common E-DCH System Information LCR* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B shall use the indicated values of *Uplink Synchronisation Step Size* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

[1.28Mcps TDD - If the *Physical Channel ID for Common E-RNTI Requested Indicator* IE in the *Common E-DCH System Information LCR* IE, if supported, the Node B shall included the *Associated Phsical Channel ID* IE in the *Common E-RNTI Information LCR* IE in the *Common E-DCH System Information Response LCR* IE to indicate the E-RUCCH associated with the related common E-RNTI group.]

[1.28Mcps TDD - Enhanced Cell/URA_PCH Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Paging System Information LCR* IE, then the Node B shall:

- If the Paging MAC flow indicated by the *Paging MAC Flow ID* IE exsits in the NodeB, then the NodeB shall apply the parameters to modify this Paging MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the Paging MAC flow.
- If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Paging MAC Flow Specific Information LCR* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Paging MAC flow or Paging MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.
- If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Paging MAC Flows To Delete LCR* IEs, then the Node B shall use this information to delete the indicated Paging MAC flows. When a Paging MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Paging MAC Flows To Delete LCR* IE requesting the deletion of all remaining Paging MAC flows, then the Node B shall delete the HS-DSCH paging system configuration and release the resources for enhanced PCH.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH System Information LCR* IE, and the *Scheduling Priority Indicator* IE is present in the *Common E-*

DCH Logical Channel information IE in the Common E-DCH MAC-d Flow Specific Information LCR IE, the Node B may use this IE to do the related scheduling operation.

[FDD - E-DCH Resources]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, the Node B shall use this as the scrambling code for all E-AGCHs, E-RGCHs and E-HICHs. If a value has never been set, the Node B shall use the primary scrambling code for all E-AGCH, E-RGCH and E-HICH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH FDD Code Information* IE, the Node B shall:]

- [FDD If the *E-AGCH FDD Code Information* IE contains no codes, delete any existing E-AGCH resources from the cell.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are not currently configured in the cell, use this list of codes as the list of codes for E-AGCH channels.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for E-AGCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-RGCH/E-HICH FDD Code Information* IE, the Node B shall:]

- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains no codes, delete any existing E-RGCH/E-HICH resources from the cell.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are not currently configured in the cell, use this list of codes as the list of codes for E-RGCH/E-HICH channels.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are currently configured in the cell, replace the current list of codes with this new list of codes for E-RGCH/E-HICH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Maximum Target Received Total Wide Band Power* IE, the Node B shall use this value to control E-DCH scheduling.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Reference Received Total Wide Band Power* IE, the Node B may use this value to control E-DCH scheduling.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Target Non-serving E-DCH to Total E-DCH Power Ratio* IE, the Node B shall store this value and use this value for E-DCH scheduling by controlling the ratio of received E-DCH wide band power from non-serving UEs to the total received E-DCH power.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall use this as the scrambling code for all E-AGCHs, E-RGCHs and E-HICHs for the cell portion indicated by Cell Portion ID. If a value has never been set, the Node B shall use the primary scrambling code for all E-AGCH, E-RGCH and E-HICH codes for the cell portion indicated by Cell Portion ID.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:]

- [FDD If the *E-AGCH FDD Code Information* IE contains no codes, delete any existing E-AGCH resources from the cell portion indicated by *Cell Portion* ID IE.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are not currently configured in the cell portion indicated by *Cell Portion* ID IE, use this list of codes as the list of codes for E-AGCH channels.]

- [FDD - If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are currently configured in the cell portion indicated by *Cell Portion* ID IE, replace the current list of codes with this new list of codes for E-AGCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-RGCH/E-HICH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:]

- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains no codes, delete any existing E-RGCH/E-HICH resources from the cell portion indicated by *Cell Portion ID* IE.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are not currently configured in the cell portion indicated by *Cell Portion ID* IE, use this list of codes as the list of codes for E-RGCH/E-HICH channels.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current list of codes with this new list of codes for E-RGCH/E-HICH channels.]

[TDD - E-DCH Resources]:

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-PUCH Information* IE, the Node B shall:

- If the *E-PUCH Information* IE contains no *E-PUCH Timeslot Information* IE, then the Node B shall delete any existing E-DCH resources from the cell.
- If the *E-PUCH Information* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots for E-PUCH channels.
- If the *E-PUCH Information* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots with this new list of timeslots for E-PUCH channels.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-PUCH Information 1.28Mcps* IE, the Node B shall:

- If the *E-PUCH Information 1.28Mcps* IE contains no *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE, then the Node B shall delete any existing E-DCH resources from the cell.
- For a single-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for E-PUCH channels.
- For a single-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for E-PUCH channels.
- For a multi-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are not currently configured on the indicated frequency in the cell, use this IE as the list of frequency / timeslots / codes for E-PUCH channels, the E-DCH resources on other frequency shall remain unchanged.
- For a multi-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are currently configured on the indicated frequency in the cell, replace the current list of frequency / timeslots / codes with this new list of timeslots / codes for E-PUCH channels, the E-DCH resources on other frequency shall remain unchanged.
- For a multi-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE but only *UARFCN* IE is included, then the Node B shall delete the existing E-DCH resources on the frequency indicated by the *UARFCN* IE from the cell, the E-DCH resources on other frequency shall remain unchanged.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-PUCH Information 7.68Mcps* IE, the Node B shall:

- If the *E-PUCH Information 7.68Mcps* IE contains no *E-PUCH Timeslot Information* IE, then the Node B shall delete any existing E-DCH resources from the cell.

- If the *E-PUCH Information 7.68Mcps* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots for E-PUCH channels.
- If the *E-PUCH Information 7.68Mcps* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots with this new list of timeslots for E-PUCH channels.]
- [TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes [3.84Mcps TDD *Add to E-AGCH Resource Pool IE*] [1.28Mcps TDD *Add to E-AGCH Resource Pool 1.28Mcps* IE][7.68Mcps TDD *Add to E-AGCH Resource Pool 7.68Mcps* IE], the Node B shall add this resource to the E-AGCH resource pool to be used to assign E-AGCH sets.]
- [3.84Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-AGCH Resource Pool* IEs and includes any of *TDD Channelisation Code* IE, *Midamble Shift and Burst Type* IE, *Time Slot* IE, for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]
- [1.28Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-AGCH Resource Pool 1.28Mcps* IEs and includes any of *First TDD Channelisation Code* IE, *Second TDD Channelisation Code* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE, *UARFCN* IE for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]
- [7.68Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-AGCH Resource Pool 7.68Mcps* IEs and includes any of *TDD Channelisation Code 7.68Mcps* IE, *Midamble Shift and Burst Type 7.68Mcps* IE, *Time Slot* IE, for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]
- [TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any [3.84Mcps TDD *Modify E-AGCH Resource Pool IEs*] [1.28Mcps *Modify E-AGCH Resource Pool 1.28Mcps* IEs][7.68Mcps TDD *Modify E-AGCH Resource Pool 7.68Mcps* IEs]and includes the *Maximum E-AGCH Power* IE, the Node B shall apply this value for the specified E-AGCH code otherwise the old value is still applicable.]
- [TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from E-AGCH Resource Pool* IEs, the Node B shall delete these resources from the E-AGCH resource pool.]
- [3.84Mcps TDD and 7.68Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the [3.84Mcps TDD *E-HICH Information IE*] [7.68Mcps TDD *E-HICH Information 7.68Mcps IE*], the Node B shall configure the E-HICH according to the parameters.]
- [1.28Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Add to E-HICH Resource Pool 1.28Mcps* IE, the Node B shall add this resource to the E-HICH resource pool to be used to assign Scheduled or Non-scheduled E-HICH sets.]
- [1.28Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-HICH Resource Pool 1.28Mcps* IEs and includes any of *E-HICH Type* IE, *TDD Channelisation Code* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE, *UARFCN* IE for E-HICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]
- [1.28Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-HICH Resource Pool 1.28Mcps* IEs and includes the *Maximum E-HICH Power* IE, the Node B shall apply this value for the specified E-HICH code otherwise the old value is still applicable.]
- [1.28Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from E-HICH Resource Pool 1.28Mcps* IEs, the Node B shall delete these resources from the E-HICH resource pool.]
- [3.84Mcps TDD and 7.68Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Maximum Generated Received Total Wide Band Power in Other Cells* IE, the Node B shall use this value to control E-DCH scheduling.]
- [1.28Mcps TDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Maximum Target Received Total Wide Band Power LCR* IE, the Node B shall use this value to control E-DCH scheduling.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Maximum RTWP per UARFCN information LCR* IE, the Node B may use this value to control E-DCH scheduling in a multi-frequency cell and ignore the *Maximum Target Received Total Wide Band Power LCR* IE.]

[TDD - PDSCH/PUSCH Addition]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be added, the Node B shall add these new sets to its PDSCH/PUSCH configuration.]

[1.28Mcps TDD - If the *TSTD Indicator* IE is included in *PDSCH To Add Information LCR* IE and is set to "active", the Node B shall activate TSTD diversity for PDSCH transmissions using the specified PDSCH Set that are not beacon channels (TS 25.221 [19], TS 25.224 [21]). If the *TSTD Indicator* IE is set to "not active" or the TSTD Indicator IE is not included in *PDSCH To Add Information LCR* IE, the Node B shall not activate TSTD diversity for the PDSCH Set.]

[TDD - PDSCH/PUSCH Modification]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be modified, and includes any of [3.84Mcps TDD - *DL/UL Code Information IE, Midamble Shift And Burst Type IE, Time Slot IE*], [1.28Mcps TDD - *DL/UL Code Information LCR IE, Midamble Shift LCR IE, Time Slot LCR IE*], [7.68Mcps TDD - *DL/UL Code Information 7.68Mcps IE, Midamble Shift And Burst Type 7.68Mcps IE, Time Slot IE*], *TDD Physical Channel Offset IE, Repetition Period IE, Repetition Length IE*, or *TFCI Presence IE*, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[TDD - PDSCH/PUSCH Deletion]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be deleted the Node B shall delete these sets from its PDSCH/PUSCH configuration.]

[1.28Mcps TDD - SYNC_UL Partition]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *SYNC_UL Partition Information* IE, the Node B shall store the *E-RUCCH SYNC_UL codes bitmap* IE used to differentiate the E-DCH random access from the RACH random access according to TS 25.224 [21].]

[FDD – Common E-DCH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH System Information* IE, then the Node B shall:

- If the *Common E-DCH UL DPCH Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
- If the *Common E-DCH E-DPCH Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
 - If the *E-RGCH 2-Index-Step* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B shall use the value when the new configuration is being used. For the case of initial assignment of E-DCH related resources to the NodeB, if *E-RGCH 2-Index-Step* IE is not present, the NodeB shall use the default value defined in TS 25.331 [18].
 - If the *E-RGCH 3-Index-Step* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B shall use the value when the new configuration is being used. For the case of initial assignment of E-DCH related resources to the NodeB, if *E-RGCH 3-Index-Step* IE is not present, the NodeB shall use the default value defined in TS 25.331 [18].
- If the *Common E-DCH Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
 - If the *E-DCH Reference Power Offset* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-i PDU and to determine the value of the actual HARQ power offset.
 - If the *E-DCH Power Offset for Scheduling Info* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-is PDUs.

- If the *Maximum TB Sizes* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B may use this information for the Node B scheduler in the new configuration.
- If the *Common E-DCH Additional Transmission Back Off* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B may use this information for the related common E-DCH resource allocation operation.
- If the *Common E-DCH Implicit Release Timer* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this information for the related common E-DCH resource release decision.
- If the *Common E-DCH HS-DPCCH Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.
 - If the Common E-DCH CQI Information is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use the information for CQI operation in the new configuration.
- If the *Common E-DCH Preamble Control Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
 - If the *E-AI Indicator* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this value for configuration of E-AIs on the AICH.
 - If the *Common E-DCH AICH Information* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this information for configuration of AICH.
- If the *Common E-DCH F-DPCH Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.
 - If the *Initial DL Transmission Power* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall, if supported, use this value for configuration of Initial DL Transmission Power on the F-DPCH.
 - If the *Maximum DL Power* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall, if supported, use this value for configuration of Maximum DL Power on the F-DPCH.
 - If the *Minimum DL Power* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall, if supported, use this value for configuration of Minimum DL Power on the F-DPCH.
- If the *Common E-DCH E-AGCH Channelisation Code Number* IE is included, then the Node B shall use the indicated channelization code for the E-AGCH for the common E-DCH in the new configuration.
- If the *Common E-DCH Resource Combination Information* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
 - If the *E-RGCH Signature Sequence* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall configure the E-RGCH for the combination and use indicated signature sequence.
- If the UL Common MAC Flow Specific Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
 - If the *Transport Layer Address* IE and *Binding ID* IE are included in the UL *Common MAC Flow Specific Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned UL Common MAC flow.
 - If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.

- The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every UL Common MAC flow being established.
- If the *Bundling Mode Indicator* IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the Common E-DCH UL data frames for the related UL Common MAC flow, otherwise the Node B shall use the non-bundling mode for the Common E-DCH UL data frames for the related UL Common MAC flow.
- If the *E-DCH MAC-d Flow Multiplexing List* IE is included for a Common E-DCH MAC-d flow in the *Common E-DCH MAC-d Flow Specific Information* IE, the Node B shall use this information for the related resource allocation operation.]
- If the *E-RNTI List Request* IE is included, then the Node B shall, if supported, include the *E-RNTI List* IE in the *Common E-DCH System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common UL MAC Flows To Delete* IEs, then the Node B shall use this information to delete the indicated Common UL MAC flows. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common UL MAC Flows To Delete* IE requesting the deletion of all remaining Common UL MAC flows, then the Node B shall delete the common E-DCH system configuration and release the resources for Common E-DCH.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH MAC-d Flows To Delete* IEs, then the Node B shall use this information to delete the indicated Common E-DCH MAC-d flows. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining Comm E-DCH MAC-d flows associated to a Common UL MAC flow, then the Node B shall release the resources for the Common UL MAC flow.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE, then the Node B may use this value to determine the E-AGCH power.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE, then the Node B may use this value to determine the E-RGCH power.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE, then the Node B may use this value to determine the E-HICH power.]

[1.28Mcps TDD – Common E-DCH Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH System Information LCR* IE, then the Node B shall:

- If the *UL Common MAC Flow Specific Information LCR* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
 - If the *Transport Layer Address* IE and *Binding ID* IE are included in the UL Common MAC Flow Specific Information IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned UL Common MAC flow.
 - If the *TNL QoS* IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
 - The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of transport bearer for every UL Common MAC flow being established.
 - If the *E-DCH MAC-d Flow Multiplexing List* IE is included for a Common E-DCH MAC-d flow in the *Common E-DCH MAC-d Flow Specific Information LCR* IE, the Node B shall use this information for the related resource allocation operation.]
- If the *Common E-PUCH Information LCR* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.

- If the *E-TFCS Information TDD* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH MAC-d Flows To Delete LCR* IEs, then the Node B shall use this information to delete the indicated Common E-DCH MAC-d flows. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common UL MAC Flows to Delete LCR* IE requesting the deletion of all remaining Comm E-DCH MAC-d flows associated to a Common UL MAC flow, then the Node B shall release the resources for the Common UL MAC flow.]

[FDD – Enhanced UE DRX Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Enhanced UE DRX Information* IE, then the Node B shall use the information to execute Enhanced UE DRX for the cell.]

[1.28Mcps DD – Enhanced UE DRX Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Enhanced UE DRX Information LCR* IE, then the Node B shall use the information to execute Enhanced UE DRX for the cell.]

[1.28Mcps TDD - Shared physical channels Synchronisation Detection]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Out-of-sync Detection Window* IE, then the Node B shall use this IE to detect the synchronization status of UE as described in ref TS 25.224 [21], subclause 5.3.2A.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Treset Usage Indicator* IE, if supported, the Node B shall stop using all configured MAC-ehs Reset Timers for the UEs in enhanced CELL_PCH or CELL_FACH with dedicated H-RNTI according to 3GPP TS 25.321 [32].]

Response Message:

HS-DSCH/HS-SCCH Resources:

In the successful case involving HS-PDSCH or HS-SCCH resources, the Node B shall store the value of *Configuration Generation ID* IE and it shall make these resources available to all the current and future HS-DSCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.

[TDD - PDSCH/PUSCH Addition/Modification/Deletion]:

[TDD - In the successful case involving PDSCH/PUSCH addition, modification or deletion, the Node B shall add, modify and delete the PDSCH Sets and PUSCH Sets in the Common Transport Channel data base, as requested in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, and shall make these available to all the current and future DSCH and USCH transport channels. The Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.]

8.2.18.3 Unsuccessful Operation

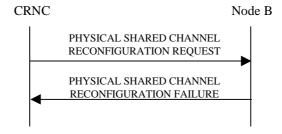


Figure 27: Physical Shared Channel Reconfiguration procedure: Unsuccessful Opreration

If the Node B is not able to support all parts of the configuration, it shall reject the configuration of all the channels in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message. The *Cause* IE shall be set to an appropriate value [TDD - either a single general cause value or PDSCH and PUSCH set specific cause values for each

set that caused a failure within the *Unsuccessful DL Shared Channel Set* IE for PDSCH sets or *Unsuccessful UL Shared Channel Set* IE for PUSCH sets]. The *Configuration Generation ID* shall not be changed in the Node B.

If the configuration was unsuccessful, the Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message:

[1.28Mcps TDD - For a multi-frequency cell, if the Node B is not able to support all parts of the configuration, in the case the Node B can only support configuration on one or some frequencies, the HSDPA or E-DCH related resources on this or these frequencies may be regarded as having successfully been established/reconfigured/removed, the Node B shall reject the HSDPA or E-DCH related configuration on other failed frequencies. The Node B may respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message. The *HS-Cause* IE or *E-Cause* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message may be set to specific cause values for each frequency that caused a HSDPA or E-DCH related configuration failure. If the failure occurs on the HS-PDSCH, HS-SCCH, E-PUCH or E-AGCH resources, the Node B may store the value of the *Configuration Generation ID* IE and it shall make these resources available to all the current and future HS-DSCH or E-DCH transport channels. If the Node B is not able to support the HSDPA or E-DCH related configuration on any frequencies, the *Cause* IE may be set to an appropriate value, which is either a general cause value or specific cause values for each frequency that caused a failure. For the successfully configured HSUPA frequencies, the *E-HICH Time Offset LCR per UARFCN* IE may be included in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message. For the successfully configured Enhanced CELL_FACH frequencies, the *Common System Information Response LCR* IE may be included in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

Typical cause values are as follows:

Radio Network Layer Cause:

- Cell not available
- Node B Resources unavailable

Transport Layer Cause:

- Transport Resources Unavailable

Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

8.2.18.4 Abnormal Conditions

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains *Add to HS-SCCH Resource Pool* IE, the *Modify HS-SCCH Resource Pool* IE, or the *Delete from HS-SCCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-AGCH Resource Pool* IE, the *Modify E-AGCH Resource Pool* IE, or the *Delete from E-AGCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Add to E-AGCH Resource Pool 1.28Mcps IE, the Modify E-AGCH Resource Pool 1.28Mcps IE, or the Delete from E-AGCH Resource Pool IE and does not contain the Configuration Generation ID the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-HICH Resource Pool 1.28Mcps* IE, the *Modify E-HICH Resource Pool 1.28Mcps* IE, or the *Delete from E-HICH Resource Pool 1.28Mcps* IE and does not contain the *Configuration Generation ID* the Node B shall consider the

procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-AGCH Resource Pool 7.68Mcps* IE, the *Modify E-AGCH Resource Pool 7.68Mcps* IE, or the *Delete from E-AGCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Configuration Generation ID IE and does not contain at least one of Add to HS-SCCH Resource Pool IE, the Modify HS-SCCH Resource Pool IE, [3.84Mcps TDD - the Add to E-AGCH Resource Pool IE, the Modify E-AGCH Resource Pool IE, the Delete from E-AGCH Resource Pool I.28Mcps IE, the Delete from E-AGCH Resource Pool 1.28Mcps IE, the Delete from E-AGCH Resource Pool IE, the Add to E-HICH Resource Pool 1.28Mcps IE, the Modify E-HICH Resource Pool 1.28Mcps IE, the Delete from E-HICH Resource Pool 1.28Mcps IE, [7.68Mcps TDD - the Add to E-AGCH Resource Pool 7.68Mcps IE, the Modify E-AGCH Resource Pool 7.68Mcps IE, the Delete from E-AGCH Resource Pool IE,] or the Delete from HS-SCCH Resource Pool IE the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If neither E-AGCH nor E-HICH/E-RGCH resources are configured in the cell, and if one or more codes are included in the *E-AGCH FDD Code Information* IE and/or *E-RGCH/E-HICH FDD Code Information* IE but the *Maximum Target Received Total Wide Band Power* IE is not included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall send PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, and the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE is not identical to the scrambling code of the phase reference, then the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, and the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE is not identical to the scrambling code of the phase reference, then the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-DSCH Common Information* IE and/or *Common MAC Flow Specific Information* IE and if the Priority Queues associated with the same *Common MAC Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *DL Timeslot and Code Information LCR per UARFCN* IE in the *HS-PDSCH TDD Information* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *HS-SCCH Information LCR* IE in the *Add to HS-SCCH Resource Pool* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *UARFCN* IE in the *HS-SCCH Information LCR* IE in the *Modify HS-SCCH Resource Pool* IE, the HS-SCCH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *UARFCN* IE in the *E-AGCH Information 1.28Mcps* IE in the *Modify E-AGCH Resource Pool 1.28Mcps* IE, the E-AGCH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

- [1.28Mcps TDD For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *UARFCN* IE in the *E-HICH Information 1.28Mcps* IE in the *Modify E-HICH Resource Pool 1.28Mcps* IE, the E-HICH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
- [1.28Mcps TDD For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *DL Timeslot and Code Information LCR* IE in the *DL Timeslot and Code Information LCR* IE in the *DL Timeslot and Code Information LCR per UARFCN* IE in the *HS-PDSCH TDD Information* IE but contains *UARFCN* IE, and no HS-DSCH resources are configured on the frequency within the cell, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
- [1.28Mcps TDD For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE in the *E-PUCH Information 1.28Mcps* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
- [1.28Mcps TDD For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *Add to E-AGCH Resource Pool 1.28Mcps* IE, the *Modify E-AGCH Resource Pool 1.28Mcps* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
- [1.28Mcps TDD For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *Add to E-HICH Resource Pool 1.28Mcps* IE, the *Modify E-HICH Resource Pool 1.28Mcps* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
- [1.28Mcps TDD For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *E-PUCH Timeslot Information 1.28Mcps* IE in the *E-PUCH Timeslot Information 1.28Mcps* IE but contains *UARFCN* IE, and no E-DCH resources are configured on the frequency within the cell, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
- [FDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH System Information* IE and if the message does not contain the *HS-DSCH Common System Information* IE or the resource for enhanced FACH is not configured for the cell, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]
- [FDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Enhanced UE DRX Information* IE and if the message does not contain the *HS-DSCH Common System Information* IE or the resource for enhanced FACH is not configured for the cell, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]
- [FDD If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-DSCH Paging System Information* IE and *Paging MAC Flow Specific Information* IE and if the Priority Queues associated with the same *Paging MAC Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]
- If ALCAP is not used, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the newly established Common MAC Flow, Paging MAC Flow and/or UL Common MAC Flow, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.

8.2.19 Reset

8.2.19.1 General

The purpose of the Reset procedure is to align the resources in the CRNC and the Node B in the event of an abnormal failure. The CRNC or the Node B may initiate the procedure.

8.2.19.2 Successful Operation

8.2.19.2.1 Reset Initiated by the CRNC

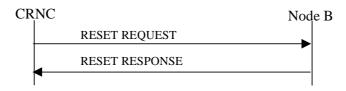


Figure 27A Reset procedure (CRNC to Node B), Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

If the *Reset Indicator* IE is set to "Communication Context", the Node B shall remove all the indicated Node B Communication Contexts (identified by a *Node B Communication Context ID* or a *CRNC Communication Context ID* IE) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the *Reset Indicator* IE is set to "Communication Control Port", the Node B shall remove all the Node B Communication Control Port(s) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the *Reset Indicator* IE is set to "Node B", the Node B shall remove all the Node B Communication Contexts within the Node B and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

8.2.19.2.2 Reset Initiated by the Node B

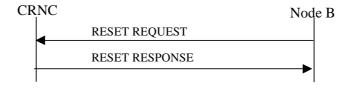


Figure 27B Reset procedure (Node B to CRNC), Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the Node B to the CRNC using the Node B Control Port.

If the *Reset Indicator* IE is set to "Communication Context", for all indicated CRNC Communication Contexts (indicated by a *CRNC Communication Context ID* or a *Node B Communication Context ID* IE), the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the indicated CRNC Communication Contexts. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to the Node B.

If the *Reset Indicator* IE is set to "Communication Control Port", for all the CRNC Communication Contexts controlled via the indicated Communication Control Port(s), the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC Communication Contexts controlled via the indicated Communication Control Port(s). After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

If the *Reset Indicator* IE is set to the "Node B", for all the CRNC Communication Contexts related to this Node B, the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC

Communication Contexts related to this Node B. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

8.2.19.3 Unsuccessful Operation

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8.2.19.4 Abnormal Conditions

If the RESET REQUEST message is received any ongoing procedure related to a CRNC Communication Context in the CRNC or Node B Communication Context in the Node B indicated (explicitly or implicitly) in the message shall be aborted.

8.2.20 Cell Synchronisation Initiation [TDD]

8.2.20.1 General

This procedure is used by a CRNC to request the transmission of [3.84Mcps TDD - Cell Synchronisation Bursts sent in the PRACH time slots] [1.28Mcps TDD - SYNC_DL code sent in the DwPTS] and/or to start measurements on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL code] in a Node B.

8.2.20.2 Successful Operation

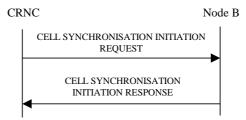


Figure 27C Cell Synchronisation Initiation procedure, Successful Operation

The procedure is initiated with a CELL SYNCHRONISATION INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested transmission according to the parameters given in the request and start the measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL code] if requested.

[3.84Mcps TDD - Cell Sync Burst Transmission Initiation] [1.28Mcps TDD - SYNC_DL Code Transmission Initiation LCR]:

When the [3.84Mcps TDD - Cell Sync Burst Transmission Initiation Information] [1.28Mcps TDD - SYNC_DL Code Transmission Initiation Information LCR] is present, the Node B shall configure the transmission of the cell synchronisation burst according to the parameters given in the CELL SYNCHRONISATION INITIATION REQUEST message. The *SFN* IE indicates the frame number when the cell shall start transmitting cell synchronisation bursts.

[3.84Mcps TDD - When the Cell Sync Burst Transmission Initiation Information is present and the "Frequency Acquisition" is indicated within the *Synchronisation Report Type* IE, the Node B shall first perform only frequency locking on received cell synchronisation bursts. Transmission of the indicated cell synchronisation bursts shall be started only if the frequency locking is performed successfully and "Frequency Acquisition completed" is reported to the RNC.]

[3.84Mcps TDD - Cell Sync Burst Measurement characteristics] [1.28Mcps TDD - SYNC_DL Code Measurement characteristics LCR]:

When the [3.84Mcps TDD - Cell Sync Burst Measurement Initiation Information][1.28Mcps TDD - SYNC_DL Code Measurement Initiation Information LCR] is present, the Node B shall initiate measurements on the indicated cell synchronisation burst.

If the *SFN* IE is present, the Node B shall after measurement of the indicated [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] adjust the frame number of the indicated cell according to the SFN of the CELL SYNCHRONISATION INITIATION REQUEST message. This adjustment shall only apply to the late entrant cell at the late entrant phase.

Synchronisation Report characteristics:

The *Synchronisation Report Characteristics* IE indicates how the reporting of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurement shall be performed. Whenever the Cell Synchronisation Initiation procedure is initiated, only [3.84Mcps TDD - the "Frequency Acquisition completed" or] "Frame related" report characteristics type shall apply.

[3.84Mcps TDD - If the *Synchronisation Report characteristics type* IE is set to "Frequency Acquisition completed", the Node B shall signal completion of frequency acquisition to the RNC when locking is completed.]

If the *Synchronisation Report characteristics type* IE is set to "Frame related", the Node B shall report the result of the cell synchronisation burst measurement after every measured frame.

[3.84Mcps TDD - If the *Cell Sync Burst Arrival Time* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, it indicates to the Node B the reference time at which the reception of the cell synchronisation burst of a neighbouring cell is expected.]

[3.84Mcps TDD - If the *Cell Sync Burst Timing Threshold* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

[1.28Mcps TDD - If the SYNC_DL Code ID Arrival Time IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the SYNC_DL Code of a neighbouring cell is expected.]

[1.28Mcps TDD - If the SYNC_DL Code ID Timing Threshold IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

Response message:

If the Node B was able to initiate the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission and/or measurement requested by the CRNC it shall respond with the CELL SYNCHRONISATION INITIATION RESPONSE message sent over the Node B Control Port.

8.2.20.3 Unsuccessful Operation

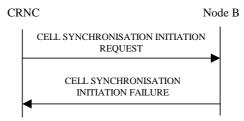


Figure 27D Cell Synchronisation Initiation procedure, Unsuccessful Operation

If the requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Code] cannot be initiated, the Node B shall send a CELL SYNCHRONISATION INITIATION FAILURE message over the Node B control port. The message shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Cell Synchronisation not supported

- Power level not supported
- Measurement Temporarily not Available
- Frequency Acquisition not supported

Miscellaneous Cause:

- O&M Intervention
- HW failure

8.2.20.4 Abnormal Conditions

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8.2.21 Cell Synchronisation Reconfiguration [TDD]

8.2.21.1 General

This procedure is used by a CRNC to reconfigure the transmission of [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Code] and/or to reconfigure measurements on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Code] in a Node B.

8.2.21.2 Successful Operation

8.2.21.2.1 General

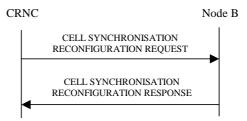


Figure 27E Cell Synchronisation Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL SYNCHRONISATION RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission and/or measurements according to the parameters given in the request.

8.2.21.2.2 [3.84Mcps TDD - Cell Sync Burst Schedule]

Within the CELL SYNCHRONISATION RECONFIGURATION REQUEST message first the schedule for the steady state phase is fixed. I.e. the number of cycles per SFN period is defined with the same schedule. For each cycle, the number of repetitions is defined according to following equations:

Cycle length: 4096 / value of Number Of Cycles Per SFN Period IE

Repetition period: Cycle length / value of Number Of Repetitions Per Cycle Period IE

Cell Sync Frame number is calculated by:

SFN = floor((k-1) * Cycle length + (i-1)* Repetition period)

 $k = \{1, 2, 3, ... \text{ Number of cycle per SFN period}\}$

 $i = \{1, 2, 3, ... \text{ Cell Sync Frame number within cycle period}\}$

8.2.21.2.3 [1.28Mcps TDD - SYNC_DL Code Schedule]

Within the CELL SYNCHRONISATION RECONFIGURATION REQUEST message first the schedule for the steady state phase is fixed. The "schedule" includes

- the list of frame numbers SFN within the SFN period where SYNC_DL Code transmission or reception takes place, i.e. the "synchronisation frames", and
- the associated actions (SYNC_DL Code transmission, reception, averaging, reporting etc) to be performed for synchronisation purpose by the Node B at each of these SFNs.

Within the synchronisation frames, only the first subframe shall be used for sending or receiving a SYNC_DL Code in the DwPTS while in the second subframe, normal operation continues.

The synchronisation schedule includes the option of averaging of measured correlation results within the Node B over a sequence of measurements, for increasing the reliability of the Time of Arrival measurement obtained from the correlation results. For this purpose, the concept of "subcycles" has been introduced: Each Synchronisation Cycle is devided into "subcycles" where in each subcycle, the same set of SYNC_DL transmissions and receptions is performed, and averaging takes place over all the subcycles within a Synchronisation Cycle. Since the list of actions (transmission, measurements etc) is the same in each subcycle, and the subcycles are repeated to make up a cycle, and the cycles make up an SFN period, the full list of actions is derived by the actions specified for a subcycle.

The full list of SFNs which make up the synchronisation schedule within the SFN period are calculated in Node B and CRNC autonomously based on the following parameters included in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message: "Number of cycles per SFN period", "Number of subcycles per cycle period", and "Number of repetitions per cycles period", along the following equations:

Cycle length: 4096 / value of Number Of Cycles Per SFN Period IE

Subcycle length: Cycle length / value of Number Of Subcycles Per Cycle Period IE

Repetition period: Subcycle length / value of Number Of Repetitions Per Cycle Period IE

SFN = floor((k-1) * Cycle length + (j-1)*Subcycle length + (i-1)* Repetition period)

 $k = \{1, 2, 3, ... \text{ Number of cycle per SFN period}\}$

 $j = \{1, 2, 3, ... \text{ Number of subcycles per cycle}\}$

 $i = \{1, 2, 3, ...$ Number of repetitions per cycle period $\}$

Note that if the *Number Of Subcycles Per Cycle* IE is equal to 1, then the subcycles are identical to the "Synchronisation Cycles".

If the *Number Of Subcycles Per Cycle* IE is included in the CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD] message, then the Node B shall apply this number for dividing the Synchronisation Cycles in Subcycles. If the IE is not present, then the Node B shall assume that there is one subcycle per synchronisation cycle only, which is identical to the synchronisation cycle.

Averaging is performed as follows:

- From each SYNC_DL code being received according to the schedule, the Node B shall calculate a "correlation function" by matching the received data with the respective expected code.
- Therefore the set of measurements within one subcycle provides a set of "correlation functions".
- The set of correlation functions of the first subcycle within a synchronisation cycle is stored in an averaging memory.
- The sets of correlation functions of the subsequent subcycles within a synchronisation cycle are combined with the available contents of the "averaging memory", to produce an average over all the sets of correlation functions within a synchronisation cycle.

- At the end of a synchronisation cycle, the Time-of-Arrival measurements for that synchronisation cycle are obtained by evaluating the final set of correlation functions.

These Time-of-Arrival measurements, together with associated SIR values obtained from the averaged correlation functions, are included in a Measurement Report to the CRNC, according to a measurement reporting plan.

In addition, the Time-of-Arrival measurements may optionally be used for autonomous self-adjustment of the timing of the respective cell.

8.2.21.2.4 [3.84Mcps TDD - Cell Sync Burst Transmission Reconfiguration] [1.28Mcps TDD - SYNC_DL Code Transmission Reconfiguration]

When the [3.84Mcps TDD - Cell Sync Burst Transmission Reconfiguration Information] [1.28Mcps TDD - SYNC_DL Code Transmission Reconfiguration Information LCR] is present, the Node B shall reconfigure the transmission of the [3.84Mcps TDD - cell synchronisation burst] [1.28Mcps TDD - SYNC_DL Code] according to the parameters given in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message.

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *Cell Sync Burst Code* IE, the Node B shall reconfigure the synchronisation code in the cell according to the *Cell Sync Burst Code* IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *Cell Sync Burst Code Shift* IE, the Node B shall reconfigure the synchronisation code shift in the cell according to the *Cell Sync Burst Code Shift* IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *DL Transmission Power* IE, the Node B shall reconfigure the DL transmission power of the cell synchronisation burst in the cell according to the *DL Transmission Power* IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *DwPCH Power* IE, the Node B shall store the DwPCH power according to the *DwPCH Power* IE value. For the duration of those subsequent transmissions of the DwPCH which are specifically for the purpose of Node B synchronisation the power of the DwPCH shall be set to the stored power. During subsequent transmissions of the DwPCH which are for normal operation the power of the DwPCH shall assume its normal level.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *Sync_DL Code ID* IE, the Node B shall reconfigure the SYNC_DL Code in the cell according to the *Sync_DL Code ID* IE value.]

8.2.21.2.5 [3.84Mcps TDD - Cell Sync Burst Measurement Reconfiguration] [1.28Mcps TDD - SYNC_DL Code Measurement Reconfiguration]

When the [3.84Mcps TDD - Cell Sync Burst Measurement Reconfiguration Information] [1.28Mcps TDD - Cell SYNC_DL Code Measurement Reconfiguration Information LCR] is present, the Node B shall reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements according the parameters given in the message.

If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the [3.84Mcps TDD -Cell Sync Burst Measurement Information] [1.28Mcps TDD - SYNC_DL Code Measurement Information LCR], the measurements shall apply on the individual [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Codes] on the requested Sync Frame number.

[1.28Mcps TDD - When the *Propagation Delay Compensation* IE is present in the SYNC_DL Code Measurement Information LCR, the Node B shall, if supported, perform the following functions: (1) use the respective SYNC_DL measurement (after potential averaging) to perform the self-adjustment of the respective cell"s timing at the end of a Synchronisation Cycle; (2) include the *Accumulated Clock Update* IE in the CELL SYNCHRONISATION REPORT message, to report the total accumulated amount of timing adjustments since the last report to the RNC. This Accumulated Clock Update value shall also include the adjustments which may have been performed by explicit order from the CRNC in the CELL SYNCHRONISATION ADJUSTMENT REQUEST message. The times for self-adjustment at the end of a synchronisation cycle shall be independent from the measurement reporting characteristics; the Accumulated Adjustment values shall be included in the CELL SYNCHRONISATION REPORT messages without influencing the frequency of measurement reporting.]

If the *Synchronisation Report Type* IE is provided, the measurement reporting shall apply according the parameter given in the message.

Synchronisation Report characteristics:

The *Synchronisation Report Characteristics* IE indicates how the reporting of the cell synchronisation burst measurement shall be performed.

If the *Synchronisation Report Characteristics Type* IE is set to "Frame related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurement after every measured frame.

If the *Synchronisation Report Characteristics Type* IE is set to "SFN period related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements after every SFN period.

If the *Synchronisation Report Characteristics Type* IE is set to "Cycle length related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements after every cycle length within the SFN period.

If the *Synchronisation Report Characteristics Type* IE is set to "Threshold exceeding", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurement when the [3.84Mcps TDD - Cell Synchronisation Burst timing] [1.28Mcps TDD - SYNC_DL Code timing] rises or falls more than the requested threshold value compared to the arrival time in synchronised state which is represented by the [3.84Mcps TDD - *Cell Sync Burst Arrival Time* IE] [1.28Mcps TDD - *SYNC_DL Code ID Arrival Time* IE].

[3.84Mcps TDD - If the *Cell Sync Burst Arrival Time* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, it indicates to the Node B the reference time at which the reception of the cell synchronisation burst of a neighbouring cell is expected.]

[3.84Mcps TDD - If the *Cell Sync Burst Timing Threshold* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, the Node B shall use this new threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

[1.28Mcps TDD - If the SYNC_DL Code ID Arrival Time IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the SYNC_DL Code of a neighbouring cell is expected.]

[1.28Mcps TDD - If the *SYNC_DL Code ID Timing Threshold* IE is included in the *SYNC_DL Code Information LCR* IE of the *Synchronisation Report Characteristics* IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

Response message:

If the Node B was able to reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission and/or measurement requested by the CRNC, it shall respond with the CELL SYNCHRONISATION RECONFIGURATION RESPONSE message sent over the Node B Control Port.

8.2.21.3 Unsuccessful Operation

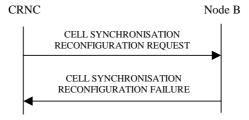


Figure 27F Cell Synchronisation Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot reconfigure the requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code], the CELL SYNCHRONISATION RECONFIGURATION FAILURE message shall be sent to the CRNC. The message shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Cell Synchronisation not supported

- Power level not supported
- Measurement Temporarily not Available

Miscellaneous Cause:

- O&M Intervention
- HW failure

8.2.21.4 Abnormal Conditions

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8.2.22 Cell Synchronisation Reporting [TDD]

8.2.22.1 General

This procedure is used by a Node B to report the result of [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements requested by the CRNC with the Cell Synchronisation Initiation or Cell Synchronisation Reconfiguration procedure.

8.2.22.2 Successful Operation



Figure 27G Cell Synchronisation Reporting procedure, Successful Operation

If the requested synchronisation measurement reporting criteria are met, the Node B shall initiate a Cell Synchronisation Reporting procedure. The CELL SYNCHRONISATION REPORT message shall use the Node B Control Port.

In the steady state phase when several [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Codes] shall be measured per Sync Frame number, the sequence of the reported measured values shall be the same as defined in the Cell Synchronisation Reconfiguration procedure.

[1.28Mcps TDD - The Node B shall, if supported, include the *Accumulated Clock Update* IE in the CELL SYNCHRONISATION REPORT message whenever the CRNC has included at least one instance of the *Propagation Delay Compensation* IE in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message. The *Accumulated Clock Update* IE shall include the accumulated timing adjustment which has been done as commanded by the CRNC, as well as by self-adjustment, since the last *Accumulated Clock Update* IE report.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement defined in TS 25.123 [23], the Cell Sync Burst not available shall be reported.

8.2.22.3 Abnormal Conditions

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8.2.23 Cell Synchronisation Termination [TDD]

8.2.23.1 General

This procedure is used by the CRNC to terminate a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission or measurement previously requested by the Cell Synchronisation Initiation procedure or Cell Synchronisation Reconfiguration procedure.

8.2.23.2 Successful Operation



Figure 27H Cell Synchronisation Termination procedure, Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate [3.84Mcps TDD - transmission of Cell Synchronisation Bursts or reporting of Cell Synchronisation Burst measurements] [1.28Mcps TDD - transmission of SYNC_DL Codes or reporting of SYNC_DL Code measurements] corresponding to the *CSB Transmission ID* IE or *CSB Measurement ID* IE.

8.2.23.3 Abnormal Conditions

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8.2.24 Cell Synchronisation Failure [TDD]

8.2.24.1 General

This procedure is used by the Node B to notify the CRNC that a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission or synchronisation measurement procedure can no longer be supported.

8.2.24.2 Successful Operation



Figure 27I Cell Synchronisation Failure procedure, Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION FAILURE INDICATION message, sent from the Node B to the CRNC using the Node B Control Port, to inform the CRNC that a previously requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Codes] can no longer be supported.

If the transmission of a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] has failed, then the Node B shall include the *CSB Transmission ID* IE in the CELL SYNCHRONISATION FAILURE

INDICATION message to uniquely identify the concerned [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] Transmission.

If the measurement of a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] has failed, then the Node B shall include the *CSB Measurement ID* IE in the CELL SYNCHRONISATION FAILURE INDICATION message to uniquely identify the concerned [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] Measurement.

8.2.24.3 Abnormal Conditions

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8.2.25 Cell Synchronisation Adjustment [TDD]

8.2.25.1 General

The purpose of Cell Synchronisation Adjustment procedure is to allow the CRNC to adjust the timing of the radio transmission of a cell within a Node B for time alignment.

8.2.25.2 Successful Operation

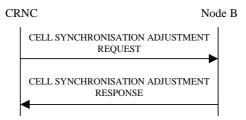


Figure 27J Cell Synchronisation Adjustment, Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION ADJUSTMENT REQUEST message sent by the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B adjusts its timing according to the parameters given in the message.

If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *Frame Adjustment Value* IE the Node B shall apply the frame adjustment in the cell according to the *Frame Adjustment Value* IE value.

[3.84Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *Timing Adjustment Value* IE the Node B shall apply the timing adjustment in the cell according to the *Timing Adjustment Value* IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *Timing Adjustment Value LCR* IE the Node B shall apply the timing adjustment in the cell according to the *Timing Adjustment Value LCR* IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *DL Transmission Power* IE, the Node B shall apply the transmission power of the Cell Synchronisation Burst according to the *DL Transmission Power* IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *DwPCH Power* IE, the Node B shall store the DwPCH power according to the *DwPCH Power* IE value. For the duration of those subsequent transmissions of the DwPCH which are specifically for the purpose of Node B synchronisation the power of the DwPCH shall be set to the stored power. During subsequent transmissions of the DwPCH which are for normal operation the power of the DwPCH shall assume its normal level.]

If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *SFN* IE, the Node B shall apply the synchronisation adjustment starting with the SFN number indicated in the message.

When the cell synchronisation adjustment is successfully done by the Node B, the Node B shall respond with a CELL SYNCHRONISATION ADJUSTMENT RESPONSE message.

8.2.25.3 Unsuccessful Operation

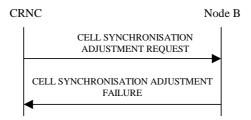


Figure 27K Cell Synchronisation Adjustment, Unsuccessful Operation

If the Node B cannot perform the indicated cell synchronisation adjustment due to hardware failure or other problem it shall send the CELL SYNCHRONISATION ADJUSTMENT FAILURE as a response.

Typical cause values are as follows:

Radio Network Layer Cause

- Cell Synchronisation Adjustment not supported
- Power level not supported

Miscellaneous Cause

- O&M Intervention
- HW failure

8.2.25.4 Abnormal Conditions

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8.2.26 Information Exchange Initiation

8.2.26.1 General

This procedure is used by a CRNC to request the initiation of information provisioning from a Node B.

8.2.26.2 Successful Operation

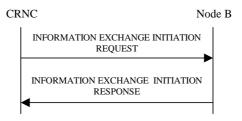


Figure 27L: Information Exchange Initiation procedure, Successful Operation

The procedure is initiated with the INFORMATION EXCHANGE INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall provide the requested information according to the *Information Type Item* IE. Unless specified below, the meaning of the parameters are given in other specifications.

If the Information Type IE contains a GANSS Generic Data IE, at least one of the GANSS Navigation Model And Time Recovery, GANSS Time Model GNSS-GNSS, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity, GANSS Data Bit Assistance, GANSS Additional Navigation Models And Time Recovery, GANSS Additional UTC Models, GANSS Auxiliary Information IEs shall be present in the GANSS Generic Data IE.

- If the *GANSS Generic Data* IE does not contain the *GANSS ID* IE, the Node B shall assume that the corresponding GANSS is "Galileo".

Information Report Characteristics

The Information Report Characteristics IE indicates how the reporting of the information shall be performed.

If the *Information Report Characteristics* IE is set to "On Demand", the Node B shall report the requested information immediately.

If the *Information Report Characteristics* IE is set to "Periodic", the Node B shall immediately report the requested information and then shall periodically initiate the Information Reporting procedure for all the requested information, with the requested reporting frequency.

If the *Information Report Characteristics* IE is set to "On Modification", the Node B shall immediately report the requested information if available. If the requested information is not available at the moment of receiving the INFORMATION EXCHANGE INITIATION REQUEST message, but expected to become available after some acquisition time, the Node B shall initiate the Information Reporting procedure when the requested information becomes available. The Node B shall then initiate the Information Reporting procedure in accordance to the following conditions related to the *Information Type* IE:

- 1) If the *Information Type Item* IE is set to "DGPS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IODE.
- 2) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Navigation Model & Time Recovery", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred regarding either the IODC or the list of visible satellites, identified by the *Sat ID* IEs.
- 3) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Ionospheric Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- 4) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS UTC Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred in the t_{ot} or WN_t parameter.
- 5) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Almanac", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change in the t_{oa} or WN_a parameter has occurred.
- 6) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Real-Time Integrity", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- 7) If the *Information Type Item* IE is set to "DGANSS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IOD.
- 8) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Navigation Model And Time Recovery* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the *Sat ID* IEs.
- 9) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Ionospheric Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.

- 10) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Time Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
- 11) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS UTC Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the t_{ot} or WN_t parameter.
- 12) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Almanac* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change in the T_{oa} , IOD_a or Week Number parameter has occurred.
- 13) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Real Time Integrity* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred
- 14) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Data Bit Assistance* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
- 15)If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Additional Navigation Models And Time Recovery* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the *Sat ID* IEs.
- 16) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Additional Ionospheric Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
- 17) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Additional UTC Models* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the t_{ot}, WN_{ot}, WN_t, or N^A parameter.
- 18) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Earth Orientation Parameters* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the t_{EOP} parameter.
- 19) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Auxiliary Information* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the *Signals Available* or *Channel Number* IE parameter.
- 20) If any of the above *Information Type* IEs becomes temporarily unavailable, the Node B shall initiate the Information Reporting procedure for this specific Information Item by indicating "Information Not Available" in the *Requested Data Value Information* IE. If the Information becomes available again, the Node B shall initiate the Information Reporting procedure for this specific Information.

Response message

If the Node B is able to initiate the information provision requested by the CRNC, it shall respond with the INFORMATION EXCHANGE INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Information Exchange ID that was included in the INFORMATION EXCHANGE INITIATION REQUEST message. When the *Report Characteristics* IE is set to "On Modification" or "Periodic", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the requested data if the data are available. When the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Requested Data Value* IE.

If the Requested DataValue IE contains the GANSS Common Data IE, at least one of the GANSS Ionospheric Model, GANSS RX Pos, GANSS Additional Ionospheric Model, or GANSS Earth Orientation Parameters IEs shall be present.

Any GANSS Generic Data IE associated with a given GANSS included in the Requested DataValue IE shall contain at least one of the DGANSS Corrections, GANSS Navigation Model And Time Recovery, GANSS Time Model, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity, GANSS Data Bit Assistance, GANSS Additional Time Models, GANSS Additional Navigation Models And Time Recovery, GANSS Additional UTC Models, or GANSS Auxiliary Information IEs.

- If the GANSS Generic Data IE does not contain the GANSS ID IE, the corresponding GANSS is "Galileo".
- The *DGANSS Corrections* IE contains one or several *DGANSS Information* IE(s), each of them associated with a GANSS Signal. A *DGANSS Information* IE for a particular GANSS that does not contain the *GANSS Signal ID* IE is by default associated with the default signal defined in TS 25.331 [18], clause 10.3.3.45a.
- The *GANSS Real Time Integrity* IE contains one or several *Satellite Information* IEs, each of them associated with a satellite and a GANSS Signal. A *Satellite Information* IE for a particular GANSS that does not contain the *Bad GANSS Signal ID* IE is by default associated with all the signals of the corresponding satellite (see OS SIS ICD [39], IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], DTFA01-96-C-00025 [46], IS-QZSS [47], [48]).

If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Time Model GNSS-GNSS* IE with exactly one bit set to value "1", the Node B shall include the *GANSS Time Model* IE in the *Requested Data Value* IE with the requested time information.

If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Time Model GNSS-GNSS* IE with more than one bit set to value "1, the Node B shall include the *GANSS Additional Time Models* IE in *Requested Data Value* IE with the requested time information for each GANSS.

If the *Information Type Item* IE is set to "DGPS Corrections", the Node B shall include the *DGPS Corrections* IE in *Requested Data Value* IE with the *DGNSS Validity Period* IE included, if available.

If the *Information Type Item* IE is set to "DGANSS Corrections", the Node B shall include the *DGANSS Corrections* IE in *Requested Data Value* IE with the *DGNSS Validity Period* IE included, if available.

8.2.26.3 Unsuccessful Operation

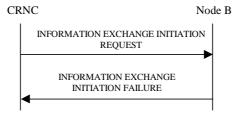


Figure 27M: Information Exchange Initiation procedure, Unsuccessful Operation

If the Information Type Item received in the *Information Type Item* IE indicates a type of information that cannot be provided, the Node B shall regard the Information Exchange Initiation procedure as failed.

If the requested information provision cannot be initiated, the Node B shall send the INFORMATION EXCHANGE INITIATION FAILURE message over the Node B control port. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause

- Information temporarily not available.
- Information Provision not supported for the object.

8.2.26.4 Abnormal Conditions

If the *Information Report Characteristics* IE is set to "On Modification", and the *Information Type Item* IE is set to "DGPS Corrections", or "DGANSS Corrections", but the *Information Threshold* IE is not received in the INFORMATION EXCHANGE INITIATION REQUEST message, the Node B shall regard the Information Exchange Initiation procedure as failed.

If the *Information Type Item* IE is not set to "DGPS Correction" or "DGANSS Corrections", the *Information Report Characteristics* IE is set to "On Modification" and the *Information Threshold* IE is included in the INFORMATION EXCHANGE INITIATION REQUEST message, the Node B shall regard the Information Exchange Initiation procedure as failed.

8.2.27 Information Reporting

8.2.27.1 General

This procedure is used by a Node B to report the information requested by the CRNC with the Information Exchange Initiation procedure.

8.2.27.2 Successful Operation



Figure 27N: Information Reporting procedure, Successful Operation

If the requested information reporting criteria are met, the Node B shall initiate the Information Reporting procedure. The INFORMATION REPORT message shall use the Node B Control Port. Unless specified below, the meaning of the parameters are given in other specifications.

The *Information Exchange ID* IE shall be set to the Information Exchange ID provided by the CRNC when initiating the Information Exchange with the Information Exchange Initiation procedure.

The Requested Data Value IE shall include at least one IE containing the data to be reported.

8.2.27.3 Abnormal Conditions

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8.2.28 Information Exchange Termination

8.2.28.1 General

This procedure is used by the CRNC to terminate the provision of information previously requested by the Information Exchange Initiation procedure.

8.2.28.2 Successful Operation



Figure 270: Information Exchange Termination procedure, Successful Operation

This procedure is initiated with an INFORMATION EXCHANGE TERMINATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate the provision of information corresponding to the Information Exchange ID.

8.2.28.3 Abnormal Conditions

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8.2.29 Information Exchange Failure

8.2.29.1 General

This procedure is used by the Node B to notify the CRNC that information previously requested by the Information Exchange Initiation procedure can no longer be reported.

8.2.29.2 Successful Operation



Figure 27P: Information Exchange Failure procedure, Successful Operation

This procedure is initiated with the INFORMATION EXCHANGE FAILURE INDICATION message sent from the Node B to the CRNC using the Node B Control Port to inform the CRNC that information previously requested by the Information Exchange Initiation procedure can no longer be reported. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

8.2.30 MBMS Notification Update

8.2.30.1 General

This procedure is used to update the MBMS Notification Indicators to be sent over the MICH.

8.2.30.2 Successful Operation



Figure 27Q: MBMS Notification Update procedure, Successful Operation

The procedure is initiated with an MBMS NOTIFICATION UPDATE COMMAND message sent from the CRNC to the Node B using the Node B Control Port.

The Node B shall use the different NIs in the *NI Information* IE to generate, as specified in ref. TS 25.211 [7], the notification indicators it shall transmit on the MICH starting at the next coming MICH CFN equal to the value in the *MICH CFN* IE and for a duration equal to the Modification Period. If the value of *MICH CFN* IE is the same as the one in a previously received MBMS NOTIFICATION UPDATE COMMAND message, and if the MICH CFN occurrence has not been reached yet, the Node B shall overwrite the value of the *NI Information* IE in the previously received MBMS NOTIFICATION UPDATE COMMAND message.

If the *Modification Period* IE is included in the MBMS NOTIFICATION UPDATE COMMAND message, the Node B shall use this as the new Modification Period starting at the next coming MICH CFN equal to the value in the *MICH*

CFN IE. If the value of *MICH CFN* IE is the same as the one in a previously received MBMS NOTIFICATION UPDATE COMMAND message, and if the MICH CFN occurrence has not been reached yet, the Node B shall overwrite the value of the *Modification Period* IE in the previously received MBMS NOTIFICATION UPDATE COMMAND message.

If the *Modification Period* IE is not included in the MBMS NOTIFICATION UPDATE COMMAND message, the Node B shall use the lastest stored Modification Period.

8.2.30.3 Abnormal Conditions

If the *Modification Period* IE is not included in the MBMS NOTIFICATION UPDATE COMMAND message and no Modification Period is stored in the Node B, the Node B shall initiate the Error Indication procedure.

8.2.31 UE Status Update [FDD and 1.28Mcps TDD]

8.2.31.1 General

This procedure is used by the CRNC to inform NodeB that one or several E-RNTIs, previously allocated to UEs in CELL_FACH state, may be released as the UE no longer use the E-RNTI.

8.2.31.2 Successful Operation

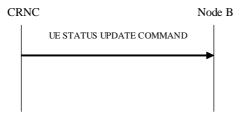


Figure 27R: UE Status Update procedure, Successful Operation

The procedure is initiated with a UE STATUS UPDATE COMMAND message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception of the UE STATUS UPDATE COMMAND message, the Node B may use the information about vacant E-RNTI in *Vacant E-RNTI* IE in *Cell E-RNTI status information* IE to determine which E-RNTIs are no longer used in the cell and thus allowed to be allocated to another UE using E-DCH

8.2.31.3 Abnormal Conditions

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8.3 NBAP Dedicated Procedures

8.3.1 Radio Link Addition

8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B Communication Context for this UE in the Node B.

The Radio Link Addition procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.1.2 Successful Operation

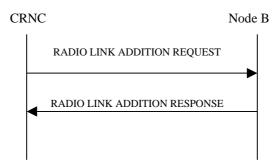


Figure: 28 Radio Link Addition procedure, Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon reception, the Node B shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK ADDITION REQUEST message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

Physical Channels Handling:

[TDD - If the [3.84Mcps TDD - *UL DPCH Information IE*] [1.28Mcps TDD - *UL DPCH Information LCR* IE] [7.68Mcps TDD - *UL DPCH Information 7.68Mcps IE*] is present, the Node B shall configure the new UL DPCH(s) according to the parameters given in the message.]

[TDD - If the [3.84Mcps TDD - *DL DPCH Information IE*] [1.28Mcps TDD - *DL DPCH Information LCR* IE] [7.68Mcps TDD - *DL DPCH Information 7.68Mcps IE*] is present, the Node B shall configure the new DL DPCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall transmit TPC /SS bits on a PLCCH according to the parameters given in the message.]

[FDD - Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Compressed Mode Deactivation Flag* IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD - If the Node B Communication Context is configured to use DPCH in the downlink and if the RADIO LINK ADDITION REQUEST message contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the *Transmission Gap Pattern Sequence Code Information* IE is set to "Code Change".]

[FDD - DL Code Information]:

[FDD - When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to ref. TS 25.212 [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

[TDD - CCTrCH Handling]:

[TDD - If the *UL CCTrCH Information* IE is present, the Node B shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC UL Step Size* IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[TDD - If the *DL CCTrCH Information* IE is present, the Node B shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD - If the *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE, the Node B shall configure the downlink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the *TDD TPC DL Step Size* IE of the lowest numbered DL CCTrCH whose *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE. If no *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE, it shall use the step size configured in other radio link.]

[1.28 Mcps TDD - If the *TDD TPC DL Step Size* IE is not included in the *DL CCTrCH Information* IE, the Node B shall use the *E-AGCH TPC step size* IE in the *E-PUCH Information LCR* IE in the *E-DCH Information 1.28Mcps* IE for HS-SCCH inner loop power control related operation.]

Radio Link Handling:

Diversity Combination Control:

The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not.

- If the Diversity Control Field IE is set to "May", the Node B shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

[FDD - The signalled *Diversity Control Field* IE is only applicable for DCHs. In case of E-DCH, if any UARFCN(s) of the cells in the added RL(s) is not equal to at least one of the UARFCN(s) of the cells in the existing RL(s) in the Node B Communication Context, the Diversity Control Field, for those RL(s) shall be assumed to be set to "May", otherwise it shall be assumed to be set to "Must".]

When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

In the case of not combining a RL with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or a RL previously listed in the RADIO LINK ADDITION RESPONSE message, the Node B shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that no combining is done. In this case, the Node B shall:

- include in the DCH Information Response IE both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message. [FDD for which the Transport Bearer Not Requested Indicator IE was not included].
- [FDD include in the RADIO LINK ADDITION RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK ADDITION REQUEST message.]
- [FDD For E-DCH, include in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearers to be established for each E-DCH MAC-d flow of this RL for which the *Transport Bearer Not Requested Indicator* IE was not included.]

In the case of combining with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, the Node B shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK

ADDITION RESPONSE message that the RL is combined and if the ALCAP is not used [FDD - and the transport bearer for this DCH is already established], the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK ADDITION REQUEST message, shall not be used. In this case, the *RL ID* IE indicates (one of) the previously established RL(s) or a RL previously listed in this RADIO LINK ADDITION RESPONSE message with which the new RL is combined.

[FDD - In the case of combining with an E-DCH RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, one of the previously established RLs or a RL previously listed in this RADIO LINK ADDITION RESPONSE message including the *E-DCH FDD Information Response* IE shall be regarded as the RL with which the concerned E-DCH RL is combined. In case E-DCH RL is established for the first time, the Node B shall include *E-DCH FDD Information Response* IE instead of using the Diversity Indication of DCH RL in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. It shall include in the *E-DCH FDD Information Response* IE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearers to be established for each E-DCH MAC-d flow of this E-DCH RL for which the *Transport Bearer Not Requested Indicator* IE was not included.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Additional E-DCH Cell Information RL Add Req* IE, then:]

- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD if Separate Iub Transport Bearer Mode is used in the new configuration, then:]
 - [FDD the Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow and use the *Transport Bearer Not Requested Indicator* IE in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE to determine the transport bearer configuration in the new configuration for the MAC-d flow of the Secondary Uplink Frequency.]
 - [FDD If the *Transport Layer Address* IE and *Binding ID* IE is included for an E-DCH MAC-d flow in the *Additional E-DCH MAC-d Flows Specific Information* IE in the *Additional E-DCH FDD Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE in the *Additional E-DCH MAC-d Flow Specific Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the *Additional E-DCH Cell Information Response* IE for establishment of a transport bearer for every E-DCH MAC-d flow being established.]

In the case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the DCHs in a set of coordinated DCHs [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included].

[TDD - The Node B shall include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH.]

[FDD - Transmit Diversity]:

[FDD - If the *Transmit Diversity Indicator* IE and/or *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE is included in the RADIO LINK ADDITION REQUEST message, the Node B shall activate/deactivate the Transmit Diversity for each new Radio Link and/or secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE and/or *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE and the already known diversity mode for the physical channel.]

DL Power Control:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing RLs for this Node B Communication Context. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.214 [10], subclause 5.2.1.2) with DPC MODE currently configured for the relevant Node B Communication Context and the downlink power control procedure (see subclause 8.3.7).]

[3.84 Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.224 [21], subclause 4.2.3.4).]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the initial DL power and ignore the *DL Time Slot ISCP info LCR*, otherwise the initial DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in TS 25.224 [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing RL/timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.TS 25.224 [21], subclause 5.1.2.4).]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH or on the F-DPCH of the RL. If no *Maximum DL Power* IE is included, any Maximum DL power stored for already existing RLs for this Node B Communication Contextshall be applied. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the δP_{curr} , as described in ref.TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall store this value and never transmit with a lower power on any DL DPCH or on the F-DPCH of the RL. If no *Minimum DL Power* IE is included, any Minimum DL power stored for already existing RLs for this Node B Communication Context shall be applied.]

[3.84 Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall determine the maximum CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the *Maximum DL Power* IE included in the *RL Information* IE. If no *Maximum DL Power* IE is included (even if *CCTrCH Maximum DL Transmission Power* IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]

[3.84 Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall determine the minimum CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the *Minimum DL Power* IE included in the *RL Information* IE. If no *Minimum DL Power* IE is included (even if *CCTrCH Minimum DL Transmission Power* IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no *Maximum DL Power* IE is included, any maximum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no *Minimum DL Power* IE is included, any minimum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[3.84Mcps TDD and 7.68Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled (TS 25.435 [24]), with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Initial DL Transmission Power IE, the Node B shall determine the initial DL power for each timeslot within a DSCH type CCTrCH by the following rule: If both the CCTrCH Initial DL Transmission Power IE, included in the DL CCTrCH Information IE, and the DL Time Slot ISCP Info LCR IE, included in the RL Information IE, are included then the Node B shall use that power for the PDSCH and ignore the Initial DL Transmission Power IE included in the RL Information IE, otherwise the initial DL Power is the Initial DL Transmission Power IE included in the RL Information IE and if DL Time Slot ISCP info LCR IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in TS 25.224 [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each DL PDSCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included, the Node B shall use any transmission power level currently used on already existing RL/timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.224 [21], subclause 5.1.2.4).]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable PDSCH. If no *Maximum DL Power*

IE is included, any maximum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable PDSCH. If no *Minimum DL Power* IE is included, any minimum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *DL Time Slot ISCP Info* IE, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref. TS 25.224 [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the Node B shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.7. In this case, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. P_{init} shall be set to the power level indicated by the *Initial DL Transmission Power* IE (if received) or the decided DL TX power level on each DL channelisation code of a RL based on power level of existing RLs.]

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK ADDITION REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to TS 25.224 [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Idle Interval Information IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to TS 25.331 [18].

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK ADDITON REQUEST message includes the *Measurement occasion pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to TS 25.331 [18].]

[FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE for a Radio Link not indicated by the *HS-PDSCH RL ID* IE in the *HS-DSCH Serving Cell Change Information* IE the Node B shall if supported preconfigure the indicated cells or Enhanced HS Serving Cell Change according to TS 25.308 [49]:

- [FDD – The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving

HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK ADDITION REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of *Secondary C-ID*s in the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK ADDITION REQUEST message.]

- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified:]
 - [FDD - by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell]
 - [FDD - by the *Num Secondary HS-SCCH Codes* IE in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells]
- [FDD If *Num Primary HS-SCCH Codes* IE or *Num Secondary HS-SCCH Codes* IE is not included in the message the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].]
- [FDD The Node B shall return these codes in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message.]
- [FDD The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell"s HS-SCCH codes in the *HS-SCCH Preconfigured Codes* IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in TS 25.331 [18].]
- [FDD The Node B shall include, in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK ADDITION FAILURE message, IEs according to the rules defined for HS-DSCH Setup at Serving HS-DSCH Radio Link Change and:]
 - [FDD - if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *HARQ Preamble Mode Activation Indicator* IE]
 - [FDD - if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE or in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE the *MIMO N/M Ratio* IE]
 - [FDD if HS-DSCH MAC-d PDU Size Format IE is included in the HS-DSCH Preconfiguration Setup IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used for the cell in the preconfigured configuration the HS-DSCH TB Size Table Indicator IE for each preconfigured cell]
 - [FDD - if Sixtyfour QAM Usage Allowed Indicator is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]
 - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
 - [FDD - If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B shall store this information in the preconfigured configuration.]
 - [FDD - If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B may store this information in the preconfigured configuration.]
 - [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH Preconfiguration Info* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The Node B shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK ADDITION FAILURE message the *E-DCH FDD DL Control Channel*

Information containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]

- [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]
- [FDD The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD –If the *HS-DSCH Preconfiguration Setup* IE includes the *E-DCH Indicator* IE for a secondary cell, the Node B shall include in the *Additional E-DCH Preconfiguration Information* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message or in the *Successful RL Information Response* IE of the RADIO LINK ADDITION FAILURE message the *E-DCH FDD DL Control Channel Information* IE containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the *E-DCH Indicator* IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]
 - [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
 - [FDD The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving Additional E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Non-Serving Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information B* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK ADDITION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK ADDITION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE, the *New non-serving RL E-DCH FDD DL Control Channel Information B* IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information C* for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK ADDITION RESPONSE message.]

General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included].

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH, then the Node B shall not establish a transport bearer for the concerned DCH and shall include the *Transport Bearer Not Setup Indicator* IE for every corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH, the Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific E-DCH Information* IE, the Node B may use the transport layer addresses and the binding identifiers received from the CRNC when establishing transport bearers for the MAC-d flows of the E-DCHs.

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", the Node B shall use synchronisation procedure B according to subclause 4.3.2.4 in TS 25.214 [10]. The Node B shall select the TPC pattern as if "first RLS indicator" is set to "first RLS" according to subclause 5.1.2.2.1.2 in TS 25.214 [10].]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to TS 25.211 [7].]

[FDD - Radio Link Set Handling]:

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Sets shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH information for all RLs in a RL Set shall be common.]

[FDD - After addition of the new RL(s), the UL out-of-sync algorithm defined in TS 25.214 [10] shall, for each of the previously existing and newly established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in TS 25.214 [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK ADDITION RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

[FDD - Serving HS-DSCH Radio Link Change]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE, then *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD In the new configuration the Node B shall allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.]
- [FDD The Node B may include the *HARQ Memory Partitioning* IE in the *HS-DSCH FDD Information* Response IE in the RADIO LINK ADDITION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the Node B Communication Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new configuration, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - HS-DSCH Setup on a New Radio Link at Serving HS-DSCH Radio Link Change:]

[FDD - If the *HS-DSCH Information* IE is present in the *HS-DSCH Serving Cell Change Information* IE, then:]

- [FDD The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.]
- [FDD the *HS-DSCH Information* IE defines the new HS-DSCH configuration in the Node B to be used on the new HS-DSCH Radio Link.]
- [FDD The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. The *HARQ Memory Partitioning* IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the *MIMO Activation Indicator* IE is included in the *HS-DSCH Information* IE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.]
- [FDD The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If RADIO LINK ADDITION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK ADDITION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.]

- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref TS 25.214 [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the Node B shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK ADDITION RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the Node B shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels (TS 25.435 [24]) and MAC-hs (3GPP TS 25.321 [32]).]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then
 the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide
 the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the
 MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK
 ADDITION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B may use:]
 - [FDD a different HS-SCCH in consecutive TTIs for this UE.]
 - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE the Node B may use the supported HSDPA functions for this UE.
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD If the RADIO LINK ADDITION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *Priority Queue Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the NodeB shall, if supported, consider the data of the HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE in the *HS-DSCH Serving Cell Change Information* IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]
- [FDD If the *Serving Cell Change CFN* IE is included into the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the *Serving Cell Change CFN* IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous serving HS-PDSCH Radio Link.]
- [FDD If the Serving Cell Change CFN IE is not included into the RADIO LINK ADDITION REQUEST message, then the Node B shall include the Transport Layer Address IE and the Binding ID IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *HS-DSCH Information* IE is present in the *HS-DSCH Serving Cell Change Information* IE, then the Node B shall include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Node B needs a bearer re-arrangement, then the Node B may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If a reset of the MAC-hs is not required the Node B shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the requested Serving HS-DSCH Radio Link Change was successful or unsucessful, the Node B shall indicate this in the *HS-DSCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *HS-DSCH Serving Cell Change Information* IE includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]
 - [FDD The Node B shall configure the new Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation according to TS 25.214 [10].]
 - [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the Continuous Packet Connectivity HS-SCCH less Information Response IE in the HS-DSCH Serving Cell Change Information Response IE.]
 - [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *HS-DSCH Serving Cell Change Information* IE includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]
 - [FDD The Node B shall configure the concerned Node B Communication Context for Continuous Packet Connectivity DTX operation according to TS 25.214 [10].]

- [FDD – If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for Continuous Packet Connectivity DRX operation according to TS 25.214 [10].]

[FDD – Secondary Serving HS-DSCH Radio Link Change]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Additional HS Cell Information RL Addition* IE, then *HS-PDSCH RL ID* IE indicates the new secondary serving HS-DSCH Radio Link:]

- [FDD In the new configuration the Node B shall allocate the HS-PDSCH resources for the new Secondary Serving HS-PDSCH Radio Link. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Node B Communication Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - Secondary Serving HS-DSCH Setup on a New Radio Link at Secondary Serving HS-DSCH Radio Link Change:]

- [FDD The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.]
- [FDD The *HS-DSCH FDD Secondary Serving Information* IE defines the new secondary serving HS-DSCH configuration in the Node B to be used on the new secondary serving HS-DSCH Radio Link. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If Sixtyfour QAM will not be used for the secondary serving HS-DSCH Radio Link, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the *Additional HS Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *Diversity Mode* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE in the RADIO LINK ADDITION REQUEST message the Node B shall apply cell specific transmit diversity configuration and if the *Diversity Mode* IE is not set to "None" the Node B shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE.]
- [FDD If the *Serving Cell Change CFN* IE is included into the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new secondary serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous serving HS-PDSCH Radio Link.]
- [FDD If the requested Secondary Serving HS-DSCH Radio Link Change was successful or unsucessful, the Node B shall indicate this in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the *Additional HS Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - Additional Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Additional E-DCH Cell Information Addition* IE in the *Additional E-DCH Cell Information RL Add Req* IE and *HS-PDSCH RL ID* IE the *Additional HS Cell Information RL Addition* IE, the *HS-PDSCH RL ID* IE indicates the new Additional Serving E-DCH Radio Link:]

- [FDD In the new configuration the Node B shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The Node B may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Links in the Node B Communication Context that have not been included in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC, or earlier. In this case, in the new configuration the Node B shall, if applicable, de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the *Serving Cell Change CFN* IE is not included then the Node B shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link.]
- [FDD If the addition of the requested Additional Serving E-DCH Radio Link was successful but the Additional Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - E-DCH]:

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE, then for every such RL:]

- [FDD The Node B shall setup the E-DCH resources as configured in the Node B Communication Context.]
- [FDD The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in RL Information Response IE for every RL indicated by the E-DCH RL Indication IE, set to 'E-DCH' in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the E-RGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE, then *Serving E-DCH RL* IE indicates the new Serving E-DCH Radio Link:]

- [FDD If the new Serving E-DCH RL is in this Node B:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
 - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the new serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK ADDITION RESPONSE message for the new serving E-DCH RL.]
- [FDD The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Links in the Node B Communication Context that have not been included in the *E-DCH FDD DL Control Channel Information* IE in *RL Information Response* IE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD If the *Serving Cell Change CFN* IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving E-DCH Radio Link.]
- [FDD If the addition of the requested Serving E-DCH Radio Link was successful but the Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes an *E-DPCH Information* IE it defines the new E-DPCH configuration in the Node B to be used on the new E-DCH Radio Link and, the Node B shall use the new parameters for the related resource allocation operations.]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10].]

[FDD - If the *E-TFCI Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in TS 25.214 [10].]

[FDD - If the RADIO LINK ADDITION REQUEST message includes an *E-DPCH Information* IE, which contains the *Minimum Reduced E-DPDCH Gain Factor* IE, then the Node B shall use the value to determine the applicable minimum gain factor ($\beta_{ed,k,reduced,min}$) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the Node B Communication Context, the Node B may use the default value defined in TS 25.331 [18].

[FDD - E-DCH Setup on a new Radio Link:]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK ADDITION REQUEST message:]

- [FDD the *E-DCH FDD Information* IE defines the new E-DCH FDD configuration in the Node B to be used on the new E-DCH Radio Link.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE, then the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size*Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD

 Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use

 Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel

- and use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32])
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for
 the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding
 E-AGCH in the E-DCH FDD DL Control Channel Information IE in the E-DCH Serving Cell Change
 Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
 - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new configuration and include the new configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
 - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK ADDITION RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
 - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to 3GPP TS 25.321 [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to 3GPP TS 25.321 [32].]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
 - [FDD if the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]
 - [FDD if the Node B does not establish a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]

[FDD - Additional E-DCH Setup:]

[FDD - If the *Additional E-DCH Cell Information RL Add Req* IE is present in the RADIO LINK ADDITION REQUEST message and the choice of *Setup Or Addition Of E-DCH On Secondary UL Frequency* is "Setup", then the *Additional E-DCH Cell Information Setup* IE defines the new configuration and then:]

- [FDD If the *C-ID* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *C-ID* IE indicates the cell in which the additional E-DCH shall be setup]
 - [FDD The Node B shall setup the Additional E-DCH on the secondary uplink frequency and setup the requested Additional E-DCH resources on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD If the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *E-DCH Additional RL ID* IE indicates the existing RL on which the Additional E-DCH shall be setup.]
 - [FDD The Node B shall setup the Additional E-DCH on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE]

- [FDD The Node B shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *DL Power Balancing Information* IE and/or the *Minimum Reduced E-DPDCH Gain Factor* IE are present in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Secondary UL Frequency Activation State* IE is present in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the *F-DPCH Slot Format* IE is present in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Primary CPICH Usage For Channel Estimation* IE, the *Secondary CPICH Information* IE, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-HICH Power Offset* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Processing Overload Level IE and/or the E-DCH Minimum Set E-TFCI IE are present in the Additional E-DCH FDD Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK ADDITION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD*

Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Add IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. If the *Serving Cell Change CFN* IE is not included then the Node B shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link.]

[FDD – Additional E-DCH RL Addition:]

[FDD - If the *Additional E-DCH Cell Information RL Add Req* IE is present in the RADIO LINK ADDITION REQUEST message and the choice of *Setup Or Addition Of E-DCH On Secondary UL Frequency* is "Addition", then the *Additional E-DCH Cell Information Addition* IE defines the new configuration and then:]

- [FDD The Node B shall setup the requested E-DCH resources as requested, or as configured in the Node B
 Communication Context, on the Radio Links indicated by the E-DCH Additional RL ID IE in the Additional EDCH RL Specific Information To Add IE. Non cell specific Radio Link related parameters and non cell specific
 E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell
 of the Primary uplink frequency.]
- [FDD if the *Multicell E-DCH Information* IE is included and contains the *Minimum Reduced E-DPDCH Gain Factor* IE, the Node B shall use the information in the same way as for the information used on the Primary uplink frequency.]
- [FDD I f the Additional E-DCH FDD Information IE is included and contains the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Minimum Set E-TFCI IE, the E-DCH Maximum Bitrate IE and/or the E-DCH Processing Overload Level IE, the Node B shall use the information in the same way as for the information used on the Primary uplink frequency.]
- [FDD If the Initial DL Transmission Power IE, the Maximum DL Power IE, the Minimum DL Power IE and/or the F-DPCH Slot Format IE are present in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *DL Reference Power* IE, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-HICH Power Offset* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Add* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK ADDITION REQUEST message includes the DL Reference Power IE, the Node B shall activate the power balancing and use the DL Reference Power IE for the power balancing procedure in the new Additional E-DCH RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.7. In this case, the Node B shall include the DL Power Balancing Activation Indicator IE in the *E-DCH Additional RL Specific Information Response* IE in the *Additional E-DCH FDD Information Response* IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. P_{init} shall be set to the power level indicated by the Initial DL Transmission Power IE (if received) in the *Additional E-DCH RL Specific Information To Add* IE or the decided DL TX power level on each DL channelisation code of an Additional E-DCH RL based on power level of existing Additional E-DDCH RLs.]

- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - HS-DSCH Setup]:

[TDD - If the HS-DSCH Information IE is present in the RADIO LINK ADDITION REQUEST message, then]:

- [TDD The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]
- [TDD The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels (TS 25.435 [24]) and MAC-hs (3GPP TS 25.321 [32]).]
- [TDD The Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow. If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size* Extended IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information*

- IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].]
- [TDD The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If RADIO LINK ADDITION REQUEST message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK ADDITION REQUEST in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the *TSN-Length* IE is included in the *HS-DSCH TDD Information* IE, then the IE is used to indicate the TSN bits applied to the MAC-hs PDU frame.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK ADDITION REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *UE TSO Capability LCR* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple carriers and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to apply HSDPA resources distributed over multiple carriers, the Node B may indicate the number of carriers actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UsedFrequency* IE in the *HS-SCCH Specific Information Response LCR* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UARFCN* IE in the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the RADIO LINK ADDITION RESPONSE message.]
 - [1.28 Mcps TDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH TDD Information* IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH

dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - Intra-Node B Serving HS-DSCH Radio Link Change]:

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link]:

- [TDD The Node B may include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - E-DCH]:

[TDD - If the [3.84Mcps TDD - *E-DCH Information* IE][1.28Mcps TDD - *E-DCH Information* 1.28Mcps IE] [7.68Mcps TDD - *E-DCH Information* 7.68Mcps IE] is present in the RADIO LINK ADDITION REQUEST message:]

- [TDD The Node B shall setup the requested E-DCH resources on the Radio Link indicated by the *E-DCH Serving RL* IE.]
- [TDD If the *TNL QoS* IE is included in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation.]
- [TDD If in the RADIO LINK ADDITION REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Non-scheduled" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants are configured for that E-DCH MAC-d flow and shall use the information within the [3.84Mcps TDD *E-DCH Non-scheduled Grant Information TDD* IE] [1.28Mcps TDD *E-DCH Non-scheduled Grant Information LCR TDD* IE] [7.68Mcps TDD *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE], if included, for the related resource allocation operation.]
- [TDD If in the RADIO LINK ADDITION REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Scheduled" the Node B shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Maximum Bit Rate LCR* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]

- [3.84Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH TDD Maximum Bitrate* IE in the *E-DCH TDD Information* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE in the *E-DCH TDD Information LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH TDD Maximum Bitrate 7.68Mcps* IE in the *E-DCH TDD Information 7.68Mcps* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the [3.84Mcps TDD *E-DCH TDD Information* IE] [7.68Mcps TDD *E-DCH TDD Information 7.68Mcps* IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE], then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE in the [3.84Mcps TDD *E-DCH TDD Information* IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] [7.68Mcps TDD *E-DCH TDD Information 7.68Mcps* IE], then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE in the *E-DCH TDD Information LCR* IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]
- [TDD The Node B shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - Intra-Node B Serving E-DCH Radio Link Change]:

[TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH Serving RL IE, this indicates the new Serving E-DCH Radio Link]:

 [TDD - The Node B shall allocate E-AGCH parameters [1.28Mcps TDD - E-HICH parameters] corresponding to the E-DCH and include the E-AGCH Specific Information Response TDD IE, [1.28Mcps TDD - E-HICH Specific Information Response 1.28Mcps TDD IE] in the E-DCH Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[1.28 Mcps TDD - Continuous Packet Connectivity Handling]:

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to TS 25.224 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK ADDITION RESPONSE message.]

[1.28 Mcps TDD - If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [21].]

[1.28 Mcps TDD - If the *Enabling Delay Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.224 [21].]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.224 [21].]

- [1.28 Mcps TDD The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent Resource Reservation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated HS-PDSCH Semi-persistent resource* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28 Mcps TDD The Node B shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD The Node B shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated E-DCH Semi-persistent resource* IE in the RADIO LINK ADDITON RESPONSE message.]

Response Message:

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

After sending the RADIO LINK ADDITION RESPONSE message, the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK ADDITION REQUEST message, the Node B shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in TS 25.427 [16].]
- [TDD start transmission on the new RL immediately as specified in TS 25.427 [16].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK ADDITION REQUEST message, the Node B shall:

- if the *Delayed Activation* IE indicates "Separate Indication":
 - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in TS 25.427 [16], however never before the CFN indicated in the *Activation CFN* IE.]
 - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in TS 25.427 [16].]

8.3.1.3 Unsuccessful Operation

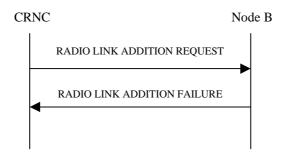


Figure 29: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK ADDITION FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD - If some RL(s) were established successfully, the Node B shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST contains a *C-ID* IE indicating that a Radio Link must be established on a Cell where DPC Mode change is not supported and DPC Mode can be changed for the relevant Node B Communication Context, the Node B shall consider the procedure as failed for the concerned Radio Link and shall respond with a RADIO LINK ADDITION FAILURE with the appropriate cause value ("DPC Mode change not supported").]

[FDD - If the requested Serving HS-DSCH Radio Link Change was successful, or if the addition of the requested serving HS-DSCH Radio Link was successful or existed already but the Serving HS-DSCH Radio Link change was unsuccessful, the Node B shall indicate this in the *HS-DSCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested secondary serving HS-DSCH Radio Link Change was successful, or if the addition of the requested secondary serving HS-DSCH Radio Link was successful or existed already but the secondary serving HS-DSCH Radio Link change was unsuccessful, the Node B shall indicate this in the *HS-DSCH Secondary Serving Cell Change Information Response* IE in the *Additional HS Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested Serving E-DCH Radio Link Change was successful, or if the addition of the requested serving E-DCH Radio Link was successful or existed already but the Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested additional serving E-DCH Radio Link Change was successful, or if the addition of the requested additional serving E-DCH Radio Link was successful or existed already but the additional serving E-DCH Radio Link change was unsucessful, the Node B shall indicate this in the *Additional E-DCH Serving Cell Change Information Response* IE in the *Additional E-DCH Cell Information Response RL Add* IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are as follows:

Radio Network Layer Cause

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Reconfiguration CFN not elapsed

- CM not supported
- [FDD DPC Mode change not supported]
- Delayed Activation not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available]
- [FDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD Multi Cell operation not available.]
- [1.28Mcps TDD- MIMO not available]
- [1.28Mcps TDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD TX diversity for MIMO UE on DL Control Channels not available]
- [FDD Single Stream MIMO not available]
- [FDD Multi Cell operation with MIMO not available.]
- [FDD Multi Cell operation with Single Stream MIMO not available.]
- [FDD Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available]
- [FDD Multi Cell E-DCH operation not available]

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.3.1.4 Abnormal conditions

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Compressed Mode Deactivation Flag* IE with the value "Deactivate" when compressed mode is active for the existing RL(s), and at least one of the new RL is added in a cell that has the same UARFCN (both UL and DL) of at least one cell with an already existing RL, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and if the *DL Reference Power* IEs are included in the *RL Information* IE but the *DL Reference Power* IE is not present for each RL in the *RL Information* IE, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IEs in the *RL Information* IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s), the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE or *RL Specific E-DCH Information* IE included in the *RL Information* IE for a specific RL [FDD - and the E-DCH RL is already configured in the Node B] and the *Diversity Control Field* IE is set to

"Must", the Node B shall regard the Radio Link Addition procedure as failed and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must Not", the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in [FDD - the *RL Specific E-DCH Information* IE in the *RL Information* IE for the first E-DCH RL][TDD – the *E-DCH MAC-d Flows Information TDD* IE], the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for an HS-DSCH MAC-d Flow in the *HS-DSCH MAC-d Flows Information* IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK ADDITION REQUEST message does not include the *UARFCN* IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.]

[1.28Mcps TDD - For a single frequency cell, if the RADIO LINK ADDITION REQUEST message includes the *UARFCN* IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.]

[FDD - If the concerned NodeB Communication Context is configured to use DPCH in downlink and if a transmission gap pattern sequence is active with an SF/2 downlink compressed mode method and the RADIO LINK ADDITION REQUEST message does not contain the transmission gap pattern sequence code information for any new radio link, the NodeB shall reject the Radio Link Addition procedure using the RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM Settings".]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE but not the *HS-DSCH FDD Information* IE and the Node B Communication Context is not configured for HS-DSCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE but the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving Cell Change CFN* IE but neither the *Serving E-DCH RL* IE nor *HS-DSCH Serving Cell Change Information* IE is included into, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK ADDITION REQUEST message, but the *E-DPCH Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL-ID* IE not equal to the *RL ID* IE, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE not equal to the *RL ID* IE, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] has the value "Flexible MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for HS-DSCH MAC-d flow being added, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for E-DCH MAC-d flow being added, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message contains the *HS-PDSCH RL ID* IE [FDD - in the *HS-DSCH Serving Cell Change Information* IE] and/or *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the Node B but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *HS-DSCH Serving Cell Change Information* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but the DCH is configured to be included as a part of the downlink CCTrCH, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the MIMO Activation Indicator IE, Sixtyfour QAM Usage Allowed Indicator IE set to "Allowed", the Additional HS Cell Information RL Addition IE and/or the Single Stream MIMO Activation Indicator IE but does not contain the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Serving E-DCH RL ID* IE but contains the *Transport Bearer Not Requested Indicator* IE or there is at least one E-DCH MAC-d flow which transport bearer was not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with the existing RL which the transport bearer is established for the DCH in Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Additional HS Cell Information RL Addition* IE and if the HS-DSCH is not configured in the NodeB Communication Context and the *HS-DSCH Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information* IE] set to 'Flexible RLC PDU Size', *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information* IE] has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Information* IE] and the *DL RLC PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information* IE] has the value "Flexible RLC PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message contains a MIMO Activation Indicator IE and a Single Stream MIMO Activation Indicator IE in the HS-DSCH FDD Information IE in the HS-DSCH Serving Cell Change Information IE or in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Diversity Mode* IE in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE and the secondary serving HS-DSCH is already configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the secondary serving HS-DSCH is not configured in the Node B Communication Context and if the RADIO LINK ADDITION REQUEST message contains in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Addition* IE the *Diversity Mode* IE not set to "None" but not the *Transmit Diversity Indicator* or contains the *Transmit Diversity Indicator* but not the *Diversity Mode* IE not set to "None", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Additional E-DCH Cell Information RL Add Req* IE and if the *E-DPCH Information* IE is not present or the E-DPCH Information was not configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Additional E-DCH Cell Information RL Add Req* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Additional E-DCH Cell Information RL Add Req* IE and the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE, and the Radio Link indicated by the *E-DCH Additional RL ID* IE is not configured in the current Node B Communication Context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

8.3.2 Synchronised Radio Link Reconfiguration Preparation

8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one Node B Communication Context.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.2.2 Successful Operation

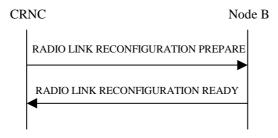


Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK RECONFIGURATION PREPARE message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Modify* IE then the Node B shall treat them each as follows:

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Uplink DCH only", the Node BNode B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Downlink DCH only", the Node BNode B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of coordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Add* IEs then the Node B shall treat them each as follows:

- If the *DCHs To Add* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs*To Add IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. TS 25.427 [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. TS 25.427 [16].]
- For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. TS 25.427 [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. TS 25.427 [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. TS 25.427 [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.

- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Delete* IE, the Node B shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the Node B shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *UL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD If the *UL DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuration.]
- [FDD The Node B shall use the *TFCS* IE for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPCCH Slot Format* IE, the Node B shall set the new Uplink DPCCH Structure to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Diversity Mode* IE, the Node B shall apply diversity according to the given value.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE and it is set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration, the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink in the new configuration.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, the Node B shall use the information contained in it for the power settings of the DL DPCH. In particular, if the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. TS 25.214 [10].]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL DPCH Information* IE, the Node B shall apply the parameters to the new configuration as follows:]

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the Node B shall set the new Downlink DPCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. TS 25.214 [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE, the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated or once the previous Compressed Mode Configuration has been deactivated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

- [FDD The Node B shall configure the concerned Node B Communication Context for DTX operation according to TS 25.214 [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to TS 25.214 [10].]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then:]

- [FDD If the *UE DTX DRX Offset* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall apply the indicated Offset in *UE DTX DRX Cycle* IE in the new configuration.]
- [FDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.214 [10].]
- [FDD If the *DTX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of *DTX Information To Modify* IE is "Deactivate", then DRX should be deactived together with DTX.]

- [FDD - If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The Node B shall configure the Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation in the new configuration according to TS 25.214 [10].]
- [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE, then the Node B shall deactivate the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to TS 25.224 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then:]

- [1.28 Mcps TDD If the *UE DTX DRX Offset* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B shall apply the indicated Offset in *UE DTX DRX Cycle* IE in the new configuration.]
- [1.28 Mcps TDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.224 [21].]
- [1.28 Mcps TDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]
- [1.28 Mcps TDD If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [21].]
- [1.28 Mcps TDD If the *Enabling Delay Ext* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.224 [21].]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
- [1.28 Mcps TDD The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent Resource Reservation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated HS-PDSCH Semi-persistent resource IE* in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi- Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
 - [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include Allcoated E-DCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, then:]

- [1.28 Mcps TDD If the *Transport Block Size List* IE or/and *Repetition Period list* IE is/are included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall modify the configuration of Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.224 [21].
- [1.28 Mcps TDD If the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall use this information to modify the buffer size for HS-DSCH Semi-Persistent scheduling operation.
- [1.28 Mcps TDD If the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall use this information to allocate the number of processes for HS-DSCH Semi-Persistent scheduling operation.
- [1.28 Mcps TDD The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]
 - [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent scheduling operation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the buffer size for HS-DSCH Semi-Persistent scheduling needs to be modified, then the Node B shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the number of processes for HS-DSCH Semi-Persistent scheduling needs to be modified, then the Node B shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then:]

- [1.28 Mcps TDD If the *Repetition Period list* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall modify the configuration of Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.224 [21].
 - [1.28 Mcps TDD If the *E-DCH Semi-Persistent scheduling Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall apply this information for E-DCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the *Semi-Persistent E-DCH releted E-HICH Information* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall use this information to modify the configuration of Semi-Persistent E-DCH releted E-HICH.]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall include *Allcoated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the Node B shall deactivate the HS-DSCH Semi-Persistent scheduling operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the Node B shall deactivate the E-DCH Semi-Persistent scheduling operation for the E-DCH Radio Link.]

[FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DPCH Information* IE, the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *E-DPCH Information* IE includes the *Maximum Set of E-DPDCHs* IE, the Node B shall apply the contents of the Maximum Set in the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuration]
- [FDD If the *E-DPCH Information* IE includes the *E-TFCS Information* IE, the Node B shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI* IE the Node B shall use the value for the related resource allocation operation.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD If the *E-DPCH Information* IE includes the *E-TTI* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-DPCCH Power Offset* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-RGCH 2-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-RGCH 3-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *HARQ Info for E-DCH* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *HS-DSCH Configured Indicator* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *Minimum Reduced E-DPDCH Gain Factor* IE , then the Node B shall use the value to determine the applicable minimum gain factor ($\beta_{ed,k,reduced,min}$) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the Node B Communication Context, the Node B may use the default value defined in TS 25.331 [18].

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH to Modify* or *DL CCTrCH to Modify* IE, then the Node B shall treat them each as follows:]

- [TDD If the IE includes any of the *TFCS* IE, *TFCI coding* IE or *Puncture Limit* IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]
- [TDD If the IE includes any *UL DPCH To Add* IE, *UL DPCH To Add LCR* IE, *UL DPCH To Add 7.68Mcps* IE, *DL DPCH To Add 7.68Mcps* IE, *DL DPCH To Add LCR* IE, or *DL DPCH To Add* IE, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Delete* IE or *DL DPCH To Delete* IE, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Modify* IE or *DL DPCH To Modify* IE and includes any of the *Repetition Period* IE, *Repetition Length* IE or *TDD DPCH Offset* IE, or the message includes UL/DL Timeslot Information and includes any of the [3.84Mcps TDD *Midamble Shift And Burst Type* IE], [1.28Mcps TDD *Midamble Shift LCR* IE], [7.68Mcps TDD *Midamble Shift And Burst Type* 7.68Mcps IE], or *TFCI Presence* IE or the message includes UL/DL Code information and includes [3.84Mcps TDD *TDD Channelisation Code* IE], [1.28Mcps TDD *TDD Channelisation Code* 7.68Mcps IE], [1.28Mcps TDD *TDD UL DPCH Time Slot Format LCR* IE or *TDD DL DPCH Time Slot Format LCR* IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control according to TS 25.221 [19] and TS 25.224 [21] when the new configuration is being used.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC DL Step Size* IE, the Node B shall apply this value to the downlink TPC step size in the new configuration.]
- [1.28Mcps TDD If the *DL DPCH To Modify Per RL* IE includes the *TDD TPC DL Step Size* IE and the *RL ID* IE in the *DL DPCH To Modify Per RL* IE is same as the *HS-PDSCH RL ID* IE, the Node B shall apply this value to the HS-SCCH TPC step size in the new configuration.]
- [1.28Mcps TDD If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall delete / add / modify the PLCCH assignment according to the content when the new configuration is used.]

[TDD - UL/DL CCTrCH Addition]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Add* IE or *DL CCTrCH To Add* IE, the Node B shall include this CCTrCH in the new configuration.]

[TDD - If the *UL/DL CCTrCH To Add* IE includes any [3.84Mcps TDD - *UL/DL DPCH Information* IE] [1.28Mcps TDD - *UL/DL DPCH Information LCR* IE] [7.68Mcps TDD - *TDD Channelisation Code 7.68Mcps* IE], the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *TDD TPC DL Step Size* IE within a *DL CCTrCH To Add* IE, the Node B shall set the downlink TPC step size of that CCTrCH to that value, otherwise the Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - If the *UL CCTrCH To Add* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply the uplink TPC step size in the new configuration.]

[1.28Mcps TDD - The Node B shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according to TS 25.221 [19] and TS 25.224 [21] in the new configuration.]

[1.28Mcps TDD - If the *DL DPCH To Add Per RL* IE includes the *TDD TPC DL Step Size* IE and the *RL ID* IE in the *DL DPCH To Add Per RL* IE is same as the *HS-PDSCH RL ID* IE, the Node B shall apply this value to the HS-SCCH TPC step size in the new configuration. If no *TDD TPC DL Step Size* IE is included in the *DL DPCH To Add Per RL* IE, the value of *HS-SCCH TPC Step Size* IE should applied to the HS-SCCH TPC step size in the new configuration.]

[1.28Mcps TDD - If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall add the PLCCH assignment when the new configuration is used.]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted , the Node B shall remove this CCTrCH in the new configuration.]

DL Power Control:

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, when the new configuration has been activated, according to subclause 8.3.7, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION READY message.]

[TDD - DSCH Addition/Modification/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IE, then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *TNL QoS* IE in the *DSCH TDD Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[TDD - USCH Addition/Modification/Deletion]:

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified, if the *TNL QoS* IE is included and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply between the Node B and the CRNC for the related USCHs.]
- [TDD The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each USCH.]

RL Information:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to TS 25.212 [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *pth* to "*PhCH number p*".]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate

scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

- [FDD If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration. During compressed mode, the δP_{curr} , as described in ref.TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. If no *Maximum Downlink Power* IE is included (even if *CCTrCH Maximum DL Transmission Power* IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. If no *Minimum Downlink Power* IE is included (even if *CCTrCH Minimum DL Transmission Power* IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum CCTrCH DL Power to Modify* IE and/or *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH. If the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values for all other DCH type CCTrCHs of the radio link.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum DL Power to Modify LCR* IE and/or *Minimum DL Power to Modify LCR* IE are included, the Node B shall apply the values in the new configuration for this timeslot, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [3.84Mcps TDD and 7.68Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the determined initial CCTrCH DL power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.224 [21], subclause 4.2.3.4).]

- [3.84Mcps TDD and 7.68Mcps TDD The initial power, maximum power, and minimum power for a DSCH type CCTrCH to be added or modified, shall be determined as follows:
 - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
 - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled (TS 25.435 [24]), with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot in a DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the initial DL power, otherwise the initial DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.224 [21], subclause 5.1.2.4).]
- [1.28Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE and the *DL Time Slot ISCP Info LCR* IE are included then the Node B shall use that power for the PDSCH power, otherwise the PDSCH power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. If *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in TS 25.224 [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each PDSCH and on each timeslot of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing RL/timeslots when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.224 [21], subclause 5.1.2.4).]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL PDSCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL PDSCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and the *Maximum CCTrCH DL Power to Modify* IE and/or the *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [FDD If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the Node B shall adjust the timing of the radio link accordingly in the new configuration.]

- [1.28Mcps TDD If the *RL Information* IE message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]
- [FDD If the *RL Information* IE includes the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to TS 25.211 [7].]

[TDD - PDSCH RL ID]:

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then in the new configuration the Node B shall use the PDSCH and/or PUSCH in this radio link.]

Signalling bearer rearrangement:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Signalling Bearer Request Indicator* IE the Node B shall allocate a new Communication Control Port for the control of the Node B Communication Context and include the *Target Communication Control Port ID* IE in the RADIO LINK RECONFIGURATION READY message.

HS-DSCH Setup:

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION PREPARE message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message. [FDD The *HARQ Memory Partitioning* IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the *MIMO Activation Indicator* IE is included in the *HS-DSCH Information* IE.] [1.28Mcps TDD- The *HARQ Memory Partitioning* IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the *MIMO Activation Indicator* IE is included in the *HS-DSCH Information* IE.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref TS 25.214 [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the Node B shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the Node B shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SICH SIR Target* IE in the *HS-DSCH Information* IE, the Node B shall use this value to determine the HS-SICH SIR Target. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels (TS 25.435 [24]) and MAC-hs (3GPP TS 25.321 [32]).
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B may use:]
 - [FDD a different HS-SCCH in consecutive TTIs for this UE]
 - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE the Node B may use the supported HSDPA functions for this UE.]
- [FDD If the UE Support Indicator Extension IE is included in the *HS-DSCH FDD Information* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported,

include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple frequencies for UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE TSO Capability LCR* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple frequencies and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may indicate the number of multiple frequencies actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
 - [1.28 Mcps TDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH TDD Information* IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the *MIMO SF Mode for HS-PDSCH dual stream* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *Priority Queue Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

[FDD – Secondary Serving HS-DSCH Setup:]

[FDD – If the *C-ID* IE is present in the *Additional HS Cell Information RL Reconf Prep* IE in the RADIO LINK RECONFIGURATION PREPARE message, then:]

- [FDD The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE,, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *Diversity Mode* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, the Node B shall apply cell specific transmit diversity configuration and if the *Diversity Mode* IE is not set to "None" the Node B shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information* IE.]

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message. [FDD The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.] [1.28Mcps TDD- The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.

- If a reset of the MAC-hs is not required the Node B shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION READY message.
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE and the value is set to "allowed" or if HS-DSCH Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new configuration, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Intra-Node B Secondary Serving HS-DSCH Radio Link Change:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *C-ID* IE and the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE and the secondary serving HS-DSCH Radio Link has been configured in the Node B, then the *HS-PDSCH RL ID* IE indicates the new secondary serving HS-DSCH Radio Link:]

- [FDD In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old secondary serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new secondary serving HS-PDSCH Radio Link. The Node B shall remove the old secondary serving HS-PDSCH Radio Link if no E-DCH resources are allocated to the RL. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE and the value is set to "allowed" or if HS-DSCH FDD Secondary Serving Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM for the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - Additional Serving E-DCH Radio Link Change to an existing additional non serving E-DCH RL:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *C-ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE and an additional non serving E-DCH RL exists in the cell indicated by the *C-ID* IE, the *HS-PDSCH RL ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE indicates the new Additional Serving E-DCH Radio Link.]

- [FDD If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD -The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Links on secondary UL frequency in the Node B.]

[FDD - Additional Serving E-DCH Radio Link Change to a new RL:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Additional E-DCH RL Specific Information To Add* IE in the *Additional E-DCH Configuration Change Information* IE in the *Additional E-DCH Cell Information RL Reconf Prep* IE and the *C-ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE and there is no radio links in the cell indicated by the *C-ID* IE for the Node B Communication Context, the *HS-PDSCH RL ID* IE indicates the new Additional Serving E-DCH Radio Link on secondary UL frequency.]

- [FDD If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD In the new configuration the Node B shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The Node B may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle* 2 IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the Node B allows the CRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information To Modify* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the *HS-DSCH Information To Modify* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-d PDU Size Index IE in the Modify Priority Queue choice, the Node B shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the MAC-d PDU Size Index IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Measurement Power Offset* IE in the *HS-DSCH Information* IE or the *HS-DSCH Information To Modify* IE, then the Node B shall use the measurement power offset as described in TS 25.214 [10] subclause 6A.2.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use the indicated power offset in the new configuration.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SICH SIR Target IE in the HS-DSCH Information To Modify IE, the Node B shall use this value to the SIR Target in the new configuration. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SICH TPC step size IE in the HS-DSCH Information To Modify IE, the Node B shall use this value to the HS-SICH TPC step size in the new configuration.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE TSO Capability LCR* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify* IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the Node B may modify the HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the Node B may modify the HS-SCCH parameters corresponding to the HS-DSCH. The Node B shall then report the values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD HS-SCCH Specific Information Response] [1.28Mcps TDD HS-SCCH Specific Information Response LCR] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps] IEs in the RADIO LINK RECONFIGURATION READY message.]

- [FDD If the HS-DSCH Information To Modify IE includes the HS-PDSCH Code Change Grant IE, then the Node B may modify the HS-PDSCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the Continuous Packet Connectivity HS-SCCH less Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the concerned Node B is not in Continuous Packet Connectivity HS-SCCH less mode, the RNC shall not include the HS-PDSCH Code Change Grant IE in the HS-DSCH Information To Modify IE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use, in the new configuration, the indicated format in user plane frame structure for HS-DSCH channels (TS 25.435 [24]) and MAC-hs (3GPP TS 25.321 [32]).
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information in the new configuration and may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD Any secondary serving HS-DSCH that was applied in the old configuration shall remain in the new configuration unless it is explicitly removed.]
- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- [1.28Mcps TDD For a multi-frequency cell, if the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, and the Node B allows UE to use HSDPA resources distributed over multiple frequencies, then the Node B may modify the HS-SCCH Codes corresponding to the HS-DSCH over multiple frequencies, the Node B shall then report the codes which are used in the new configuration specified in the *HS*-

SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [1.28Mcps TDD- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information in the new configuration and may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [1.28Mcps TDD- If the *MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
 - [1.28 Mcps TDD If the MIMO Mode Indicator IE is set to "Activate", then the Node B shall decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes *DL RLC PDU Size Format* IE for a Priority Queue in the in the *HS-DSCH Information To Modify* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Information To Modify* IE the Node B may use the supported HSDPA functions for this UE.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Information To Modify* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Single Stream MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the HS-DSCH Radio Link in accordance with the *Single Stream MIMO Mode Indicator* IE.]

[FDD – Secondary Serving HS-DSCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH FDD Secondary Serving Information To Modify* IE in the *Additional HS Cell Information RL Reconf Prep* IE, then:]

- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Measurement Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE or the *HS-DSCH FDD Secondary Serving Information To Modify* IE, then the Node B shall use the measurement power offset as described in TS 25.214 [10] subclause 6A.2.]
- [FDD If the *HS-DSCH FDD Secondary Serving Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the Node B may modify the secondary serving HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify* IE, then the Node B shall activate/deactivate the MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD If the Single Stream MIMO Mode Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the Single Stream MIMO Mode Indicator IE.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *Diversity Mode* IE is included, then:]
 - [FDD- the Node B shall apply cell specific transmit diversity configuration for the secondary serving HS-DSCH radio link according to *Diversity Mode* IE and *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information To Modify* IE]
 - [FDD If the *Diversity Mode* IE is not set to "None", the DRNS shall apply diversity for the secondary serving HS-DSCH radio link according to the value given in the *Transmit Diversity Indicator* IE in the *HS-DSCH FDD Secondary Serving Information To Modify* IE.]
- [FDD If the *Non Cell Specific Tx Diversity* IE equals "Tx Diversity" is included, the Node B shall apply non cell specific transmit diversity configuration and reconfigure the transmit diversity setting for the secondary serving HS-DSCH radio link to the same value as defined for the serving HS-DSCH radio link in the new configuration.]

[FDD – Secondary Serving HS-DSCH Removal:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Secondary Serving Remove* IE in the *Additional HS Cell Information RL Reconf Prep* IE, then the indicated secondary serving HS-DSCH Radio Link shall be removed.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release the HS-PDSCH resources

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d Flows To Add* IE, then:

The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE message in the *HS-DSCH MAC-d Flows To Add* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. [FDD The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may include the *HARQ Memory Partitioning per UARFCN* IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes *DL RLC PDU Size Format* IE for a Priority Queue in the in the *HS-DSCH MAC-d Flows To Add* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD - HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE the Node B shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [49]:]

- [FDD The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION PREPARE message. The list of secondary serving HS-DSCH cells is designated by the list of *C-ID*s in the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified:]
 - [FDD by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell]
 - [FDD by the *Num Secondary HS-SCCH Codes* IE in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells]
- [FDD If *Num Primary HS-SCCH Codes* IE or *Num Secondary HS-SCCH Codes* IE is not included in the message, the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].
- [FDD The Node B shall return these codes in the *Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE of the RADIO LINK RECONFIGURATION READY message.]

- [FDD The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell"s HS-SCCH codes in the *HS-SCCH Preconfigured Codes* IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in TS 25.331 [18].]
- [FDD The Node B shall include, in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION READY message, IEs according to the rules defined for HS-DSCH Setup and:]
 - [FDD if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *HARQ Preamble Mode Activation Indicator* IE.]
 - [FDD if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE or in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE the *MIMO N/M Ratio* IE.]
 - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used in the preconfigured configuration the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell.]
 - [FDD if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell.]
 - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE.]
 - [FDD if the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B shall store this information in the preconfigured configuration.]
 - [FDD if the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B may store this information in the preconfigured configuration.]
 - [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH Preconfiguration Info* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The Node B shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION READY message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]
 - [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
 - [FDD The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD If the *HS-DSCH Preconfiguration Setup* IE includes the *E-DCH Indicator* IE for a secondary cell, the Node B shall include in the *Additional E-DCH Preconfiguration Information* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION READY message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the *E-DCH Indicator* IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]
 - [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
 - [FDD The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving Additional E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Non-Serving Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information B* IEin the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION READY message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION READY message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE, the *New non-serving RL E-DCH FDD DL Control Channel Information B* IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information C* for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Enhanced HS Serving Cell Change:]

[FDD - Upon receipt of the RADIO LINK RECONFIGURATION PREPARE message, if the Enhanced HS Serving Cell Change is preconfigured in the Node B for the Node B Communication Context, the Node B may execute the Enhanced HS Serving Cell Change procedure according to TS 25.308 [49]]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced HS Serving CC Abort* IE in the *HS-DSCH Information To Modify* IE or the *HS-DSCH FDD Information* IE then the Node B shall not execute the synchronized Enhanced HS Serving Cell Change procedure when performing the Intra-Node B Serving HS-DSCH Radio Link Change or, at inter Node B radio link change, the HS-DSCH Setup.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Non-Serving RL Preconfiguration Removal* IE, the Node B shall remove the corresponding preconfigured E-DCH DL Control Channel Information according to the information.]

[FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message:]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, then the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation* For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for
 the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding
 E-AGCH in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK
 RECONFIGURATION READY message.]
 - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
 - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION READY message for the serving E-DCH RL.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
- [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to 3GPP TS 25.321 [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to 3GPP TS 25.321 [32].]

[FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the Node B may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E-DCH RL Indication* set to "Non E-DCH".]
- [FDD For each RL for which the *E-DCH RL Indication* IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK RECONFIGURATION READY message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD If the new Serving E-DCH RL is in this Node B:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.]
 - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the new serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION READY message for the new serving E-DCH RL.]
- [FDD The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Links in the Node B.]

[FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE, then:]

- [FDD If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH HARQ Power Offset FDD* IE in the *E-DCH FDD Information To Modify* IE for an E-DCH MAC-d flow the Node B shall use this information for calculating the unquantised gain factor for an E-TFC ($\beta_{ed,j,uq}$) as defined in TS 25.214 [10].]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message contains the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information To Modify* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d PDU Size Format* IE in the *E-DCH FDD Information To Modify* IE, then the Node B shall use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]

- [FDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the Node B shall apply the value in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information To Modify* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-e Reset Indicator* IE in the *E-DCH FDD Information To Modify* IE, then the Node B shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
- [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to 3GPP TS 25.321 [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to 3GPP TS 25.321 [32].]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH DL Control Channel Grant Information* IE in the *E-DCH FDD Information To Modify* IE, the Node B may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the *E-DCH RL ID* IE. The Node B shall then report the modified configuration which is used in the new configuration specified in the *E-DCH FDD DL Control Channel Information* IE for each E-DCH RL in the RADIO LINK RECONFIGURATION READY message.]

[FDD - E-DCH MAC-d Flow Addition/Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH MAC-d Flows To Add* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information IE* in the *E-DCH MAC-d Flows To Add* IE, the Node B shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD – Additional E-DCH Setup:]

[FDD - If the *Additional E-DCH Cell Information RL Reconf Prep* IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Setup", then the *Additional E-DCH Cell Information Setup* IE defines the new configuration and then:]

- [FDD If the *C-ID* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *C-ID* IE indicates the cell in which the Additional E-DCH shall be setup.]
 - [FDD The Node B shall setup the Additional E-DCH on the secondary uplink frequency and setup the requested Additional E-DCH resources on the Radio Links and in the cells indicated by the *E-DCH Additional RL ID* IE and the *C-ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD If the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *E-DCH Additional RL ID* IE indicates the existing RL on which the Additional E-DCH shall be setup.]
 - [FDD The Node B shall setup the Additional E-DCH on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD The Node B shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD If the *DL Power Balancing Information* IE and/or the *Minimum Reduced E-DPDCH Gain Factor* IE are present in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the Secondary UL Frequency Activation State is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the *F-DPCH Slot Format* IE is present in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Primary CPICH Usage For Channel Estimation* IE, the *Secondary CPICH Information*, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-HICH Power Offset* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the *E-DCH Maximum Bitrate* IE, the *E-DCH Minimum Set E-TFCI* IE and/or the *E-DCH Processing Overload Level* IE are present in the *Additional E-DCH FDD Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH CellInformation Response* RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
 - [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response

RL Reconf IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH Configuration Change]

[FDD - If the *Additional E-DCH Cell Information RL Reconf Prep* IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Configuration Change", then the *Additional E-DCH Cell Information Configuration Change* IE defines the new configuration and then:]

- [FDD If the *UL Scrambling Code* IE and/or the *UL SIR Target* IE are present in the *UL DPCH Information* IE in the *Additional E-DCH Configuration Change Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Minimum Reduced E-DPDCH Gain Factor* IE is present in the *Multicell E-DCH Information* IE in the *Additional E-DCH Configuration Change Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *F-DPCH Information* IE is present in the *Additional E-DCH Configuration Change Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

[FDD – Additional E-DCH RL Addition:]

[FDD - If the *Additional E-DCH RL Specific Information To Add* IE is present in the *Additional E-DCH Configuration Change Information* IE, then:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B Communication Context, on the Radio Links indicated by the *E-DCH Additional RL ID* IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *Initial DL Transmission Power* IE, the *Maximum DL Power* IE, the *Minimum DL Power* IE and/or the *F-DPCH Slot Format* IE are present in the *Additional E-DCH RL Specific Information To Add* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *DL Reference Power* IE, the *E-AGCH Power Offset* IE, the *E-RGCH PowerOffset* IE, and/or the *E-HICH Power Offset* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Add* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK RECONFIGURATION PREPARE message includes the *DL Reference Power* IE, the Node B shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new Additional E-DCH RL(s), if activation of power balancing by the RADIO LINK RECONFIGURATION READY message is supported, according to subclause 8.3.7. In this case, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *E-DCH Additional RL Specific Information Response* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. P_{init} shall be set to the power level indicated by the *Initial DL Transmission Power* IE (if received) in the *Additional E-DCH RL Specific Information To Add* IE or the decided DL TX power level on each DL channelisation code of an Additional E-DCH RL based on power level of existing Additional E-DCH RLs.]

- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION READY message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message..]

[FDD – Additional E-DCH RL Modification:]

[FDD - If the *Additional E-DCH RL Specific Information To Modify* IE is present in the *Additional E-DCH Configuration Change Information* IE, then the RL indicated by the *E-DCH Additional RL ID* IE indicates the RL on which E-DCH resources shall be modified:]

- [FDD If the *DL Code Information* IE, the *Maximum DL Power* IE, the *Minimum DL Power* IE, and/or the *F-DPCH Slot Format* IE are present in the *Additional E-DCH RL Specific Information To Modify* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *DL Reference Power* IE, the *Primary CPICH Usage For Channel Estimation* IE, the *Secondary CPICH Information Change* IE, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE, the *E-HICH Power Offset* IE and/or the *E-DCH DL Control Channel Grant* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Modify* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE for each affected RL in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH Modification:]

[FDD - If the *Additional E-DCH FDD Information To Modify* IE is present in the *Additional E-DCH Configuration Change Information* IE, then:]

- [FDD - If the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE and/or the *E-DCH Minimum Set E-TFC*I IE is included, the Node B shall use this information for the related resource allocation operation.]

- [FDD If the *E-DCH Maximum Bitrate* IE is included, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the *E-DCH Processing Overload Level* IE is included, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the Additional E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional Modified E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH Removal]

[FDD - If the *Additional E-DCH Cell Information RL Reconf Prep* IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Removal", then the additional E-DCH on the secondary uplink frequency shall be removed.]

[TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD In the new configuration the Node B shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]
- [TDD The Node B shall allocate E-AGCH parameters [1.28Mcps TDD and E-HICH parameters] corresponding to the E-DCH and include the *E-AGCH Specific Information Response TDD* IE [1.28Mcps TDD and *E-HICH Specific Information Response TDD* IE] in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

[TDD - E-PUCH Handling]:

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-PUCH Information* IE, the Node B shall apply the parameters to the new configuration.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-PUCH Information LCR* IE, the Node B shall apply the parameters to the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-TFCS Information TDD* IE, the Node B shall apply the beta parameters to the new configuration.]

[3.84Mcps TDD - E-DCH Setup]:

[3.84Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information* IE and *E-DCH Non-scheduled Grant Information TDD* IE if there are to be non-scheduled grants.]

[1.28Mcps TDD - E-DCH Setup]:

[1.28Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information LCR* IE and *E-DCH Non-scheduled Grant Information LCR TDD* IE if there are to be non-scheduled grants.]

[7.68Mcps TDD - E-DCH Setup]:

[7.68Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information 7.68Mcps* IE and *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE if there are to be non-scheduled grants.]

[TDD - E-DCH MAC-d Flow Addition/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH MAC-d Flows To Add* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining non-scheduled E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the non-scheduled E-DCH configuration from the Node B Communication Context and release the non-scheduled E-DCH resources [1.28 Mcps TDD - and the related Signature Sequence of the Non-scheduled E-HICH].]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Maximum Bit Rate LC*R IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

[3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - If the *E-DCH Non-scheduled Grant Information TDD* IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps TDD - If the *E-DCH Non-scheduled Grant Information LCR TDD* IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - If the *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[TDD - E-DCH Modification:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH TDD Information To Modify* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d PDU Size Format* IE in the *E-DCH TDD Information To Modify* IE, then the Node B shall use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the [3.84Mcps TDD - *E-DCH TDD Information* IE][1.28Mcps TDD - *E-DCH TDD Information LCR* IE][7.68Mcps TDD - *E-DCH TDD Information 7.68Mcps* IE], then:]

- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH TDD Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH TDD Maximum Bitrate 7.68Mcps* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the [3.84Mcps TDD *E-DCH TDD Information* IE] [7.68Mcps TDD *E-DCH TDD Information* 7.68Mcps IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the [3.84Mcps TDD *E-DCH TDD Information* IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] [7.68Mcps TDD *E-DCH TDD Information 7.68Mcps* IE]includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information To Modify* IE, then:]

- [TDD If the *E-DCH TDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [1.28Mcps TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the Node B shall use this information to set the retransmission timer.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the Node B shall use this new power offset value.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Grant Type* IE, the Node B shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]

- [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
- [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
- [TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]
- [1.28Mcps TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Maximum Bit Rate LCR* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
- [TDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the Node B shall apply the value in the new configuration.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE in the *E-DCH TDD Information To Modify* IE, then the Node B shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

[FDD - Phase Reference Handling]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Primary CPICH Usage For Channel Estimation* IE, the Node B shall assume that Primary CPICH usage for channel estimation has been reconfigured.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Secondary CPICH Information Change* IE, the Node B shall assume that Secondary CPICH usage for channel estimation has been reconfigured.]

[FDD - Fast Reconfiguration]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Fast Reconfiguration Mode* IE, the Node B shall, if supported, and if it is possible to base the synchronization of the reconfiguration on the detection of the change in the uplink scrambling code for this reconfiguration, include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK RECONFIGURATION PREPARE message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to TS 25.224 [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Idle Interval Information* IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to TS 25.331 [18].]

[1.28Mcps TDD - HS-DSCH-RNTI for FACH:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH-RNTI for FACH* IE, if supported, the Node B shall store this information and include the *E-RNTI for FACH* IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Measurement occasion pattern sequence parameters IE in the DCH Measurement Occasion Information IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to TS 25.331 [18].]

General

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IEs in the [TDD - *DSCHs To Modify, DSCHs To Add, USCHs To Modify, USCHs To Add*], *HS-DSCH Information, HS-DSCH Information To Modify, HS-DSCH MAC-d Flows To Add,* [TDD - *E-DCH MAC-d Flows to Add, E-DCH TDD Information to Modify* IE] [FDD - *RL Specific E-DCH Information* IE] or in the *RL Specific DCH Information* IEs, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being added or any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included [FDD - if the *Transport Bearer Not Requested Indicator* IE is not included for this DCH,] only for one of the DCH in the set of co-ordinated DCHs.

[FDD - If the RADIO LINK RECONDIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH or an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

[FDD - If the RADIO LINK RECONDIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include in the RADIO LINK RECONFIGURATION READY message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

In the case of a Radio Link being combined with another Radio Link within the Node B, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the combined Radio Links [FDD - if the *Transport Bearer Not Requested Indicator* IE is not included for this DCH].

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the Node B, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Additional E-DCH Cell Information RL Reconf Prep* IE, then:]

- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]

- [FDD if Separate Iub Transport Bearer Mode is used in the new configuration, then:]
 - [FDD the Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow, use the *Transport Bearer Not Requested Indicator* IE in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and/or the *Transport Bearer Request Indicator* IE in the *E-DCH FDD Information To Modify* IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.]
 - [FDD If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information IE in the Additional E-DCH Cell Information Setup IE or in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information To Modify IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information Configuration Change IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall, for establishment of the transport bearer, include in the RADIO LINK RECONFIGURATION READY message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE and/or and/or include the Binding ID IE and Transport Layer Address IE for the E-DCH MAC-d flow has been modified in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional Modified E-DCH FDD Information Response IE.]

8.3.2.3 Unsuccessful Operation

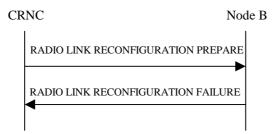


Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs, the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

Radio Network Layer Cause

- UL SF not supported
- DL SF not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported
- Number of UL codes not supported
- RL Timing Adjustment not supported

- F-DPCH not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available]
- E-DCH MAC-d PDU Size Format not available
- [FDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD Multi Cell operation not available.]
- [1.28Mcps TDD- MIMO not available]
- [1.28Mcps TDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD TX diversity for MIMO UE on DL Control Channels not available]
- [FDD Single Stream MIMO not available]
- [FDD Multi Cell operation with MIMO not available]
- [FDD Multi Cell operation with Single Stream MIMO not available]
- [FDD Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available]
- [FDD Multi Cell E-DCH operation not available]

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs To Modify* IE or *DCHs To Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs To Modify* IE or *DCHs To Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-Static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IE, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message IE includes more than one *DL Reference Power* IE, the Node B shall regard the Synchronised Radio Link Reconfiguration

Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION PREPARE message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message is to modify UE channel estimation information for an existing RL and the modification is not allowed according to TS 25.214 [10] subclause 4.3.2.1, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD - If multiple radio links exist within the Node B Communication Context and the RADIO LINK RECONFIGURATION PREPARE message does not include a *RL ID* IE within each *UL DPCH To Add Per RL* IE, *DL DPCH To Add Per RL* IE, *UL DPCH To Modify Per RL* IE, and *DL DPCH To Modify Per RL* IE that is present in the message, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use MAC-d PDU Size Index, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Fixed MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use MAC-d PDU Size List, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned the Node B Communication Context is configured to use DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE , then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes at least one but not all of the *TFCS* IE, *DL DPCH Slot Format* IE, *TFCI Signalling Mode* IE, *Multiplexing Position* IE, *Limited Power Increase* IE and *DL DPCH Power Information* IE in the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message, but the *E-DPCH Information* IE is not present or if any of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE, *E-TFCS Information* IE, *E-TTI* IE, *E-DPCCH Power Offset* IE, *E-RGCH 2-Index-Step Threshold* IE, *E-RGCH 3-Index-Step Threshold* IE, *HARQ Info for E-DCH* IE or *HS-DSCH Configured Indicator* IE are not present in the *E-DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Primary CPICH Usage For Channel Estimation* IE and/or *Secondary CPICH Information Change* IE and if in the new configuration Node B shall assume that the UE is not using the Primary CPICH for channel estimation nor the Secondary CPICH, Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-PDSCH RL ID* IE and/or the *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE or *E-DCH MAC-d Flows To Delete* IE in addition to the *E-DCH FDD Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE, *E-DCH MAC-d Flows To Delete* IE and the Node B Communication Context is not configured for E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *E-DCH FDD Information* IE and the E-DCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[TDD - if the radio link was not previously configured to support E-DCH, then if the RADIO LINK RECONFIGURATION PREPARE message includes one of the following E-DCH information elements then it shall contain all of them otherwise the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.: *E-DCH Serving RL* IE, [3.84Mcps TDD and 7.68Mcps TDD - *E-PUCH Information* IE, *E-TFCS Information TDD* IE], [1.28Mcps TDD - *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE], *E-DCH MAC-d Flows to Add* IE, and [3.84Mcps TDD - *E-DCH TDD Information* IE], [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information 7.68Mcps* IE].]

[FDD - If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION PREPARE message and the *UL Scrambling Code* IE does not indicate an uplink scrambling code different from the currently used uplink scrambling code the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE in addition to the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE in addition to the *Continuous Packet Connectivity HS-SCCH less Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE while the Continuous Packet Connectivity HS-SCCH less configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity *DTX-DRX* configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DRX Information To Modify* IE in *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity DRX configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only" but no *Transport Format Set* IE for the uplink for this DCH and the Node B had ignored the configuration of Transport Format Set for uplink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only" but no *Transport Format Set* IE for the downlink for this DCH and the Node B had ignored the configuration of Transport Format Set for downlink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but does not contain the corresponding *DCH ID* IE and the *Unidirectional DCH indicator* IE set to "Uplink DCH only" for the DCH in *DCH Information To Add* IE, the Node B shall reject the procedure using the the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 4 but is not configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

- [FDD If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [FDD If the concerned Node B Communication Context is configured to apply the "Closed loop mode 1" and if the concerned Node B Communication Context is not configured to apply UL DPCCH Slot Format 2 or 3, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [FDD If the concerned Node B Communication Context is configured to apply MIMO, allowed to apply 64 QAM, establish the secondary serving HS-DSCH Radio Link or apply Single Stream MIMO in the new configuration but is not configured to use flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for a DCH in the *RL Specific DCH Information* IE but does not include the *DCH ID* IE for the DCH in the *DCHs to Add* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but does not contain the *F-DPCH Information* IE and the concerned Node B Communication Context is not previously configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [FDD If the concerned Node B Communication Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the Transport Bearer is not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- If ALCAP is not used, if the concerned Node B Communication Context is configured to establish a DCH, an E-DCH MAC-d flow and/or an HS-DSCH MAC-d flow but the RADIO LINK RECONFIGURATION PREPARE message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the DCH, the E-DCH MAC-d flow and/or the HS-DSCH MAC-d flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.
- [TDD If ALCAP is not used, if the concerned Node B Communication Context is configured to establish a DSCH and/or a USCH but the RADIO LINK RECONFIGURATION PREPARE message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the DSCH and/or the USCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [1.28 Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Semi-Persistent scheduling Information to Modify LCR* IE in addition to the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- [1.28 Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Information to Modify LCR* IE in addition to the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
- If, in the new configuration, there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size' for an HS-DSCH but is not configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.
- If, in the new configuration, the concerned Node B Communication Context is configured to use MAC-d PDU Size Index for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size', the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH FDD Secondary Serving Information* IE but does not contain the *C-ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE or

the message includes the *C-ID* IE but does not contain the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains a *MIMO Activation Indicator* IE and a *Single Stream MIMO Activation Indicator* IE in the *HS-DSCH FDD Information* IE or in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO and Single Stream MIMO for the HS-DSCH Radio Link or the Secondary Serving Radio link, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Diversity Mode* IE in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE and the secondary serving HS-DSCH is already configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the secondary serving HS-DSCH is not configured in the Node B Communication Context and if the RADIO LINK RECONFIGURATION PREPARE message contains in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE the *Diversity Mode* IE not set to "None" but not the *Transmit Diversity Indicator* or contains the *Transmit Diversity Indicator* but not the *Diversity Mode* IE not set to "None", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Diversity Mode* IE in the *Secondary Serving Information To Modify* IE in the *Additional HS Cell Information RL Reconf Prep* IE and the *Non Cell Specific Tx Diversity* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Additional E-DCH Cell Information RL Reconf Prep* IE and if the *E-DPCH Information* IE is not present or the E-DPCH Information was not configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Additional E-DCH Cell Information RL Reconf Prep* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information Setup* IE in the *Additional E-DCH Cell Information RL Reconf Prep* IE and the *C-ID* IE is not included but the Radio Link indicated by the *E-DCH Additional RL ID* IE is not configured in the current Node B Communication Context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.3 Synchronised Radio Link Reconfiguration Commit

8.3.3.1 General

This procedure is used to order the Node B to switch to the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.3.2 Successful Operation



Figure 32: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The Node B shall switch to the new configuration previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure

- [TDD at the next coming CFN with a value equal to the value requested by the CRNC in the CFN IE (see ref.TS 25.402 [17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.]
- [FDD if the Fast Reconfiguration IE is not included in the RADIO LINK RECONFIGURATION COMMIT message at the next coming CFN with a value equal to the value requested by the CRNC in the *CFN* IE (see ref.TS 25.402 [17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.]
- [FDD if the Fast Reconfiguration IE is included in the RADIO LINK RECONFIGURATION COMMIT message as soon as the Node B detects that the UE uses the new configuration in the uplink (e.g. the Node B detects that the UE uses the new scrambling code used for the uplink by sending the RADIO LINK RESTORATION message). In order to limit the period for the detection in the Node B the CFN in the RADIO LINK RECONFIGURATION COMMIT message indicates the earliest possible time instant at which the UE might use the new configuration.]

[FDD - If the *Active Pattern Sequence Information* IE is included in the RADIO LINK RECONFIGURATION COMMIT message, the *CM Configuration Change CFN* IE in the *Active Pattern Sequence Information* IE shall be ignored by the Node B.]

[FDD - If the *Active Pattern Sequence Information* IE is not included in the RADIO LINK RECONFIGURATION COMMIT message and a new Compressed Mode Configuration exists in the prepared configuration, the Node B shall behave as if an *Active Pattern Sequence Information* IE with an empty *Transmission Gap Pattern Sequence Status* IE was included.]

When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

In the case of a Transport Channel or MAC-d flow modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the configuration switching point (defined above). The detailed frame protocol handling during transport bearer replacement is described in TS 25.427 [16], subclause 5.10.1 and in TS 25.435 [24], subclauses 5.8.2 and 5.8.3.

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has received the RADIO LINK RECONFIGURATION COMMIT message via the old Communication Control Port.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the configuration switching point (defined above). From that moment on, all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions shall be started when the indicated *TGCFN* IE elapses. The *CFN* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value. If the values of the *CFN* IE and the *TGCFN* IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CFN* IE.]

[FDD - If the RADIO LINK RECONFIGURATION COMMIT message includes the *Active Pattern Sequence Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to TS 25.211 [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.]

8.3.3.3 Abnormal Conditions

If a new transport bearer is required for the new reconfiguration and it is not available at the configuration switching point (defined above), the Node B shall initiate the Radio Link Failure procedure.

[FDD - If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message and the Node B did not include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message, the Node B shall initiate the Radio Link Failure procedure.]

[FDD - If the RADIO LINK RECONFIGURATION COMMIT message includes the *Active Pattern Sequence Information* IE which activates a downlink transmission gap pattern sequence with an SF/2 downlink compressed mode method and if the concerned NodeB Communication Context is configured to use DPCH in downlink and for any Radio Link the transmission gap pattern sequence code information is not available, the NodeB shall trigger the Radio Link Failure procedure with the cause value 'Invalid CM Settings'.]

8.3.4 Synchronised Radio Link Reconfiguration Cancellation

8.3.4.1 General

This procedure is used to order the Node B to release the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation Reconfiguration procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.4.2 Successful Operation



Figure 33:Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

When receiving the RADIO LINK RECONFIGURATION CANCEL message from the CRNC, the Node B shall release the new configuration ([FDD - including the new Transmission Gap Pattern Sequence parameters (if existing)]) previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure and continue using the old configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

8.3.4.3 Abnormal Conditions

8.3.5 Unsynchronised Radio Link Reconfiguration

8.3.5.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a Node B.

The Unsynchronised Radio Link Reconfiguration procedure is used when there is no need to synchronise the time of the switching from the old to the new configuration in one Node B used for a UE-UTRAN connection with any other Node B also used for the UE-UTRAN connection.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.5.2 Successful Operation

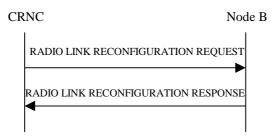


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

If the *UE Aggregate Maximum Bit Rate* IE is contained in the RADIO LINK RECONFIGURATION REQUEST message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Modify* IE then the Node B shall treat them each as follows:

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH To Add* IE, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration. In particular:

- If a *DCHs To Add* IE includes multiple *DCH Specific Info* IEs for a DCH to be added, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCHas the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE (TS 25.427 [16]). If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. TS 25.427 [16].]
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" as the QE in the UL data frames (TS 25.427 [16]). [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE (TS 25.427 [16]). If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE (TS 25.427 [16]).]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the Node B shall not include this set of co-ordinated DCHs in the new configuration.

[FDD - Physical Channel Modification]:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *UL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *UL DPCH Information* IE includes the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes a *DL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the information when building TFCIs in the new configuration.
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. TS 25.214 [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

- [FDD The Node B shall configure the concerned Node B Communication Context for DTX operation according to TS 25.214 [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to TS 25.214 [10].]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then:]

- [FDD If the *UE DTX DRX Offset* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall apply the indicated Offset in *UE DTX DRX Cycle* IE in the new configuration.]
- [FDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.214 [10].]
- [FDD If the *DTX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of *DTX Information To Modify* IE is "Deactivate", then DRX should be deactived together with DTX.]
- [FDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The Node B shall configure the Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation in the new configuration according to TS 25.214 [10].]
- [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE, then the Node B shall deactivate the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DRX Information LCR* IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to TS 25.224 [21] and include the parameter(s) in the *Continuous Packet Connectivity DRX Information Response LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DRX Information To Modify LCR* [E, then:]

- [1.28 Mcps TDD If the *UE DTX DRX Offset* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B shall apply the indicated Offset in *UE DTX DRX Cycle* IE in the new configuration.]
- [1.28 Mcps TDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.224 [21].]
- [1.28 Mcps TDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]
- [1.28 Mcps TDD If the *Inactivity Threshold for UE DRX Cycle Ext* IE is included in the *Continuous Packet Connectivity DRX Information LCR* IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to TS 25.224 [21].]
 - [1.28 Mcps TDD If the *Enabling Delay Ext* IE is included in the *Continuous Packet Connectivity DRX Information To Modify LCR* IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to TS 25.224 [21].]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
- [1.28 Mcps TDD The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent Resource Reservation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated HS-PDSCH Semi-persistent resource IE* in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Semi- Persistent scheduling Information LCR* IE, then:]

- [1.28 Mcps TDD The Node B shall configure the Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.224 [21].]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall include *Allcoated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, then:]

- [1.28 Mcps TDD If the *Transport Block Size List* IE or/and *Repetition Period list* IE is/are included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall modify the configuration of Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for HS-DSCH Semi-Persistent scheduling operation according to TS 25.224 [21].
- [1.28 Mcps TDD If the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall use this information to modify the buffer size for HS-DSCH Semi-Persistent scheduling operation.
- [1.28 Mcps TDD If the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall use this information to allocate the number of processes for HS-DSCH Semi-Persistent scheduling operation.
- [1.28 Mcps TDD The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent Resource Reservation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall include *Allcoated HS-PDSCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
 - [1.28 Mcps TDD If the *HS-DSCH Semi-Persistent scheduling operation Indicator* IE is included in the *HS-DSCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the buffer size for HS-DSCH Semi-Persistent scheduling needs to be modified, then the Node B shall include the *Buffer Size for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28 Mcps TDD If the number of processes for HS-DSCH Semi-Persistent scheduling needs to be modified, then the Node B shall include the *Number of Processes for HS-DSCH Semi-Persistent scheduling* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then:]

- [1.28 Mcps TDD - If the *Repetition Period list* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, the Node B shall modify the configuration of Serving E-DCH Radio Link indicated by the *E-DCH Serving RL* IE for E-DCH Semi-Persistent scheduling operation according to TS 25.224 [21].

- [1.28 Mcps TDD If the *E-DCH Semi-Persistent scheduling Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall apply this information for E-DCH Semi-Persistent scheduling operation.]
- [1.28 Mcps TDD If the Semi-Persistent E-DCH releted E-HICH Information IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall use this information to modify the configuration of Semi-Persistent E-DCH releted E-HICH.]
- [1.28 Mcps TDD If the *E-DCH Semi-Persistent Resource Reservation Indicator* IE is included in the *E-DCH Semi-Persistent scheduling Information to modify LCR* IE, then the Node B shall include *Allcoated E-DCH Semi-persistent resource* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28 Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the Node B shall deactivate the HS-DSCH Semi-Persistent scheduling operation for the HS-DSCH Radio Link.]
- [1.28 Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Semi-Persistent scheduling Deactivate Indicator LCR* IE, then the Node B shall deactivate the E-DCH Semi-Persistent scheduling operation for the E-DCH Radio Link.]

[FDD - E-DPCH Handling]:

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *E-TFCS Information* IE, the Node B shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI* IE the Node B shall use the value for the related resource allocation operation.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in TS 25.214 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION REQUEST message.]
- [FDD If the *E-TFCI Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to TS 25.214 [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in TS 25.214 [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-DPCCH Power Offset* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-RGCH 2-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-RGCH 3-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *HARQ Info for E-DCH* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *Minimum Reduced E-DPDCH Gain Factor* IE, then the Node B shall use the value to determine the applicable minimum gain factor ($\beta_{ed,k,reduced,min}$) defined in TS 25.214 [10]. For the case the *Minimum Reduced E-DPDCH Gain Factor* IE is not available for the Node B Communication Context, the Node B may use the default value defined in TS 25.331 [18].

[TDD - UL/DL CCTrCH Modification]

- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH To Modify* IE or *DL CCTrCH To Modify* IE in the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]
- [TDD If the *UL CCTrCH To Modify* IE or *DL CCTrCH To Modify* IE includes *TFCS* IE and/or *Puncture Limit* IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[1.28Mcps TDD - If the *UL CCTrCH To Modify* IE includes *UL SIR Target* IE, the Node B shall apply this value as the new configuration and use it for the UL inner loop power control according to TS 25.221 [19] and TS 25.224 [21].]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH To Delete* IE or *DL CCTrCH To Delete* IE, the Node B shall not include this CCTrCH in the new configuration.]

DL Power Control:

- [FDD - If the *Radio Link Information* IE includes the *DL Reference Power* IE and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the *DL Reference Power* IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

RL Information:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD If the *RL Information* IE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH or on the F-DPCH of the Radio Link once the new configuration is being used. During compressed mode, the δP_{curr} , as described in ref.TS 25.214 [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [FDD If the *RL Information* IE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code or on the F-DPCH of the Radio Link once the new configuration is being used.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *CCTrCH Maximum DL Transmission Power* IE and/or the *CCTrCH Minimum DL Transmission Power* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other DCH type CCTrCHs.]
- [3.84 Mcps TDD and 7.68Mcps TDD The maximum power and minimum power for a DSCH type CCTrCH to be modified, shall be determined as follows:
 - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum and maximum power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
 - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled (TS 25.435 [24]), with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum power, however, is subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If *Maximum DL Power* IE and/or *Minimum DL Power* IE are included within *DL Timeslot Information LCR* IE, the Node B shall apply the values in the new configuration for this timeslot within a DCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [1.28 Mcps TDD If the *CCTrCH Maximum DL Transmission Power* IE and/or the *CCTrCH Minimum DL Transmission Power* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes the *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for other timeslots.]
- [FDD If the concerned Node B Communication Context is configured to use DPCH in the downlink and if the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate

scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

- [1.28Mcps TDD If the *RL Information* IE contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]
- [FDD If the *RL Information* IE contains the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to TS 25.211 [7].]

Signalling Bearer Re-arrangement:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Signalling Bearer Request Indicator* IE, the Node B shall allocate a new Communication Control Port for the control of the Node B Communication Context and include the *Target Communication Control Port ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

HS-DSCH Setup:

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION REQUEST message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD The *HARQ Memory Partitioning* IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the *MIMO Activation Indicator* IE is included in the *HS-DSCH Information* IE.] [1.28Mcps TDD- The *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the *MIMO Activation Indicator* IE is included in the *HS-DSCH Information* IE.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Oueue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If RADIO LINK RECONFIGURATION REQUESTmessage includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref TS 25.214 [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SICH SIR Target* IE in the *HS-DSCH Information* IE, the Node B shall use this value to determine the HS-SICH SIR Target. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels (TS 25.435 [24]) and MAC-hs (3GPP TS 25.321 [32]).
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B may use:]
 - [FDD a different HS-SCCH in consecutive TTIs for this UE]
 - [FDD HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE the Node B may use the supported HSDPA functions for this UE.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH FDD Information* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported,

include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple frequencies for UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE TSO Capability LCR* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple frequencies and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may indicate the number of multiple frequencies actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
 - [1.28 Mcps TDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH TDD Information* IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the *MIMO SF Mode for HS-PDSCH dual stream* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *Priority Queue Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

[FDD – Secondary Serving HS-DSCH Setup:]

[FDD – If the *C-ID* IE is present in the *Additional HS Cell Information RL Reconf Req* IE in the RADIO LINK RECONFIGURATION REQUEST message, then:]

- [FDD The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B may use this value to determine

the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO N/M Ratio* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Single Stream MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information* IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The Node B shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.] [1.28Mcps TDD- The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- If a reset of the MAC-hs is not required the Node B shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE and the value is set to "allowed" or if HS-DSCH Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new configuration, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Intra-Node B Secondary Serving HS-DSCH Radio Link Change:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *C-ID* IE and the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Req* IE and the secondary serving HS-DSCH Radio Link has been configured in the Node B, then the *HS-PDSCH RL ID* IE indicates the new secondary serving HS-DSCH Radio Link:]

- [FDD The Node B shall release the HS-PDSCH resources on the old secondary serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new secondary serving HS-DSCH Radio Link. The Node B shall remove the old secondary serving HS-PDSCH Radio Link. Non cell specific secondary serving if no E-DCH resources are allocated to the RL. Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Secondary Serving Information Response* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE and the value is set to "allowed" or if HS-DSCH FDD Secondary Serving Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM for the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - Additional Serving E-DCH Radio Link Change to an existing additional non serving E-DCH RL:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *C-ID* IE in the *Additional HS Cell Information RL Reconf Req* IE and an additional non serving E-DCH RL exists in the cell indicated by the *C-ID* IE, the *HS-PDSCH RL ID* IE in the *HS Cell Information RL Reconf Req* IE indicates the new Additional Serving E-DCH Radio Link.]

- [FDD If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH*

Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response RL Reconf IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Links on secondary UL frequency in the Node B.]

[FDD - Additional Serving E-DCH Radio Link Change to a new RL:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Additional E-DCH RL Specific Information To Add* IE in the *Additional E-DCH Configuration Change Information* IE in the *Additional E-DCH Cell Information RL Reconf Req* IE and the *C-ID* IE in the *Additional HS Cell Information RL Reconf Req* IE and there is no radio links in the cell indicated by the *C-ID* IE for the Node B Communication Context, the *HS-PDSCH RL ID* IE indicates the new Additional Serving E-DCH Radio Link on secondary UL frequency.]

- [FDD If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD In the new configuration the Node B shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The Node B may include in the *E-DCH FDD DL Control Channel Information* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the additional serving E-DCH RL and may include the *Default Serving Grant in DTX Cycle 2* IE.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To ModifyUnsynchronised* IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the HS-DSCH Initial Capacity Allocation IE for every HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the Node B allows the CRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer for the Priority Queue of Node B Communication Context.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the ACK Power Offset IE, the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To ModifyUnsynchronised IE,

then the Node B shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]

- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the TDD ACK NACK Power Offset IE in the HS-DSCH Information To ModifyUnsynchronised IE, the Node B shall use the indicated power offset in the new configuration.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SICH SIR Target IE in the HS-DSCH Information To Modify Unsynchronised IE, the Node B shall use this value to the SIR Target in the new configuration. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SICH TPC* step size IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this value to the HS-SICH TPC step size in the new configuration.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify Unsynchronised* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE TSO Capability LCR* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in TS 25.214 [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this information in the new configuration and may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD If the MIMO Mode Indicator IE is included in the HS-DSCH Information To Modify Unsynchronised IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the MIMO Mode Indicator IE.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify Unsynchronised IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]
- [FDD Any secondary serving HS-DSCH that was applied in the old configuration shall remain in the new configuration unless it is explicitly removed.]
- [FDD If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]
- [1.28Mcps TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this information in the new configuration and may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [1.28Mcps TDD- If the *MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
 - [1.28 Mcps TDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the SF mode for HS-PDSCH dual stream and include the *MIMO SF Mode for HS-PDSCH dual stream* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE the Node B may use the supported HSDPA functions for this UE.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Information To Modify* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *HS-DSCH FDD Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Single Stream MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the HS-DSCH Radio Link in accordance with the *Single Stream MIMO Mode Indicator* IE.]

[FDD – Secondary Serving HS-DSCH Modification:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH FDD Secondary Serving Information To ModifyUnsynchronised* IE in the *Additional HS Cell Information RL Reconf Req* IE and if the Secondary Serving HS-DSCH Radio Link is in the Node B, then:]

- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH FDD Secondary Serving Information To ModifyUnsynchronised* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised* IE, then the Node B shall activate/deactivate the MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
- [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to TS 25.214 [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Single Stream MIMO Mode Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the Single Stream MIMO Mode Indicator IE.]

- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised IE with value set to "not allowed", then the Node B shall not use 64 QAM for the Secondary Serving HS-DSCH Radio Link.]
- [FDD If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the *HS-DSCH FDD Secondary Serving Information Response* IE in the *Additional HS Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in 3GPP TS 25.321 [32] for HS-DSCH Transport Block Size signalling.]

[FDD – Secondary Serving HS-DSCH Removal:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Secondary Serving Remove* IE in the *Additional HS Cell Information RL Reconf Req* IE, then the indicated secondary serving HS-DSCH Radio Link shall be removed.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs and if the Serving HS-DSCH Radio Link is in the Node B, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release any existing HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d Flows To Add* IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in TS 25.435 [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION REQUEST message in the *HS-DSCH MAC-d Flows To Add* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- If the RADIO LINK RECONFIGURATION REQUEST message includes *DL RLC PDU Size Format* IE for a Priority Queue in the in the *HS-DSCH MAC-d Flows To Add* IE, the *DL RLC PDU Size Format* IE may be used by the Node B to determine the allocated capacity on user plane as described in TS 25.435 [24].
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Preconfiguration Setup* IE in the *RL Information* IE the Node B shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to TS 25.308 [49]:

- [FDD The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the *C-ID* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of *C-ID*s in the *HS-DSCH Preconfiguration Setup* IE part of the *RL Information* IE in the RADIO LINK RECONFIGURATION REQUEST message.]
- [FDD The number of HS-SCCH codes to preconfigure for each cell may be optionally specified:]
 - [FDD by the *Num Primary HS-SCCH Codes* IE in the *HS-DSCH Preconfiguration Setup* IE, for the primary serving HS-DSCH cell]
 - [FDD by the *Num Secondary HS-SCCH Codes* IE in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE for each of the secondary serving HS-DSCH cells]
- [FDD If *Num Primary HS-SCCH Codes* IE or *Num Secondary HS-SCCH Codes* IE is not included in the message, the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in TS 25.214 [10].]
- [FDD The Node B shall return these codes in the *Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE of the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell"s HS-SCCH codes in the *HS-SCCH Preconfigured Codes* IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in TS 25.331 [18].]
- [FDD The Node B shall include, in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message, IEs according to the rules defined for HS-DSCH Setup and:]
 - [FDD if *HARQ Preamble Mode* IE is included in the *HS-DSCH Preconfiguration Setup* IE the *HARQ Preamble Mode Activation Indicator* IE]
 - [FDD if *MIMO Activation Indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE or in the *Secondary Cells* IE in the *HS-DSCH Preconfiguration Setup* IE the *MIMO N/M Ratio* IE]
 - [FDD if *HS-DSCH MAC-d PDU Size Format* IE is included in the *HS-DSCH Preconfiguration Setup* IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used in the preconfigured configuration the *HS-DSCH TB Size Table Indicator* IE for each preconfigured cell]
 - [FDD if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]
 - [FDD if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
 - [FDD if the *UE with enhanced HS-SCCH support indicator* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B shall store this information in the preconfigured configuration.]

- [FDD if the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE, then the Node B may store this information in the preconfigured configuration.]
- [FDD If the *UE Support Indicator Extension* IE is included in the *HS-DSCH Preconfiguration Setup* IE with the bit *UE DTXDRX related HS-SCCH orders uniform behavior indicator* set to 0, then the NodeB shall, if supported, include the *Support of dynamic DTXDRX related HS-SCCH order* IE in the *Preconfiguration Info* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The Node B shall include in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]
 - [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]
 - [FDD The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]
- [FDD If the *HS-DSCH Preconfiguration Setup* IE includes the *E-DCH Indicator* IE for a secondary cell, the Node B shall include in the *Additional E-DCH Preconfiguration Information* IE in the *HS-DSCH Preconfiguration Info* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the *E-DCH Indicator* IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]
 - [FDD The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a
 secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these ERNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL
 Control Channel Information IE.]
 - [FDD The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving Additional E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Non-Serving Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information B* IEin the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information C* IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD if the choice of *new Serving RL* is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information A* IE, the *New non-serving RL E-DCH FDD DL Control Channel Information B* IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information C* for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving E-DCH RL FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Enhanced HS Serving Cell Change:]

[FDD - Upon receipt of the RADIO LINK RECONFIGURATION REQUEST message, if the Enhanced HS Serving Cell Change is preconfigured in the Node B for the Node B Communication Context, the Node B may execute the Enhanced HS Serving Cell Change procedure according to TS 25.308 [49]]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Enhanced HS Serving CC Abort* IE in the *HS-DSCH Information To Modify Unsynchronised* IE or the *HS-DSCH FDD Information* IE then the Node B shall not execute the unsynchronized Enhanced HS Serving Cell Change procedure when performing the Intra-Node B Serving HS-DSCH Radio Link Change or, at inter Node B radio link change, the HS-DSCH Setup.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *No of Target Cell HS-SCCH Order* IE then the Node B shall repeat the Target Cell HS-SCCH Order on the HS-SCCH the number of times defined in the IE.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Non-Serving RL Preconfiguration Removal* IE, the Node B shall remove the corresponding preconfigured E-DCH DL Control Channel Information according to the information.]

[FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message:]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH MAC-d Flows Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH Information* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels (TS 25.435 [24]) and MAC (3GPP TS 25.321 [32]).]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the Serving E-DCH RL IE:]
 - [FDD the Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
 - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *HS-DSCH Configured Indicator* IE and/or the *Maximum Set of E-DPDCHs* IE, and/or the *Puncture Limit* IE and/or the *E-TTI* IE, the Node B shall use and apply the value(s) in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
- [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to 3GPP TS 25.321 [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to 3GPP TS 25.321 [32].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the Node B may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E-DCH RL Indication* set to "Non E-DCH".]
- [FDD For each RL for which the *E-DCH RL Indication* IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.]
- [FDD If the New Serving E-DCH RL is in this Node B:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for
 the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code
 of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK
 RECONFIGURATION RESPONSE message.]
 - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the new serving E-DCH RL.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
 - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the new serving E-DCH RL.]
- [FDD The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Links in the Node B.]

[FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the $\emph{E-DCH FDD Information To Modify}$ IE, then:]

- [FDD - If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH HARQ Power Offset FDD* IE in the *E-DCH FDD Information To Modify* IE for an E-DCH MAC-d flow the Node B shall use this information for calculating the unquantised gain factor for an E-TFC ($\beta_{ed,j,uq}$) as defined in TS 25.214 [10].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message contains the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION RE QUEST message includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
 - [FDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the Node B shall apply the value in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information To Modify* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation* For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Power Offsetfor Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
- [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to 3GPP TS 25.321 [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to 3GPP TS 25.321 [32].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH DL Control Channel Grant Information* IE in the *E-DCH FDD Information To Modify* IE, the Node B may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the *E-DCH RL ID* IE. The Node B shall then report the modified configuration which is used in the new configuration specified in the *E-DCH FDD DL Control Channel Information* IE for each E-DCH RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - E-DCH MAC-d Flow Addition/Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH MAC-d Flows To Add* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Aggregate Maximum Bit Rate Enforcement Indicator* IE in the *E-DCH Logical Channel Information IE* in the *E-DCH MAC-d Flows To Add* IE, the Node B shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD – Additional E-DCH Setup:]

[FDD - If the *Additional E-DCH Cell Information RL Reconf Req* IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Setup", then: the *Additional E-DCH Cell Information Setup* IE defines the new configuration and then:]

- [FDD If the *C-ID* IE is included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *C-ID* IE indicates the cell in which the additional E-DCH shall be setup.]
 - [FDD The Node B shall setup the E-DCH on the secondary uplink frequency and setup the requested E-DCH resources on the Radio Links and in the cells indicated by the E-DCH Additional RL ID IE and the C-ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE.]
- [FDD If the *C-ID* IE is not included in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE the *E-DCH Additional RL ID* IE indicates the existing RL on which the additional E-DCH shall be setup.]
 - [FDD The Node B shall setup the additional E-DCH on the Radio Links indicated by the *E-DCH Additional RL ID* IE in the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE.]
- [FDD The Node B shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD If the *DL Power Balancing Information* IE and/or the *Minimum Reduced E-DPDCH Gain Factor* IE are present in the *Multicell E-DCH Information* IE in the *Additional E-DCH FDD Setup Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the Secondary UL Frequency Activation State is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]
- [FDD If the *F-DPCH Slot Format* IE is present in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Primary CPICH Usage For Channel Estimation* IE, the *Secondary CPICH Information*, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-HICH Power Offset* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Setup* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the *E-DCH Maximum Bitrate* IE, the *E-DCH Minimum Set E-TFCI* IE and/or the *E-DCH Processing Overload Level* IE are present in the *Additional E-DCH FDD Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If activation of power balancing for the Additional E-DCH RL by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message a value that uniquely identifies the RL Set within

the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the *E-DCH RL Set ID* IE for the Additional E-DCH RL in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL *Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]
 - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for
 the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding
 E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD
 Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO
 LINK RECONFIGURATION RESPONSE message.]
 - [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
 - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration in the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE and include the new/changed configuration in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response* RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Additional E-DCH Configuration Change]

[FDD - If the *Additional E-DCH Cell Information RL Reconf Req* IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Configuration Change", then: the *Additional E-DCH Cell Information Configuration Change* IE defines the new configuration and then]

- [FDD If the *UL Scrambling Code* IE and/or the *UL SIR Target* IE are present in the *UL DPCH Information* IE in the *Additional E-DCH Configuration Change Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *Minimum Reduced E-DPDCH Gain Factor* IE is present in the *Multicell E-DCH Information* IE in the *Additional E-DCH Configuration Change Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *F-DPCH Information* IE is present in the *Additional E-DCH Configuration Change Information* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

[FDD – Additional E-DCH RL Addition:]

[FDD - If the *Additional E-DCH RL Specific Information To Add* IE is present in the *Additional E-DCH Configuration Change Information* IE, then:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B
 Communication Context, on the Radio Links indicated by the E-DCH Additional RL ID IE. Non cell
 specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and FDPCH parameters shall take the same values as for the corresponding cell of the Primary uplink
 frequency.]
- [FDD If the *Initial DL Transmission Power* IE, the *Maximum DL Power* IE, the *Minimum DL Power* IE and/or the *F-DPCH Slot Format* IE are present in the *Additional E-DCH RL Specific Information To Add* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *DL Reference Power* IE, the *E-AGCH Power Offset* IE, the *E-RGCH PowerOffset* IE, and/or the *E-HICH Power Offset* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Add* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power* IE, the Node B shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new Additional E-DCH RL(s), if activation of power balancing by the RADIO LINK RECONFIGURATION RESPONSE message is supported, according to subclause 8.3.7. In this case, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *E-DCH Additional RL Specific Information Response* IE in the *Additional E-DCH Cell Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. P_{init} shall be set to the power level indicated by the *Initial DL Transmission Power* IE (if received) in the *Additional E-DCH RL Specific Information To Add* IE or the decided DL TX power level on each DL channelisation code of an Additional E-DCH RL based on power level of existing Additional E-DCH RLs.]
- [FDD For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]
- [FDD For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the *RL Set ID* IE included in the *Additional E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE in the RADIO LINK RECONFIGURATION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]
- [FDD For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE RL Reconf in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - Additional E-DCH RL Modification:]

[FDD - If the *Additional E-DCH RL Specific Information To Modify* IE is present in the *Additional E-DCH Configuration Change Information* IE, then the RL indicated by the *E-DCH Additional RL ID* IE indicates the RL on which E-DCH resources shall be modified:]

- [FDD If the *Maximum DL Power* IE, the *Minimum DL Power* IE, and/or the F-DPCH Slot Format IE are present in the *Additional E-DCH RL Specific Information To Modify* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If the *DL Reference Power* IE, the *Primary CPICH Usage For Channel Estimation* IE, the *Secondary CPICH Information Change* IE, the *E-AGCH Power Offset* IE, the *E-RGCH Power Offset* IE and/or the *E-DCH DL Control Channel Grant* IE are present in the *Multicell E-DCH RL Specific Information* IE in the *Additional E-DCH RL Specific Information To Modify* IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *Additional Modified E-DCH FDD Information Response* IE in the *Additional E-DCH Cell Information Response RL Reconf* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - Additional E-DCH Modification:]

[FDD - If the *Additional E-DCH FDD Information To Modify* IE is present in the *Additional E-DCH Configuration Change Information* IE, then:]

- [FDD If the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE and/or the *E-DCH Minimum Set E-TFC*I IE is included, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the *E-DCH Maximum Bitrate* IE is included, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the *E-DCH Processing Overload Level* IE is included, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the Additional E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Additional E-DCH Removal]

[FDD - If the *Additional E-DCH Cell Information RL Reconf Req* IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of *Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency* is "Removal", then the additional E-DCH on the secondary uplink frequency shall be removed.]

[TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD In the new configuration the Node B shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]
- [TDD The Node B shall allocate E-AGCH parameters [1.28Mcps TDD and E-HICH parameter] corresponding to the E-DCH and include the *E-AGCH Specific Information Response TDD* IE [1.28Mcps TDD and *E-HICH Specific Information Response TDD* IE]in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [TDD - If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

[TDD - E-PUCH Handling]:

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-PUCH Information* IE, the Node B shall apply the parameters to the new configuration.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-PUCH Information LCR* IE, the Node B shall apply the parameters to the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-TFCS Information TDD* IE, the Node B shall apply the beta parameters to the new configuration.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the *E-AGCH TPC step size* IE configured in *E-PUCH Information LCR* IE in the *E-DCH Information 1.28Mcps* IE.]

[3.84Mcps TDD - E-DCH Setup]:

[3.84Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information* IE and *E-DCH Non-scheduled Grant Information TDD* IE if there are to be non-scheduled grants.]

[1.28Mcps TDD - E-DCH Setup]:

[1.28Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information LCR* IE and *E-DCH Non-scheduled Grant Information LCR TDD* IE if there are to be non-scheduled grants.]

[7.68Mcps TDD - E-DCH Setup]:

[7.68Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information 7.68Mcps* IE and *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE if there are to be non-scheduled grants.]

[TDD - E-DCH MAC-d Flow Addition/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a E-DCH Logical Channel in the *E-DCH MAC-d Flows Information* IE in the *E-DCH MAC-d Flows To Add* IE, then the Node B shall ignore the *MAC-d PDU Size* IE in the *MAC-d PDU Size List* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining non-scheduled E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the non-scheduled E-DCH configuration from the Node B Communication Context and release the non-scheduled E-DCH resources [1.28 Mcps TDD - and the related Signature Sequence of the Non-scheduled E-HICH].]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then if the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Maximum Bit Rate LC*R IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

[3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - If the *E-DCH Non-scheduled Grant Information TDD* IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps TDD - If the *E-DCH Non-scheduled Grant Information LCR TDD* IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - If the *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[TDD - E-DCH Modification:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the [3.84Mcps TDD - *E-DCH TDD Information* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information 7.68Mcps* IE], then:]

- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH TDD Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH TDD Maximum Bitrate 7.68Mcps* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the [3.84Mcps TDD *E-DCH TDD Information* IE] [7.68Mcps TDD *E-DCH TDD Information* 7.68Mcps IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the [3.84Mcps TDD *E-DCH TDD Information* IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] [7.68Mcps TDD *E-DCH TDD Information 7.68Mcps*IE]includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *Maximum Number of Retransmission for Scheduling Info* LCR IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information To Modify* IE, then:]

- [TDD If the *E-DCH TDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]

- [1.28Mcps TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the Node B shall use this information to set the retransmissions timer.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the Node B shall use this new power offset value.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Grant Type* IE, the Node B shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
 - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
 - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
 - [TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]
 - [1.28Mcps TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Maximum Bit Rate LCR* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
 - [TDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
 - [TDD If the *E-DCH Logical Channel To Modify* IE includes the *Maximum MAC-d PDU Size Extended* IE, the Node B shall apply the value in the new configuration.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE in the *E-DCH TDD Information To Modify* IE, then the Node B shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK RECONFIGURATION REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to TS 25.224 [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Idle Interval Information* IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to TS 25.331 [18].]

[1.28Mcps TDD - HS-DSCH-RNTI for FACH:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH-RNTI for FACH* IE, if supported, the Node B shall store this information and include the *E-RNTI for FACH* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Measurement occasion *pattern sequence parameters* IE in the *DCH Measurement Occasion Information* IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement

occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to TS 25.331 [18].]

General

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IEs in the *HS-DSCH Information* IE, *HS-DSCH Information To Modify Unsynchronised* IE, *HS-DSCH MAC-d Flows To Add* IE, [FDD -*RL Specific E-DCH Information* IE] [TDD - *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information to Modify* IE] or in the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

If the requested modifications are allowed by the Node B, the Node B has successfully allocated the required resources, and changed to the new configuration, it shall respond to the CRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included], or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included], being added or any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in TS 25.427 [16], subclause 5.10.1 and in TS 25.435 [24], subclause 5.8.3.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH or an E-DCH MAC-d flow being added, then the Node B shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow being added and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] in the set of coordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the Node B, the *Transport Layer Address* IE and the *Binding ID* IE [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] in the *DCH Information Response* IE shall be included only for one of the combined Radio Links.

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the Node B, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Additional E-DCH Cell Information RL Reconf Req* IE, then:]

- [FDD - if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]

- [FDD if the *Multicell E-DCH Transport Bearer Mode* IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD if Separate Iub Transport Bearer Mode is used in the new configuration, then:]
 - [FDD the Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow, use the *Transport Bearer Not Requested Indicator* IE in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and/or the *Transport Bearer Request Indicator* IE in the *E-DCH FDD Information To Modify* IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.]
 - [FDD If the *Transport Layer Address* IE and *Binding ID* IE is included for an E-DCH MAC-d flow in the *Additional E-DCH MAC-d Flows Specific Information* IE in the *Additional E-DCH FDD Information* IE in the *Additional E-DCH Cell Information Setup* IE or in the *Additional E-DCH MAC-d Flows Specific Information* IE in the *Additional E-DCH FDD Information To Modify* IE in the *Additional E-DCH Configuration Change Information* IE in the *Additional E-DCH Cell Information Configuration Change* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall, for establishment of the transport bearer, include in the RADIO LINK RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE in the *Additional E-DCH MAC-d Flow Specific Information Response* IE in the *Additional E-DCH FDD Information Response* IE and/or and/or include the *Binding ID* IE and *Transport Layer Address* IE for the E-DCH MAC-d flow has been modified in the *Additional E-DCH MAC-d Flow Specific Information Response* IE in the *Additional Modified E-DCH FDD Information Response* IE.]

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has sent the RADIO LINK RECONFIGURATION RESPONSE message via the old Communication Control Port.

8.3.5.3 Unsuccessful Operation

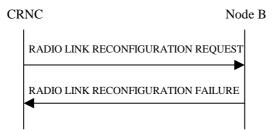


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be set-up, it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s), the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

Radio Network Layer Cause

- CM not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available]

- E-DCH MAC-d PDU Size Format not available
- [FDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD Multi Cell operation not available.]
- [1.28Mcps TDD MIMO not available]
- [1.28Mcps TDD SixtyfourQAM DL and MIMO Combined not available]
- [FDD Single Stream MIMO not available]
- [FDD Multi Cell operation with MIMO not available]
- [FDD Multi Cell operation with Single Stream MIMO not available]
- [FDD Multi Cell E-DCH operation not available]

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.3.5.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

[FDD - If the concerned Node B Communication Context is configured to use DPCH in the downlink and if the *RL Information* IE contains the *DL Code Information* IE and this IE includes *DL Scrambling Code* and *FDD DL Channelisation Code Number* IEs not matching the DL Channelisation code(s) already allocated to the Radio Link identified by *RL ID* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the Node B shall regard the Unsynchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs To Modify* IE or *DCHs To Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs To Modify* IE or *DCHs To Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-Static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IEs, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the *RL Information* IE includes more than one *DL Reference Power* IEs, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested

with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use MAC-d PDU Size Index, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Fixed MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use MAC-d PDU Size List, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink and if the *RL Information* IE contains the *DL Code Information* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message, but the *E-DPCH Information* IE is not present, or if any of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE, *E-TFCS Information* IE, *E-TTI* IE, *E-DPCCH Power Offset* IE, *E-RGCH 2-Index-Step Threshold* IE, *E-RGCH 3-Index-Step Threshold* IE, *HARQ Info for E-DCH* IE or *HS-DSCH Configured Indicator* IE are not present in the *E-DPCH*

Information IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If any the *HS-DSCH Configured Indicator* IE, of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE or *E-TTI* IE are present in the *E-DPCH Information* IE and the *E-DCH FDD Information* IE is not present in the RADIO LINK RECONFIGURATION REQUEST message, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-PDSCH RL ID* IE and/or the *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE or *E-DCH MAC-d Flows To Delete* IE in addition to the *E-DCH FDD Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE, *E-DCH MAC-d Flows To Delete* IE and the Node B Communication Context is not configured for E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes *E-DCH FDD Information* IE and the E-DCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[TDD - if the radio link was not previously configured to support E-DCH, then if the RADIO LINK RECONFIGURATION REQUEST message includes one of the following E-DCH information elements then it shall contain all of them otherwise the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.: *E-DCH Serving RL* IE, [3.84Mcps TDD and 7.68Mcps - *E-PUCH Information* IE, *E-TFCS Information TDD* IE], [1.28Mcps TDD - *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE], *E-DCH MAC-d Flows to Add* IE, and [3.84Mcps TDD - *E-DCH TDD Information* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information 7.68Mcps* IE].]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE in addition to the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE in addition to the *Continuous Packet Connectivity HS-SCCH less Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE while the Continuous Packet Connectivity HS-SCCH less configuration isn"t

configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity *DTX-DRX* configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DRX Information To Modify* IE in *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity DRX configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only" but no *Transport Format Set* IE for the uplink for this DCH and the Node B had ignored the configuration of Transport Format Set for uplink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only" but no *Transport Format Set* IE for the downlink for this DCH and the Node B had ignored the configuration of Transport Format Set for downlink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but does not contain the corresponding *DCH ID* IE and the *Unidirectional DCH indicator* IE set to "Uplink DCH only" for the DCH in *DCH Information To Add* IE, the Node B shall reject the procedure using the the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO, allowed to apply 64 QAM, establish the secondary serving HS-DSCH Radio Link, or apply Single Stream MIMO in the new configuration but is not configured to use flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH in the *RL Specific DCH Information* IE but does not include the *DCH ID* IE for the DCH in the *DCHs to Add* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but the concerned Node B Communication Context is not previously configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the Transport Bearer is not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If ALCAP is not used, if the concerned Node B Communication Context is configured to establish a DCH, an E-DCH MAC-d flow and/or an HS-DSCH MAC-d flow but the RADIO LINK RECONFIGURATION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE for the DCH, the E-DCH MAC-d flow and/or HS-DSCH MAC-d flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information to Modify LCR IE in addition to the HS-DSCH Semi-Persistent scheduling

Information LCR IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Semi-Persistent scheduling Information to Modify LCR* IE in addition to the *E-DCH Semi-Persistent scheduling Information LCR* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If, in the new configuration, there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size' for an HS-DSCH but is not configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use MAC-d PDU Size Index for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size', the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH FDD Secondary Serving Information* IE but does not contain the *C-ID* IE in the *Additional HS Cell Information RL Reconf Prep* IE or the message includes the *C-ID* IE but does not contain the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Prep* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains a *MIMO Activation Indicator* IE and a *Single Stream MIMO Activation Indicator* IE in the *HS-DSCH FDD Information* IE or in the *HS-DSCH FDD Secondary Serving Information* IE in the *Additional HS Cell Information RL Reconf Req* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO and Single Stream MIMO for the HS-DSCH Radio Link or the Secondary Serving Radio link, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *Additional E-DCH Cell Information RL Reconf Req* IE and if the *E-DPCH Information* IE is not present or the E-DPCH Information was not configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *Additional E-DCH Cell Information RL Reconf Req* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *Additional E-DCH RL Specific Information To Setup* IE in the *Additional E-DCH FDD Setup Information* IE in the *Additional E-DCH Cell Information RL Reconf Req* IE and the *C-ID* IE is not included but the Radio Link indicated by the *E-DCH Additional RL ID* IE is not configured in the current Node B Communication Context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.6 Radio Link Deletion

8.3.6.1 General

The Radio Link Deletion procedure is used to release the resources in a Node B for one or more established radio links towards a UE.

The Radio Link Deletion procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

8.3.6.2 Successful Operation

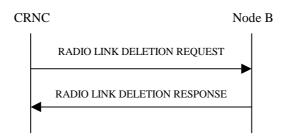


Figure 36: Radio Link Deletion procedure, Successful Operation

The procedure is initiated with a RADIO LINK DELETION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon receipt of this message, the Node B shall delete the radio link(s) identified by the *RL ID* IE, *Node B Communication Context ID* IE and *CRNC Communication Context ID* IE and release all associated resources and respond to the CRNC with a RADIO LINK DELETION RESPONSE message.

[FDD - After deletion of the RL(s), the UL out-of-sync algorithm defined in ref. TS 25.214 [10] shall for each of the remaining RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set and the UL in-sync algorithm defined in ref. TS 25.214 [10] shall for each of the remaining RL Set(s) use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD – If the RL indicated by the *RL ID* IE in the RADIO LINK DELETION REQUEST message is the serving HS-DSCH Radio link and a related secondary serving HS-DSCH Radio Link exists in the Node B, the Node B shall delete the secondary serving HS-DSCH Radio Link.]

[FDD – If the RL indicated by the *RL ID* IE in the RADIO LINK DELETION REQUEST message is the secondary serving HS-DSCH Radio link, the Node B shall delete the secondary serving HS-DSCH Radio Link.]

8.3.6.3 Unsuccessful Operation

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8.3.6.4 Abnormal Conditions

If the RL indicated by the *RL ID* IE, *Node B Communication Context ID* IE and *CRNC Communication Context ID* IE does not exist, the Node B shall respond with the RADIO LINK DELETION RESPONSE message and use the *CRNC Communication Context ID* IE received in the RADIO LINK DELETION REQUEST message.

8.3.7 Downlink Power Control [FDD]

8.3.7.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more Radio Links used for the related UE-UTRAN connection within the Node B. The Downlink Power Control procedure may be initiated by the CRNC at any time when the Node B Communication Context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B Communication Context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Control procedure shall no longer be initiated.

8.3.7.2 Successful Operation



Figure 37: Downlink Power Control procedure, Successful Operation

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

The Power Adjustment Type IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is "Common", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Common". As long as the Power Balancing Adjustment Type of the Node B Communication Context is set to "Common", the Node B shall perform the power adjustment (see below) for all existing and future radio links associated with the context identified by the *Node B Communication Context ID* IE and use a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Individual". The Node B shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Powers per RL. If the Power Balancing Adjustment Type of the Node B Communication Context was set to "Common" before this message was received, power balancing on all radio links not addressed by the DL POWER CONTROL REQUEST message shall remain to be executed in accordance with the existing power balancing parameters which are now considered RL individual parameters. Power balancing will not be started on future radio links without a specific request.

If the value of the *Power Adjustment Type* IE is "None", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "None" and the Node B shall suspend on going power adjustments for all radio links for the Node B Communication Context.

If the *Inner Loop DL PC Status* IE is present and set to "Active", the Node B shall activate inner loop DL power control for all radio links for the Node B Communication Context. If the *Inner Loop DL PC Status* IE is present and set to "Inactive", the Node B shall deactivate inner loop DL power control for all radio links for the Node B Communication Context according to ref. TS 25.214 [10].

Power Adjustment

The power balancing adjustment shall be superimposed on the inner loop power control adjustment (see ref. TS 25.214 [10]) if activated. The power balancing adjustment shall be such that:

$$\sum P_{bal} = (1 - r)(P_{ref} + P_{P-CPICH} - P_{init})$$
 with an accuracy of ± 0.5 dB

where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE, P_{ref} is the value of the *DL Reference Power* IE, $P_{P-CPICH}$ is the power used on the primary CPICH, P_{init} is the code power of the last slot of the previous adjustment period and r is given by the *Adjustment Ratio* IE. If the last slot of the previous adjustment period is within a transmission gap due to compressed mode, P_{init} shall be set to the same value as the code power of the slot just before the transmission gap.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE and the DL TX power range set by the CRNC.

The power adjustments shall be started at the first slot of a frame with CFN modulo the value of *Adjustment Period* IE equal to 0 and shall be repeated for every adjustment period and shall be restarted at the first slot of a frame with CFN=0, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

8.3.7.3 Abnormal Conditions

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8.3.8 Dedicated Measurement Initiation

8.3.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on dedicated resources in a Node B.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1 except when the *Node B Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value "All NBCC".

If the *Node B Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value "All NBCC", the Dedicated Measurement Initiation procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

8.3.8.2 Successful Operation

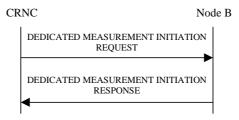


Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the Node B Communication Context.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the DEDICATED MEASUREMENT INITIATION REQUEST message. Unless specified below the meaning of the parameters are given in other specifications.

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", this measurement request shall apply for all current and future Node B Communication Contexts controlled via the Communication Control Port on which the DEDICATED MEASUREMENT INITIATION REQUEST message was received. Otherwise, this measurement request shall apply for the requested Node B Communication Context ID only.

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", the measurement request shall be treated as a single measurement, despite applying to multiple contexts. This means that it may only be terminated or failed on "All NBCC".

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", the measurement shall be initiated only for those Node B Communication Contexts handling a mode (FDD, 3.84Mcps TDD, 7.68Mcps TDD or 1.28Mcps TDD) for which the concerned measurement is specified in TS 25.215 [4] and TS 25.225 [5]. The initiation of the measurement for a Node B Communication Context may be delayed until the Reconfiguration CFN has elapsed if either a Prepared Reconfiguration exists or a Prepared Reconfiguration no longer exists but the Reconfiguration CFN has not yet elapsed.

If the Dedicated Measurement Object Type is indicated as being "RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Links.

[FDD - If the Dedicated Measurement Object Type is indicated as being "RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Link Sets.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all current and future Radio Links within the Node B Communication Context.]

[TDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing DPCH

per CCTrCH in each used time slot of current and future Radio Links within the Node B Communication Context, provided the measurement type is applicable to the respective DPCH.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all existing and future Radio Link Sets within the Node B Communication Context.]

[TDD - If the *DPCH ID* IE or *DPCH ID 7.68Mcps* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE, *HS-SICH ID* IE, *DPCH ID 7.68Mcps* IE and no *PUSCH Information* IE is provided within the RL Information, the measurement request shall apply for one existing physical channel per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this physical channel.]

[TDD - If the *PUSCH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the *HS-SICH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the *Dedicated Measurement Type* IE is set to "HS-SICH reception quality", the Node B shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this Node B Communication Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the Node B shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". The reported CFN shall be the CFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]).

[FDD - If the *Number Of Reported Cell Portions* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the value shall be used to determine how many *Cell Portion ID* IEs and *SIR Value* IEs shall be included in *Best Cell Portions* IE in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

[1.28Mcps TDD - If the *Number Of Reported Cell Portions LCR* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the value shall be used to determine how many *Cell Portion LCR ID* IEs and *RSCP Value* IEs shall be included in *Best Cell Portions LCR* IE in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message.

Report characteristics

The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *CFN* IE is not provided, the Node B shall return the result of the measurement immediately. If the *CFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]).

If the *Report Characteristics* IE is set to "Periodic", the Node B shall periodically initiate the Dedicated Measurement Report procedure for this measurement, with the requested report frequency. If the *CFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model (TS 25.302 [25]).

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time.

After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. Then, the Node B shall initiate the Dedicated Measurement Reporting procedure in accordance to the following conditions:

- 1. If the Dedicated Measurement Type IE is set to "Best Cell Portions LCR":
 - The Node B shall initiate the Dedicated Measurement Reporting procedure when the Dedicated Measurement Value "Best Cell Portions LCR" changes.

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows

 F_n is the updated filtered measurement result

 F_{n-1} is the old filtered measurement result

 M_n is the latest received measurement result from physical layer measurements, the unit used for M_n is the same unit as the reported unit in the DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn)

 $a = 1/2^{(k/2)}$, where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, a shall be set to 1 (no filtering)

In order to initialise the averaging filter, F_0 is set to M_1 when the first measurement result from the physical layer measurement is received.

Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.3.9.2.

Response message

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the measurement request. The DEDICATED MEASUREMENT INITIATION RESPONSE message shall be sent even if the initiation is delayed for some Node B Communication Contexts due to an existing Prepared Reconfiguration or that the Reconfiguration CFN has not yet elapsed.

Only in the case where the *Report Characteristics* IE is set to "On Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the *Dedicated Measurement Object Type* IE containing the measurement result. [TDD - In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the *HS-SICH ID* IE that indicates which HS-SICH was measured.]

In the case where the *Node B Communication Context ID* IE is set to "All NBCC", the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE shall be set to the value "All CRNCCC", which is reserved for this purpose.

[FDD - If the *Alternative Format Reporting Indicator* IE is set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

Interaction with Reset Procedure:

If a measurement has been requested with the *Node B Communication Context ID* IE set to "All NBCC", the Node B shall terminate the measurement locally if either the CRNC or the Node B initiates the Reset procedure for the relevant Communication Control Port or the entire Node B.

8.3.8.3 Unsuccessful Operation

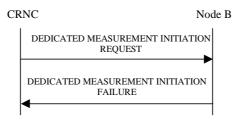


Figure 39: Dedicated Measurement Initiation procedure: Unsuccessful Operation

If the requested measurement cannot be initiated, the Node B shall send a DEDICATED MEASUREMENT INITIATION FAILURE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

In the case where the *Node B Communication Context ID* IE is set to "All NBCC" the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION FAILURE shall be set to the value "All CRNCCC", which is reserved for this purpose.

Typical cause values are as follows:

Radio Network Layer cause

- Measurement not supported for the object
- Measurement Temporarily not Available

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.3.8.4 Abnormal Conditions

The allowed combinations of the Dedicated Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

Table 4: Allowed Dedicated Measurement Type and Report Characteristics Type combinations

| Dedicated | Report Characteristics Type | | | | | | | | | |
|---------------------------------------|-----------------------------|----------|---------|---------|---------|---------|---------|---------|--------------------|--|
| Measurement Type | On Demand | Periodic | Event A | Event B | Event C | Event D | Event E | Event F | On Modification | |
| SIR | Х | Х | Х | Х | Х | Х | Х | Χ | | |
| SIR Error | X | X | Х | Х | Х | Χ | Х | Χ | | |
| Transmitted Code Power | Х | Х | Х | Х | Х | Х | Х | Х | | |
| RSCP | X | Х | Х | Х | Х | Х | Х | Χ | | |
| Rx Timing Deviation | X | Х | Х | Х | | | Χ | Χ | | |
| Round Trip Time | X | Х | Х | Х | Х | Х | Х | Χ | | |
| Rx Timing Deviation LCR | Х | Х | Х | Х | | | Х | Х | | |
| HS-SICH reception quality | Х | Х | Х | Х | | | Х | Х | | |
| Best Cell Portions | X | Х | | | | | | | | |
| Angle Of Arrival LCR | X | X | | | | | | | | |
| Rx Timing Deviation 7.68Mcps | Х | Х | Х | Х | | | Х | Х | | |
| Rx Timing Deviation 3.84Mcps Extended | Х | Х | Х | Х | | | Х | Х | | |
| Best Cell Portions LCR | Х | Х | | | | | | | Х | |

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. TS 25.215 [4] or TS 25.225 [5] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

If the *CFN* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic" or "On Demand", the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

8.3.9 Dedicated Measurement Reporting

8.3.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Dedicated Measurement Initiation procedure. The Node B may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link, as long as the Node B Communication Context exists.

8.3.9.2 Successful Operation



Figure 40: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate the Dedicated Measurement Reporting procedure. The DEDICATED MEASUREMENT REPORT message shall use the Communication Control Port assigned to the Node B Communication Context. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the Node B may include measurement values for multiple objects in the DEDICATED MEASUREMENT REPORT message. Unless specified below, the meaning of the parameters are given in other specifications.

The *Measurement ID* IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

[TDD - In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the *HS-SICH ID* IE that indicates which HS-SICH was measured.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref. TS 25.133 [22] and TS 25.123 [23]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Measurement not available shall be reported. If the Node B was configured to perform the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. TS 25.133 [22] and TS 25.123 [23]) and include the *Measurement Recovery Report Indicator* IE in the DEDICATED MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

[FDD - If the *Alternative Format Reporting Indicator* IE was set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message setting up the measurement to be reported, the Node B may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT REPORT message.]

8.3.9.3 Abnormal Conditions

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8.3.10 Dedicated Measurement Termination

8.3.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Dedicated Measurement Initiation procedure.

The Dedicated Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1 except if the measurement was initiated by the Dedicated Measurement Initiation procedure using the reserved value "All NBCC".

If the measurement was initiated by the Dedicated Measurement Initiation procedure using the reserved value "All NBCC", the Dedicated Measurement Termination procedure may be initiated by the CRNC at any time.

8.3.10.2 Successful Operation



Figure 41: Dedicated Measurement Termination procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Communication Control Port assigned to the Node B Communication Context.

Upon reception, the Node B shall terminate reporting of dedicated measurements corresponding to the received *Measurement ID* IE.

8.3.10.3 Abnormal Conditions

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8.3.11 Dedicated Measurement Failure

8.3.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Dedicated Measurement Initiation procedure can no longer be reported. The Node B is allowed to initiate the DEDICATED MEASUREMENT FAILURE INDICATION message at any time after having sent the RADIO LINK SETUP RESPONSE message, as long as the Node B Communication Context exists.

8.3.11.2 Successful Operation



Figure 42: Dedicated Measurement Failure procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the Communication Control Port assigned to the Node B Communication Context, to inform the CRNC that a previously requested measurement can no longer be reported. The Node B has locally terminated the indicated measurement.

If the failed measurement was initiated with the *Node B Communication Context ID* IE set to the reserved value "All NBCC" and the Node B has terminated the measurement reporting of the measurement corresponding to the Measurement ID indicated in the DEDICATED MEASUREMENT FAILURE INDICATION message, the *CRNC Communication Context ID* IE shall be set to the value "All CRNCCC".

8.3.11.3 Abnormal Conditions

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8.3.12 Radio Link Failure

8.3.12.1 General

This procedure is used by the Node B to indicate a failure in one or more Radio Links [FDD - or Radio Link Sets][TDD or CCTrCHs within a Radio Link].

The Node B may initiate the Radio Link Failure procedure at any time after establishing a Radio Link.

8.3.12.2 Successful Operation



Figure 43: Radio Link Failure procedure, Successful Operation

When the Node B detects that one or more Radio Link(s) [FDD - or Radio Link Set(s)] [TDD - or CCTrCHs within a Radio Link] are no longer available, it sends the RADIO LINK FAILURE INDICATION message to the CRNC indicating the failed Radio Link(s) or Radio Link Set(s) or CCTrCHs with the most appropriate cause values in the *Cause* IE. The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

If the failure concerns one or more individual Radio Link(s), the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE. [FDD - If the failure concerns one or more Radio Link Set(s), the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE.] [TDD - If the failure concerns only the failure of one or more CCTrCHs within a radio link, the Node B shall indicate the affected CCTrCHs using the *CCTrCH ID* IE.]

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation of a [FDD - Radio Link Set] [TDD - Radio Link or CCTrCHs within a Radio Link] on the Uu interface, the RADIO LINK FAILURE INDICATION message shall be sent, with the *Cause* IE set to "Synchronisation Failure", when indicated by the UL out-of-sync algorithm defined in TS 25.214 [10] and TS 25.224 [21]. [FDD - The algorithms in TS 25.214 [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - When the Radio Link Failure procedure is used to indicate permanent failure in one or more Radio Link(s) / Radio Link Set(s) due to the occurrence of an UL or DL frame with more than one transmission gap caused by one or more compressed mode pattern sequences, the DL transmission shall be stopped and the RADIO LINK FAILURE INDICATION message shall be sent with the cause value "Invalid CM Settings". After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link(s)/Radio Link Set(s) from the Node B Communication Context or the Node B Communication Context itself.]

[FDD - When the Radio Link Failure Procedure is used to indicate E-DCH non serving cell processing issue, the RADIO LINK FAILURE INDICATION shall be sent, with the *Cause* IE set to "Not enough user plane processing resources".]

In the other cases, the Radio Link Failure procedure is used to indicate that one or more Radio Link(s)/Radio Link Set(s) are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link/Radio Link Set from the Node B Communication Context or the Node B Communication Context itself. When applicable, the retention priorities associated with the transport channels shall be used by the Node B to prioritise which Radio Link(s)/Radio Link Set(s) to indicate as unavailable to the CRNC.

Typical cause values are:

Radio Network Layer Causes:

- Synchronisation Failure
- Invalid CM settings

Transport Layer Causes:

- Transport Resources Unavailable

Miscellaneous Causes:

- Control Processing Overload
- HW Failure
- O&M Intervention
- Not enough user plane processing resources

8.3.12.3 Abnormal Conditions

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8.3.13 Radio Link Restoration

8.3.13.1 General

This procedure is used by the Node B to notify the achievement and re-achievement of uplink synchronisation of one or more [FDD - Radio Link Sets][TDD - Radio Links or CCTrCHs within a Radio Link] on the Uu interface.

The Node B may initiate the Radio Link Restoration procedure at any time after establishing a Radio Link.

8.3.13.2 Successful Operation

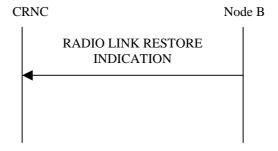


Figure 44: Radio Link Restoration procedure, Successful Operation

The Node B shall send the RADIO LINK RESTORE INDICATION message to the CRNC when indicated by the UL synchronisation detection algorithm defined in ref. TS 25.214 [10] and TS 25.224 [21] [FDD -, or when the *Fast Reconfiguration Mode* IE has been included in the RADIO LINK RECONFIGURATION COMMIT message and the Node B has detected that the UE has changed to the new configuration. The algorithm in ref. TS 25.214 [10] shall use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.] The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

[TDD - If the re-established Uu synchronisation concerns one or more individual Radio Links, the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE.] [TDD - If the re-established Uu synchronisation concerns one or more individual CCTrCHs within a radio link, the Node B shall indicate the affected CCTrCHs using the *CCTrCH ID* IE.] [FDD - If the re-established Uu synchronisation concerns one or more Radio Link Set(s), the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE.]

[FDD - The Node B shall send the RADIO LINK RESTORE INDICATION message when the E-DCH processing issue condition has ceased.]

8.3.13.3 Abnormal Condition

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8.3.14 Compressed Mode Command [FDD]

8.3.14.1 General

The Compressed Mode Command procedure is used to activate or deactivate the compressed mode in the Node B for one Node B Communication Context.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.14.2 Successful Operation



Figure 47: Compressed Mode Command procedure, Successful Operation

The procedure is initiated by the CRNC sending a COMPRESSED MODE COMMAND message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

The Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the *CM Configuration Change CFN* IE requested by the CRNC when receiving the COMPRESSED MODE COMMAND message from the CRNC. From that moment on, all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions (if present) shall be started when the indicated *TGCFN* IE elapses. The *CM Configuration Change CFN* IE in the *Active Pattern Sequence Information* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value.

If the values of the *CM Configuration Change CFN* IE and the *TGCFN* IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CM Configuration Change CFN* IE.

If the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to TS 25.211 [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.

8.3.14.3 Abnormal Conditions

[FDD – If the concerned Node B Communication Context is not configured to use F-DPCH in the downlink and if a transmission gap pattern sequence is activated with an SF/2 downlink compressed mode method and for any Radio Link the transmission gap pattern sequence code information is not available, the NodeB shall trigger the Radio Link Failure procedure with the cause value "Invalid CM Settings'.]

8.3.15 Downlink Power Timeslot Control [TDD]

8.3.15.1 General

The purpose of this procedure is to enable the Node B to use the indicated DL Timeslot ISCP values when deciding the DL TX Power for each timeslot.

The Downlink Power Timeslot Control procedure can be initiated by the CRNC at any time when the Node B Communication Context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this

Node B Communication Context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Timeslot Control procedure shall no longer be initiated.

8.3.15.2 Successful Operation



Figure 47A: Downlink Power Timeslot Control procedure, Successful Operation

The procedure is initiated by the CRNC sending a DL POWER TIMESLOT CONTROL REQUEST message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon reception, the Node B shall use the indicated DL Timeslot ISCP value when deciding the DL TX Power for each timeslot as specified in ref. TS 25.224 [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.

If the *Primary CCPCH RSCP Delta* IE is included, the Node B shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per TS 25.123 [23], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the Node B shall assume that the reported value is in the non-negative range as per TS 25.123 [23], and the value is equal to the *Primary CCPCH RSCP* IE. The Node B should use the indicated value for HS-DSCH scheduling and transmit power adjustment.

8.3.15.3 Abnormal Conditions

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8.3.16 Radio Link Pre-emption

8.3.16.1 General

This procedure is started by the Node B when resources need to be freed.

The Node B may initiate the Radio Link Pre-emption procedure at any time after establishing a Radio Link.

8.3.16.2 Successful Operation

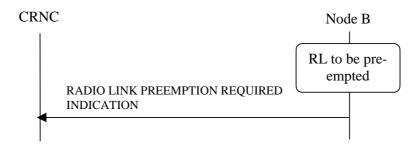


Figure 47B: Radio Link Pre-emption procedure, Successful Operation

When the Node B detects that a one or more Radio Links should be pre-empted (see Annex A), it shall send the RADIO LINK PREEMPTION REQUIRED INDICATION message to the CRNC using the Communication Control Port assigned to the concerned Node B Communication Context.

If all Radio Links for a CRNC Communication Context ID should be pre-empted, the *RL Information* IE shall be omitted. If one or several but not all Radio Links should be pre-empted for a CRNC Communication Context, the Radio

Links that should be pre-empted shall be indicated in the *RL Information* IE. The Radio Link(s) that should be pre-empted should be deleted by the CRNC.

8.3.16.3 Abnormal Conditions

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8.3.17 Bearer Re-arrangement

8.3.17.1 General

This procedure is started by the Node B when Bearers for the Node B Communication Context need to be rearranged.

The Node B may initiate the Bearer Rearrangement procedure at any time after establishing a Radio Link.

8.3.17.2 Successful Operation

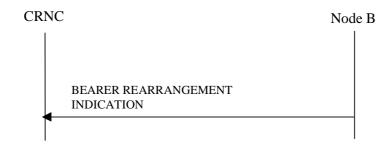


Figure 47C: Bearer Re-arrangement Indication, Successful Operation

When the Node B detects that a signaling bearer or a transport bearer or both need to be re-arranged for the Node B Communication Context, it shall send the BEARER REARRANGEMENT INDICATION message to the CRNC. The message shall use the Communication Control Port assigned for this Node B Communication Context.

If the signaling bearer for the control of the Node B Communication Context needs to be rearranged, the *Signalling Bearer Requested Indicator* IE shall be included in the BEARER REARRANGEMENT INDICATION message.

If the transport bearer for a transport channel needs to be rearranged, the ID of the transport channel for which a new transport bearer is required, shall be included in the BEARER REARRANGEMENT INDICATION message.

[FDD - If the separate Iub transportr bearer mode is used and the transport bearer for an E-DCH MAC-d flow needs to be rearranged, the *Additional E-DCH Cell Information Bearer Rearrangement* IE shall be included in the BEARER REARRANGEMENT INDICATION message.]

8.3.17.3 Abnormal Conditions

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8.3.18 Radio Link Activation

8.3.18.1 General

This procedure is used to activate or de-activate the DL transmission on the Uu interface regarding selected RLs.

8.3.18.2 Successful Operation



Figure 47D: Radio Link Activation procedure

This procedure is initiated by sending the RADIO LINK ACTIVATION COMMAND message from the CRNC to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context. Upon reception, the Node B shall for each concerned RL:

- if the Delayed Activation Update IE indicates "Activate":
 - if the *Activation Type* IE equals "Unsynchronised":
 - [FDD start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in TS 25.427 [16].]
 - [TDD start transmission on the new RL immediately as specified in TS 25.427 [16].]
 - if the *Activation Type* IE equals "Synchronised":
 - [FDD start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in TS 25.427 [16], however never before the CFN indicated in the *Activation CFN* IE.]
 - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in TS 25.427 [16].]
 - [FDD the Node B shall apply the power level indicated in the *Initial DL Tx Power* IE to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or power balancing is activated. During this period no inner loop power control shall be performed and, unless activated by the DL POWER CONTROL REQUEST message, no power balancing shall be performed. The DL power shall then vary according to the inner loop power control (see ref. TS 25.214 [10], subclause 5.2.1.2) and downlink power balancing adjustments (see subclause 8.3.7).]
 - [TDD the Node B shall apply the power level indicated in the *Initial DL Tx Power* IE to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu interface is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. TS 25.133 [22], subclause 4.2.3.3).]
 - [FDD if the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the Node B may use this information to speed up the detection of UL synchronisation on the Uu interface.]
 - [FDD if the *First RLS Indicator* IE is included, it indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC Pattern 01 Count* IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in TS 25.214 [10], section 5.1.2.2.1.2.]
- if the Delayed Activation Update IE indicates "Deactivate":
 - stop DL transmission immediately, if the *Deactivation Type* IE equals "Unsynchronised", or at the CFN indicated by the *Deactivation CFN* IE, if the *Deactivation Type* IE equals "Synchronised".

8.3.18.3 Abnormal Conditions

[FDD - If the *Delayed Activation Update* IE is included in the RADIO LINK ACTIVATION COMMAND message, it indicates "Activate" and the *First RLS Indicator* IE is not included, the Node B shall initiate the Error Indication procedure.]

8.3.19 Radio Link Parameter Update

8.3.19.1 General

The Radio Link Parameter Update procedure is excuted by the Node B when the update of HS-DSCH [FDD - or E-DCH] related radio link parameter values are needed on the Node B side. With this procedure, Node B can suggest some HS-DSCH [FDD - or E-DCH] related Radio Link Parameter values to RNC.

The Radio Link Parameter Update procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.19.2 Successful Operation



Figure 48: Radio Link Parameter Update Indication, Successful Operartion

The Node B initiates the Radio Link Parameter Update procedure by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the CRNC. The message contains suggested value(s) of the HS-DSCH [FDD - or E-DCH] related parameter(s) that should be reconfigured on the radio link(s).

If the Node B needs to update HS-DSCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including [FDD - HS-DSCH FDD Update Information IE] [TDD - HS-DSCH TDD Update Information IE].

If the Node B needs to allocate new HS-SCCH Codes, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-SCCH Code Change Indicator* IE.

[FDD - If the Node B needs to allocate new HS-PDSCH Codes, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-PDSCH Code Change Indicator* IE.]

[FDD - If the Node B needs to update the CQI Feedback Cycle k, CQI Repetition Factor, ACK-NACK Repetition Factor, CQI Power Offset, ACK Power Offset and/or NACK Power Offset, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CQI Feedback Cycle k* IE, *CQI Repetition Factor* IE, *ACK NACK Repetition Factor* IE, *CQI Power Offset* IE, *ACK Power Offset* IE and/or *NACK Power Offset* IE.]

[FDD - If the Node B needs to update Secondary Serving HS-DSCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Additional HS Cell Information RL Param Upd* IE.]

- [FDD - If the Node B needs to allocate new secondary serving HS-SCCH Codes, the Node B shall include the *HS-SCCH Code Change Indicator* IE in the *HS-DSCH FDD Secondary Serving Update Information* IE.]

[TDD - If the Node B needs to update the TDD ACK-NACK Power Offset the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including TDD ACK-NACK Power Offset IE.]

[FDD - If the Node B needs to update E-DCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *E-DCH FDD Update Information* IE.]

[FDD - If the Node B needs to update the HARQ process allocation for non-scheduled transmission and/or HARQ process allocation for scheduled Transmission, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *HARQ Process Allocation For 2ms Non-Scheduled Transmission* Grant IE for the concerned MAC-d Flows and/or *HARQ Process Allocation For 2ms Scheduled Transmission* Grant IE.]

[FDD - If the Node B needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *E-DCH DL Control Channel Change Information* IE.]

[FDD - If the Node B needs to update Additional E-DCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Additional E-DCH Cell Information RL Param Upd* IE.]

- [FDD If the Node B needs to update the HARQ process allocation for scheduled Transmission, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *HARQ Process Allocation For 2ms Scheduled Transmission* Grant IE for the concerned MAC-d Flows.]
- [FDD If the Node B needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Additional E-DCH DL Control Channel Change Information* IE.]

[FDD – If the Node B needs to indicate that the CPC Recovery has been initiated, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CPC Recovery Report* IE.]

8.3.19.3 Abnormal Conditions

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8.3.20 Secondary UL Frequency Reporting [FDD]

8.3.20.1 General

The purpose of this procedure is to inform the Node B about the activation state of the secondary UL frequency of the UE in Dual Cell E-DCH operation.

8.3.20.2 Successful Operation

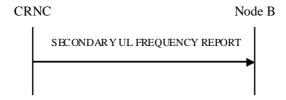


Figure 48A: Secondary UL Frequency Reporting procedure

The Secondary UL Frequency Reporting procedure is initiated by sending the SECONDARY UL FREQUENCY REPORT message from the CRNC to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

The *Activation Information* IE is included it defines the local activation state of the Secondary uplink frequency of the UE in Dual Cell E-DCH operation.

- If the value of *Uu Activation State* IE is "Activated": the Node B shall if supported use this information for resource allocation operation of the secondary E-DCH radio link(s), F-DPCH transmission and DPCCH detection.
- If the value of *Uu Activation State* IE is "De-Activated": the Node B shall if supported use this information for release of the related resources for the secondary E-DCH radio link(s), cease of F-DPCH transmission and DPCCH detection.

8.3.20.3 Abnormal Conditions

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8.3.21 Secondary UL Frequency Update [FDD]

8.3.21.1 General

The purpose of this procedure is to inform the CRNC about updates to activation state of the secondary UL frequency of the UE in Dual Cell E-DCH operation .

8.3.21.2 Successful Operation

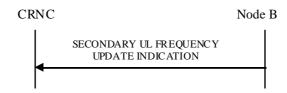


Figure 48B: Secondary UL Frequency Update procedure

The Secondary UL Frequency Update procedure is initiated by the Node B by sending the SECONDARY UL FREQUENCY UPDATE INDICATION message to the CRNC. The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

If the Node B needs to update the local activation state of the Secondary uplink frequency of the UE in Dual Cell E-DCH operation, the Node B shall send SECONDARY UL FREQUENCY UPDATE INDICATION message and include the *Activation Information* IE.

8.3.21.3 Abnormal Conditions

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8.4 Error Handling Procedures

8.4.1 Error Indication

8.4.1.1 General

The Error Indication procedure is initiated by a node in order to report detected errors in one incoming message, provided they cannot be reported by an appropriate response message.

8.4.1.2 Successful Operation

When the conditions defined in subclause 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node.

In case the Error Indication procedure was triggered by a dedicated procedure, the following applies:

- When the ERROR INDICATION message is sent from a Node B to its CRNC, the *CRNC Communication Context ID* IE shall be included in the message if the corresponding Node B Communication Context, addressed by the *Node B Communication Context ID* IE which was received in the message triggering the Error Indication procedure, exists;
- When the ERROR INDICATION message is sent from a CRNC to a Node B, the *Node B Communication Context ID* IE shall be included in the message if the corresponding CRNC Communication Context, addressed by the *CRNC Communication Context ID* IE which was received in the message triggering the Error Indication procedure, exists;
- When the message triggering the Error Indication procedure is received in the Node B and there is no Node B Communication Context as indicated by the *Node B Communication Context ID* IE, the Node B shall include the

unknown *Node B Communication Context ID* IE from the received message in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

- When the message triggering the Error Indication procedure is received in the CRNC and there is no CRNC Communication Context as indicated by the *CRNC Communication Context ID* IE, the CRNC shall include the unknown *CRNC Communication Context ID* IE from the received message in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

The ERROR INDICATION message shall include either the *Cause* IE, or the *Criticality Diagnostics* IE or both the *Cause* IE and the *Criticality Diagnostics* IE.

Typical cause values for the ERROR INDICATION message are:

Protocol Causes:

- Transfer Syntax Error
- Abstract Syntax Error (Reject)
- Abstract Syntax Error (Ignore and Notify)
- Message not Compatible with Receiver State
- Unspecified



Figure 49: Error Indication procedure (Node B to CRNC): Successful Operation

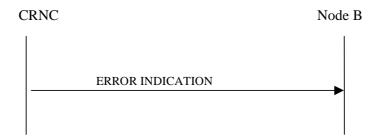


Figure 50: Error Indication procedure (CRNC to Node B), Successful Operation

8.4.1.3 Abnormal Conditions

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9 Elements for NBAP communication

9.1 Message Functional Definition and Contents

9.1.1 General

Subclause 9.1 presents the contents of NBAP messages in tabular format. The corresponding ASN.1 definition is presented in subclause 9.3. In case there is contradiction between the tabular format in subclause 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, where the tabular format shall take precedence.

NOTE: The messages have been defined in accordance to the guidelines specified in ref. TR 25.921 [26].

9.1.2 Message Contents

9.1.2.1 Presence

An information element can be of the following types:

| M | IEs marked as Mandatory (M) shall always be included in the message. |
|---|--|
| 0 | IEs marked as Optional (O) may or may not be included in the message. |
| С | IEs marked as Conditional (C) shall be included in a message only if the condition is satisfied. |
| | Otherwise the IE shall not be included. |

In case of an Information Element group, the group is preceded by a name for the info group (in bold). It is also indicated how many times a group may be repeated in the message and whether the group is conditional. The presence field of the Information Elements inside one group defines if the Information Element is mandatory, optional or conditional if the group is present.

9.1.2.2 Criticality

Each Information Element or Group of Information Elements may have a criticality information applied to it. Following cases are possible:

| - | No criticality information is applied explicitly. |
|--------|---|
| YES | Criticality information is applied. "YES" is usable only for non-repeatable information elements. |
| GLOBAL | The information element and all its repetitions together have one common criticality information. |
| | "GLOBAL" is usable only for repeatable information elements. |
| EACH | Each repetition of the information element has its own criticality information. It is not allowed to assign |
| | different criticality values to the repetitions. "EACH" is usable only for repeatable information elements. |

9.1.2.3 Range

The Range column indicates the allowed number of copies of repetitive IEs.

9.1.2.4 Assigned Criticality

This column provides the actual criticality information as defined in subclause 10.3.2, if applicable.

9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

FDD Message 9.1.3.1

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|---|------------------------------------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | М | | 9.2.1.16 | | YES | reject |
| CHOICE Common Physical Channel To Be Configured | М | | | | YES | ignore |
| >Secondary CCPCH | | | | | | |
| >>Secondary CCPCH | | 1 | | | _ | |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>>FDD SCCPCH Offset | M | | 9.2.2.15 | Corresponds to TS 25.211 [7]: | _ | |
| >>>DL Scrambling Code | C-PCH | | 9.2.2.13 | | _ | |
| >>>FDD DL Channelisation Code Number | М | | 9.2.2.14 | In case of IMB using multiple channelization codes then this IE indicates the first one. | - | |
| >>>TFCS | М | | 9.2.1.58 | For the DL. | _ | |
| >>>Secondary CCPCH Slot Format | М | | 9.2.2.43 | If Extended Secondary CCPCH Slot Format IE is present, this IE shall be ignored | - | |
| >>>TFCI Presence | C- SlotFormat or 3.84Mcps TDD IMB | | 9.2.1.57 | Refer to TS 25.211 [7] | - | |
| >>>Multiplexing Position | М | | 9.2.2.23 | | _ | |
| >>>Power Offset Information | | 1 | | | _ | |
| >>>>PO1 | M | | Power Offset 9.2.2.29 | Power offset for the TFCI bits | _ | |
| >>>>PO3 | М | | Power Offset 9.2.2.29 | Power offset for the pilot bits | _ | |
| >>>STTD Indicator | М | | 9.2.2.48 | | _ | |
| >>>FACH Parameters | | 0 <maxno ofFACHs></maxno | | | GLOBAL | reject |
| >>>Common Transport Channel ID | M | | 9.2.1.14 | | _ | |
| >>>Transport Format Set | М | | 9.2.1.59 | For the DL. | _ | |
| >>>ToAWS | М | | 9.2.1.61 | | _ | |
| >>>ToAWE | М | | 9.2.1.60 | | _ | |

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| >>>MICH Parameters | | 01 | | | YES | reject |
|--|---|---|----------------------------|---|-----|--------|
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>>>FDD DL Channelisation Code Number | М | | 9.2.2.14 | | - | |
| >>>MICH Power | M | | PICH Power 9.2.1.49A | | I | |
| >>>MICH Mode | М | | 9.2.2.21D | Number of NI per frame | _ | |
| >>>STTD Indicator | М | | 9.2.2.48 | | _ | |
| >>>FDD S-CCPCH Frame Offset | 0 | | 9.2.2.14B | | YES | reject |
| >>>Modulation Power Offset | 0 | | 9.2.2.91 | Used for MBSFN operation and 3.84Mcps TDD MBSFN IMB operation only | YES | reject |
| >>>Extended Secondary CCPCH Slot Format | 0 | | 9.2.2.92 | Used for MBSFN operation only | YES | reject |
| >>>IMB Parameters | 0 | | 9.2.2.115 | Used for 3.84Mcps TDD MBSFN IMB operation only | YES | reject |
| >PRACH | | | | | | |
| >>PRACH | | 1 | | | _ | |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>>Scrambling Code Number | М | | 9.2.2.42 | | _ | |
| >>>TFCS | М | | 9.2.1.58 | For the UL. | ı | |
| >>>Preamble Signatures | М | | 9.2.2.31 | | _ | |
| >>>Allowed Slot Format Information | | 1 <maxno ofSlotForm atsPRACH ></maxno | | | 1 | |
| >>>>RACH Slot Format | М | | 9.2.2.37 | | _ | |
| >>>RACH Sub Channel Numbers | М | | 9.2.2.38 | | _ | |
| >>>Puncture Limit | М | | 9.2.1.50 | For the UL | _ | |
| >>>Preamble Threshold | М | | 9.2.2.32 | | - | |
| >>>RACH Parameters | | 1 | | | YES | reject |
| >>>>Common Transport Channel ID | М | | 9.2.1.14 | | _ | |
| >>>Transport Format Set | М | | 9.2.1.59 | For the UL. | _ | |
| >>>Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

| >>>>Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
|--|---|---|-----------|--|-----|--------|
| >>>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>AICH Parameters | | 1 | | | _ | |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >>>AICH Transmission Timing | М | | 9.2.2.1 | | - | |
| >>>FDD DL Channelisation Code Number | М | | 9.2.2.14 | | 1 | |
| >>>AICH Power | М | | 9.2.2.D | | _ | |
| >>>STTD Indicator | М | | 9.2.2.48 | | _ | |
| >Not Used | | | NULL | This choice shall not be used. Reject procedure if received. | | |

| Condition | Explanation |
|--------------------------------|---|
| SlotFormat or 3.84Mcps TDD IMB | The IE shall be present if the Secondary CCPCH Slot Format IE is set to |
| | any of the values from 8 to 17 or if the IMB Parameters IE is included. |
| PCH | The IE shall be present if the PCH Parameters IE is not present. |

| Range Bound | Explanation |
|-------------------------|--|
| maxnoofFACHs | Maximum number of FACHs that can be defined on a Secondary |
| | CCPCH |
| maxnoofSlotFormatsPRACH | Maximum number of SF for a PRACH |

9.1.3.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|--|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | М | | 9.2.1.16 | | YES | reject |
| CHOICE Common Physical | М | | | | YES | ignore |
| Channel To Be Configured | | | | | | |
| >Secondary CCPCHs | | | | | | |
| >>SCCPCH CCTrCH ID | М | | 9.2.3.3 | For DL CCTrCH supporting one or several Secondary CCPCHs | _ | |
| >>TFCS | M | | 9.2.1.58 | For DL CCTrCH supporting one or several Secondary CCPCHs | _ | |
| >>TFCI Coding | М | | 9.2.3.22 | | _ | |
| >>Puncture Limit | М | | 9.2.1.50 | | _ | |
| >>CHOICE HCR or LCR | М | | | See note 1 | _ | |
| or 7.68 Mcps | | | | below | | |
| >>>3.84Mcps TDD | | | | | _ | |
| >>>Secondary CCPCH | | 1 <maxno ofSCCPC Hs></maxno | | See note 2 below | GLOBAL | reject |
| >>>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>>>TDD Channelisation Code | М | | 9.2.3.19 | | _ | |
| >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>>Midamble Shift And Burst Type | М | | 9.2.3.7 | | _ | |
| >>>>TDD Physical Channel Offset | М | | 9.2.3.20 | | _ | |
| >>>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>>SCCPCH Power | М | | DL Power 9.2.1.21 | | _ | |
| >>>>TFCI Presence | 0 | | 9.2.1.57 | | YES | notify |
| >>>1.28Mcps TDD | | | | 0 | - | |
| >>>Secondary CCPCH LCR | | 1 <maxno ofSCCPC HsLCR></maxno | | See note 2 below | GLOBAL | reject |
| >>>>Common Physical Channel ID | M | | 9.2.1.13 | | _ | |

| | | | 1 | | | |
|--|---|--|--|--|--------|--------|
| >>>>TDD Channelisation Code LCR | M | | 9.2.3.19a | | - | |
| >>>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>>>Midamble Shift LCR | М | | 9.2.3.7A | For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, the NodeB shall ignore the contents of this IE. | - | |
| >>>>TDD Physical Channel Offset | М | | 9.2.3.20 | | _ | |
| >>>>Repetition Period | М | | 9.2.3.16 | | - | |
| >>>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>>SCCPCH Power | М | | DL Power 9.2.1.21 | | _ | |
| >>>>SCCPCH Time Slot Format LCR | M | | TDD DL DPCH Time Slot Format LCR 9.2.3.19D | | - | |
| >>>>MBSFN Special Time Slot LCR | O | | Time Slot LCR Extension 9.2.3.24B | Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot (TS 25.221 [19]). The <i>Time Slot</i> LCR IE for the Secondary CCPCH LCR shall be ignored if this IE appears. | YES | ignore |
| >>>7.68 Mcps TDD | | | | | _ | |
| >>>Secondary CCPCH 7.68 Mcps | | 1 <maxno ofSCCPC Hs768></maxno | | | GLOBAL | reject |
| >>>>Common Physical Channel ID 768Mcps | М | | 9.2.3.33 | | _ | |
| >>>>TDD Channelisation Code 7.68Mcps | М | | 9.2.3.34 | | - | |
| >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>>TFCI Presence | 0 | | 9.2.1.57 | | - | |
| >>>>Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | - | |

| | 1 | 1 | | | 1 | |
|-------------------------------------|---|------------------------------------|----------------------|--|--------|--------|
| >>>>TDD Physical Channel Offset | М | | 9.2.3.20 | | _ | |
| >>>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>>SCCPCH Power | М | | DL Power 9.2.1.21 | | _ | |
| >>FACH Parameters | | 0 <maxno ofFACHs></maxno | 0.2.1.21 | | GLOBAL | reject |
| >>>Common Transport Channel ID | М | | 9.2.1.14 | | _ | |
| >>>FACH CCTrCH ID | М | | CCTrCH ID 9.2.3.3 | | _ | |
| >>>Transport Format Set | М | | 9.2.1.59 | For the DL. | _ | |
| >>>ToAWS | М | | 9.2.1.61 | | _ | |
| >>>ToAWE | M | 1 | 9.2.1.60 | | | |
| >>>Max FACH Power | 0 | + | DL Power | Applicable to | YES | reject |
| >>>IMIAX FACH FUWEI | | | 9.2.1.21 | 1.28Mcps TDD only | 123 | reject |
| >>>Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>Broadcast Reference | 0 | | 9.2.1.5C | | YES | ignore |
| >>>IP Multicast Indication | 0 | | 9.2.1.108 | | YES | ignore |
| >>PCH Parameters | | 01 | | | YES | reject |
| >>>Common Transport Channel ID | М | | 9.2.1.14 | | _ | • |
| >>>PCH CCTrCH ID | M | | CCTrCH ID 9.2.3.3 | | _ | |
| >>>Transport Format Set | М | | 9.2.1.59 | For the DL. | _ | |
| >>>ToAWS | М | | 9.2.1.61 | | _ | |
| >>>ToAWE | M | | 9.2.1.60 | | _ | |
| >>>CHOICE HCR or LCR or 7.68Mcps | M | | | See note 1 below | _ | |
| >>>3.84Mcps TDD | | 1 | | 20.0 | _ | |
| >>>>PICH | | 01 | | | YES | reject |
| >>>>FICH Parameters | | 01 | | | 163 | reject |
| >>>>Common Physical Channel | М | | 9.2.1.13 | | - | |
| ID | | | | | | |

| | • | | 1 | 1 | | • |
|------------------|----------|---------|-------------|---|-----|--------|
| >>>>TDD | M | | 9.2.3.19 | | _ | |
| Channelisation | | | | | | |
| Code | | | | | | |
| >>>>Time Slot | М | | 9.2.3.23 | | - | |
| >>>>Midamble | M | | 9.2.3.7 | | _ | |
| Shift And Burst | 101 | | 0.2.0.7 | | | |
| | | | | | | |
| Туре | . | | 0.000 | | | |
| >>>>TDD | M | | 9.2.3.20 | | _ | |
| Physical Channel | | | | | | |
| Offset | | | | | | |
| >>>>Repetition | М | | 9.2.3.16 | | _ | |
| Period | | | | | | |
| >>>>Repetition | М | | 9.2.3.15 | | _ | |
| Length | | | | | | |
| >>>>Paging | M | | 9.2.3.8 | | | |
| | IVI | | 9.2.3.0 | | _ | |
| Indicator Length | | | | | | |
| >>>>PICH | M | | 9.2.1.49A | | _ | |
| Power | | | | | | |
| >>>>1.28Mcps TDD | | | | | _ | |
| >>>>PICH | | 01 | | | YES | reject |
| Parameters LCR | | | | | | |
| >>>>Common | М | | 9.2.1.13 | | _ | |
| Physical Channel | | | 0.2 | | | |
| ID | | | | | | |
| >>>>TDD | M | | 0.0.0.40= | | | |
| | IVI | | 9.2.3.19a | | _ | |
| Channelisation | | | | | | |
| Code LCR | | | | | | |
| >>>>Time Slot | M | | 9.2.3.24A | | _ | |
| LCR | | | | | | |
| >>>> Midamble | М | | 9.2.3.7A | | _ | |
| Shift LCR | | | | | | |
| >>>>TDD | М | | 9.2.3.20 | | _ | |
| Physical Channel | | | 0.2.0.20 | | | |
| Offset | | | | | | |
| | | | 0.0.0.40 | | | |
| >>>>Repetition | M | | 9.2.3.16 | | _ | |
| Period | | | | | | |
| >>>>Repetition | M | | 9.2.3.15 | | _ | |
| Length | | | | | | |
| >>>>Paging | М | _ | 9.2.3.8 | | | |
| Indicator Length | | | | | | |
| >>>>PICH | М | | 9.2.1.49A | | _ | |
| Power | | | | | | |
| >>>>Second | M | + | TDD | | _ | |
| TDD | '*' | | Channelisat | | | |
| Channelisation | | | ion Code | | | |
| Code LCR | | | LCR | | | |
| | | | 9.2.3.19a | | | |
| >>>>TSTD | 0 | | 9.2.1.64 | | YES | reject |
| Indicator | | <u></u> | <u> </u> | | | |
| >>>7.68Mcps TDD | | | | | | |
| >>>>PICH | | 01 | | | YES | reject |
| Parameters | | | | | 3 | -,,- |
| >>>>Common | М | + | 9.2.3.33 | | | |
| | IVI | | ಶ.೭.ಎ.ಎಎ | | _ | |
| Physical Channel | | | | | | |
| ID 768Mcps | | - | | | | |
| >>>>TDD | M | | 9.2.3.34 | | _ | |
| Channelisation | | | | | | |
| Code 7.68Mcps | | 1 | | | | |
| >>>>Time Slot | М | | 9.2.3.23 | | _ | |
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|--|--------------------------|---|----|-----------|---------------------------------------|-----|--------|
| New Physical Channel Offset | Shift And Burst | M | | 9.2.3.35 | | - | |
| Period | >>>>TDD Physical Channel | М | | 9.2.3.20 | | _ | |
| Name | 1 | М | | 9.2.3.16 | | - | |
| Name | >>>>Repetition | М | | 9.2.3.15 | | _ | |
| New Number NewNumber New Number New Number New Number New Number New | >>>>Paging | М | | 9.2.3.8 | | - | |
| 9.2.1.21 1.28Mcps TDD only | >>>> PICH | М | | 9.2.1.49A | | _ | |
| Ignored if bearer establishment with ALCAP. | >>>PCH Power | 0 | | | 1.28Mcps TDD | YES | reject |
| Symbol S | >>>Binding ID | 0 | | 9.2.1.4 | ignored if bearer establishment | YES | ignore |
| ignored if bearer establishment with ALCAP. | | 0 | | 9.2.1.63 | ignored if bearer establishment | | ignore |
| SMICH Parameters O.1 9.2.1.13 - | >>>TNL QoS | | | | ignored if bearer establishment | | ignore |
| No. No. | >>TSTD Indicator | 0 | | 9.2.1.64 | | YES | reject |
| No. No. | >>MICH Parameters | | 01 | | | YES | reject |
| Channel Offset | | М | | 9.2.1.13 | | _ | |
| >>>Repetition Length M 9.2.3.15 - >>>Notification Indicator Length M 9.2.3.7Aa - >>>MICH Power M PICH Power 9.2.1.49A - >>>CHOICE HCR or LCR or 7.68 Mcps M - - >>>>MICH Parameters HCR 1 - - >>>>>TDD Channelisation Code M 9.2.3.19 - >>>>>Time Slot M 9.2.3.23 - >>>>>Midamble Shift And Burst Type M 9.2.3.7 - | - | М | | 9.2.3.20 | | _ | |
| >>>Notification Indicator Length M 9.2.3.7Aa - >>>MICH Power M PICH Power 9.2.1.49A - >>>CHOICE HCR or LCR or 7.68 Mcps M - - >>>>MICH Parameters HCR 1 - - >>>>>TDD Channelisation Code M 9.2.3.19 - - >>>>>>Time Slot M 9.2.3.23 - - Shift And Burst Type Shift And Burst Type - - - | >>>Repetition Period | М | | 9.2.3.16 | | - | |
| Length | >>>Repetition Length | М | | 9.2.3.15 | | - | |
| Power 9.2.1.49A | | М | | 9.2.3.7Aa | | - | |
| LCR or 7.68 Mcps | >>>MICH Power | M | | Power | | I | |
| >>>>MICH Parameters HCR 1 - >>>>>TDD Channelisation Code M 9.2.3.19 - >>>>>Time Slot M 9.2.3.23 - >>>>>Midamble Shift And Burst Type M 9.2.3.7 - | | М | | | | ı | |
| >>>>MICH Parameters HCR 1 - >>>>>TDD Channelisation Code M 9.2.3.19 - >>>>>Time Slot M 9.2.3.23 - >>>>>Midamble Shift And Burst Type M 9.2.3.7 - | · | | | | | | |
| >>>>>TDD M 9.2.3.19 - Channelisation Code - - >>>>>Time Slot M 9.2.3.23 - >>>>>Midamble M 9.2.3.7 - Shift And Burst Type - - | | | 1 | | | _ | |
| Channelisation 9.2.3.23 >>>>>Time Slot M >>>>>Midamble M Shift And Burst 9.2.3.7 Type — | Parameters HCR | | | | | | |
| >>>>>Midamble M 9.2.3.7 — Shift And Burst Type | Channelisation | М | | 9.2.3.19 | | _ | |
| >>>>>Midamble M 9.2.3.7 — Shift And Burst Type | >>>> Time Slot | М | | 9.2.3.23 | | | |
| | Shift And Burst | М | | | | _ | |
| | >>>>1.28Mcps TDD | | | | | | |

| >>>>MICH | | 1 | | | _ | |
|---|---|----|--|--|--------|--------|
| >>>>TDD Channelisation Code LCR | М | | 9.2.3.19a | | - | |
| >>>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>>>Midamble Shift LCR | M | | 9.2.3.7A | For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, the NodeB shall ignore the contents of this IE. | - | |
| >>>>Second TDD Channelisation Code LCR | M | | TDD Channelisat ion Code LCR 9.2.3.19a | | - | |
| >>>>TSTD Indicator | M | | 9.2.1.64 | | _ | |
| >>>>>MBSFN Special Time Slot LCR | 0 | | Time Slot LCR Extension 9.2.3.24B | Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot (TS 25.221 [19]). The <i>Time Slot</i> LCR IE for the MICH parameters LCR shall be ignored if this IE appears. | YES | ignore |
| >>>7.68 Mcps TDD | | 1 | | | _ | |
| >>>>MICH Parameters 7.68 Mcps | | | | | _ | |
| >>>>TDD Channelisation Code 7.68Mcps | M | | 9.2.3.34 | | _ | |
| >>>>Time Slot | M | | 9.2.3.23 | | _ | |
| >>>>>Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | _ | |
| >>Modulation | 0 | | 9.2.1.87 | Applicable to 3.84Mcps TDD and 7.68Mcps TDD in MBSFN operation only | YES | reject |
| >>Time Slot Configuration LCR | | 07 | | Applicable to 1.28Mcps TDD for MBSFN. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | GLOBAL | reject |

| >>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
|------------------------|----------|----------|-----------|---------------------|-----|---------------------------------------|
| >>>Time Slot Parameter | M | | Cell | | _ | |
| ID | 1 | | Parameter | | | |
| | | | ID | | | |
| | | | 9.2.3.4 | | | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to | YES | reject |
| 77071111 011 | | | 0.2.1.00 | Nt (TS 25.105 | | , |
| | | | | [15]). This IE | | |
| | | | | indicates the | | |
| | | | | frequency of | | |
| | | | | the Secondary | | |
| | | | | Frequency on | | |
| | | | | which SCCPCH | | |
| | | | | is configured. | | |
| | | | | Applicable to | | |
| | | | | 1.28Mcps TDD | | |
| | | | | MBSFN. Not | | |
| | | | | Applicable to | | |
| | | | | | | |
| | | | | 3.84Mcps TDD | | |
| | | | | or 7.68Mcps TDD. | | |
| >PRACH | | + | | וטט. | | |
| >>CHOICE HCR or LCR | М | | | See note 1 | _ | |
| or 7.68 Mcps | | | | below | | |
| >>>3.84Mcps TDD | | | | | - | |
| >>>PRACH | | 1 | | | YES | reject |
| >>>>Common | М | | 9.2.1.13 | | _ | - |
| Physical Channel ID | | <u> </u> | | | | |
| >>>>TFCS | М | | 9.2.1.58 | | ı | |
| >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>>TDD | М | | 9.2.3.19 | | _ | · · · · · · · · · · · · · · · · · · · |
| Channelisation Code | | | | | | |
| >>>>Max PRACH | M | | 9.2.3.6 | | | |
| Midamble Shifts | | | | | | |
| >>>>PRACH | M | | 9.2.3.14 | | _ | |
| Midamble | | | | | | |
| >>>>RACH | | 1 | | | YES | reject |
| >>>>Common | M | | 9.2.1.14 | | - | |
| Transport Channel | | | | | | |
| ID | | | | | | |
| >>>>Transport | M | | 9.2.1.59 | For the UL | _ | |
| Format Set | | | | | \ | |
| >>>>Binding ID | 0 | | 9.2.1.4 | Shall be | YES | ignore |
| | | | | ignored if | | |
| | | | | bearer | | |
| | | | | establishment | | |
| _ | | - | | with ALCAP. | | |
| >>>>Transport | 0 | | 9.2.1.63 | Shall be | YES | ignore |
| Layer Address | | | | ignored if | | |
| | | | | bearer | | |
| | | | | establishment | | |
| | | | | with ALCAP. | \ | |
| >>>>TNL QoS | 0 | | 9.2.1.58A | Shall be | YES | ignore |
| | | | | ignored if | | |
| | | | | bearer | | |
| | | | | establishment | | |
| | | | | with ALCAP. | | |
| >>>1.28Mcps TDD | <u> </u> | | | | _ | |

| >>>PRACH LCR | | 1 <maxno< th=""><th></th><th></th><th>GLOBAL</th><th>reject</th></maxno<> | | | GLOBAL | reject |
|--|---|---|-----------|---|--------|--------|
| >>>F NACH LON | | ofPRACHL CRs> | | | GLOBAL | reject |
| >>>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>>>TFCS | M | | 9.2.1.58 | | _ | |
| >>>>Time Slot | M | | 9.2.3.24A | | _ | |
| LCR | | | | | | |
| >>>>TDD Channelisation Code LCR | M | | 9.2.3.19a | | _ | |
| >>>>Midamble Shift LCR | М | | 9.2.3.7A | | _ | |
| >>>>RACH | | 1 | | | YES | reject |
| >>>>Common Transport Channel ID | М | | 9.2.1.14 | | _ | • |
| >>>>Transport Format Set | М | | 9.2.1.59 | For the UL | _ | |
| >>>>Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>>>Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). This IE indicates the frequency of the secondary frequency on which PRACH to be set up. See note 3 below. | YES | reject |
| >>>7.68 Mcps TDD | | | | | _ | |
| >>>PRACH | | 1 | | | YES | reject |
| >>>>Common Physical Channel ID 768Mcps | М | | 9.2.3.33 | | _ | |
| >>>>TFCS | M | | 9.2.1.58 | | _ | |
| >>>>Time Slot | М | | 9.2.3.23 | | | |
| >>>>TDD Channelisation Code 7.68Mcps | М | | 9.2.3.34 | | _ | |
| >>>>Max PRACH Midamble Shifts | М | | 9.2.3.6 | | _ | |

| >>>>PRACH | М | | 9.2.3.14 | | _ | |
|---|---|----|----------------------|---|-----|--------|
| Midamble | | | | | | |
| >>>>RACH | | 1 | | | YES | reject |
| >>>>Common Transport Channel ID | M | | 9.2.1.14 | | - | |
| >>>>Transport Format Set | М | | 9.2.1.59 | For the UL | - | |
| >>>>Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>>>Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >>FPACH | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >>>TDD Channelisation Code LCR | М | | 9.2.3.19a | | - | |
| >>>Time Slot LCR | М | | 9.2.3.24A | | - | |
| >>>Midamble Shift LCR | М | | 9.2.3.7A | | _ | |
| >>>Max FPACH Power | M | | 9.2.3.5E | | | |
| >>>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). This IE indicates the frequency of Secondary Frequency on which FPACH to be set up. | YES | reject |
| >PLCCH | | | | 1.28 Mcps TDD only | YES | ignore |
| >>Max PLCCH Power | М | | DL Power 9.2.1.21 | | _ | |
| >>Common Physical Channel ID | M | | 9.2.1.13 | | _ | |
| >>TDD Channelisation Code >>Time Slot LCR | M | | 9.2.3.19 | | _ | |
| >> Time Slot LCR >>Midamble Shift LCR | M | | 9.2.3.24A | | _ | |
| >E-RUCCH | M | | 9.2.3.7A | 3.84Mcps TDD only | YES | ignore |
| >>Common Physical Channel ID | М | | 9.2.1.13 | Offiny | _ | |

| >>Time Slot | M | 9.2.3.23 | | _ | |
|--|---|----------|-------------------|-----|--------|
| >>TDD Channelisation Code | М | 9.2.3.19 | | - | |
| >>Max E-RUCCH Midamble Shifts | М | 9.2.3.44 | | _ | |
| >>E-RUCCH Midamble | M | 9.2.3.14 | | _ | |
| >E-RUCCH 7.68Mcps | | | 7.68Mcps TDD only | YES | ignore |
| >>Common Physical Channel ID 7.68Mcps | М | 9.2.3.33 | | _ | |
| >>Time Slot | M | 9.2.3.23 | | _ | |
| >>TDD Channelisation Code 7.68Mcps | М | 9.2.3.34 | | _ | |
| >>Max E-RUCCH Midamble Shifts | М | 9.2.3.44 | | _ | |
| >>E-RUCCH Midamble | М | 9.2.3.14 | | _ | |

NOTE 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of a ProtocollE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

NOTE 2: This information element is a simplified representation of the ASN.1. Repetitions 1 to 8 and repetitions 9 to

maxnoofSCCPCHs / maxnoofSCCPCHsLCR are represented by separate ASN.1 structures.

NOTE 3: The configured PRACH resources on secondary frequency shall only be used for E-DCH random access.

| Range Bound | Explanation |
|-------------------|---|
| maxnoofSCCPCHs | Maximum number of Secondary CCPCHs per CCTrCH for 3.84Mcps TDD |
| maxnoofSCCPCHsLCR | Maximum number of Secondary CCPCHs per CCTrCH for 1.28Mcps TDD |
| maxnoofSCCPCHs768 | Maximum number of Secondary CCPCHs per CCTrCH for 7.68 Mcps TDD |
| maxnoofFACHs | Maximum number of FACHs that can be defined on a Secondary CCPCH |
| maxnoofPRACHLCRs | Maximum number of PRACHs LCR that can be defined on a RACH for 1.28Mcps TDD |

9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|------------------------------------|--|--|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| FACH Parameters Info | | 0 <maxno ofFACHs></maxno | | The FACH Parameters may be combined with PCH Parameters | GLOBAL | ignore |
| >FACH Parameters | М | | Common Transport Channel Information Response 9.2.1.14A | | - | |
| PCH Parameters | 0 | | Common Transport Channel Information Response 9.2.1.14A | The PCH Parameters may be combined with FACH Parameters | YES | ignore |
| RACH Parameters | 0 | | Common Transport Channel Information Response 9.2.1.14A | The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

| Range Bound | Explanation |
|--------------|--|
| maxnoofFACHs | Maximum number of FACHs that can be defined on a Secondary |
| | CCPCH[FDD] / a group of Secondary CCPCHs [TDD] |

9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | _ |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | _ |
| Cause | М | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

9.1.6.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | М | | 9.2.1.16 | | YES | reject |
| CHOICE Common Physical Channel To Be Configured | M | | | | YES | reject |
| >Secondary CCPCH | | | | | | |
| >>FACH Parameters | | 0 <maxfa CHCell></maxfa | | | GLOBAL | reject |
| >>>Common Transport Channel ID | М | | 9.2.1.14 | | _ | |
| >>>Max FACH Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on the FACH. | _ | |
| >>>ToAWS | 0 | | 9.2.1.61 | | _ | |
| >>>ToAWE | 0 | | 9.2.1.60 | | _ | |
| >>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer reconfiguration with ALCAP. | YES | ignore |
| >>PCH Parameters | | 01 | | | YES | reject |
| >>>Common Transport Channel ID | М | | 9.2.1.14 | | _ | • |
| >>>PCH Power | 0 | | DL Power 9.2.1.21 | Power to be used on the PCH. | - | |
| >>>ToAWS | 0 | | 9.2.1.61 | | _ | |
| >>>ToAWE | 0 | | 9.2.1.60 | | _ | |
| >>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer reconfiguration with ALCAP. | YES | ignore |
| >>PICH Parameters | | 01 | | | YES | reject |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>>PICH Power | 0 | | 9.2.1.49A | | _ | |
| >>MICH Parameters | | 01 | | | YES | reject |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | , |
| >>>MICH Power | 0 | | PICH Power 9.2.1.49A | | - | |
| >PRACH | | | | | | |
| >>PRACH Parameters | | 0 <maxp RACHCell ></maxp | | | GLOBAL | reject |

| >>>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
|------------------------------------|---|---|-----------|--|--------|--------|
| >>>Preamble Signatures | 0 | | 9.2.2.31 | | - | |
| >>>Allowed Slot Format Information | | 0 <maxno ofSlotForm atsPRACH ></maxno | | | _ | |
| >>>>RACH Slot Format | М | | 9.2.2.37 | | - | |
| >>>RACH Sub Channel Numbers | 0 | | 9.2.2.38 | | _ | |
| >>>TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer reconfiguration with ALCAP. | YES | ignore |
| >>AICH Parameters | | 0 <maxp RACHCell</maxp | | | GLOBAL | reject |
| >>>Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >>>AICH Power | 0 | | 9.2.2.D | | _ | |
| >Not Used | | | NULL | This choice shall not be used. Reject procedure if received. | | |

| Range Bound | Explanation |
|-------------------------|--|
| maxFACHCell | Maximum number of FACHs that can be defined in a Cell |
| maxPRACHCell | Maximum number of PRACHs and AICHs that can be defined in a Cell |
| maxnoofSlotFormatsPRACH | Maximum number of SF for a PRACH |

9.1.6.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigne d Criticalit y |
|-----------------------------|----------|-------|-----------------------------|--------------------------|-------------|---------------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | М | | 9.2.1.16 | | YES | reject |
| Secondary CCPCH Parameters | | 01 | | | YES | reject |

| - CCTrCU ID | 1 | 1 | 0000 | T | T | |
|-----------------------|-----|---|----------------------|-----------------------------|----------|--------|
| >CCTrCH ID | M | | 9.2.3.3 | For DL | _ | |
| | | | | CCTrCH | | |
| | | | | supporting one | | |
| | | | | or several | | |
| | | | | Secondary | | |
| >Secondary CCPCHs To | | 0 | | CCPCHs See note 1 | OL ODAL | • • |
| Be Configured | | 0 <maxno ofSCCPC</maxno | | below | GLOBAL | reject |
| _ | | | | | | |
| >>Common Physical | N.4 | Hs> | 0.04.40 | | | |
| Channel ID | M | | 9.2.1.13 | | _ | |
| >>SCCPCH Power | 0 | | DL power | | _ | |
| | | | 9.2.1.21 | | | |
| PICH Parameters | | 01 | | | YES | reject |
| >Common Physical | М | | 9.2.1.13 | | _ | |
| Channel ID | | | | | | |
| >PICH Power | 0 | | 9.2.1.49A | | _ | |
| FACH Parameters | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| | | ofFACHs> | | | | |
| >Common Transport | M | | 9.2.1.14 | | _ | |
| Channel ID >ToAWS | 0 | 1 | 9.2.1.61 | | _ | |
| >ToAWE | 0 | | 9.2.1.60 | | _ | |
| >Max FACH Power | 0 | 1 | 9.2.1.60 DL Power | Applicable to | YES | rojost |
| - Max 1 / Of 1 1 OWE! | | | 9.2.1.21 | 1.28Mcps TDD | TES | reject |
| | | | 9.2.1.21 | only | | |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be | YES | ignore |
| | | | | ignored if | | |
| | | | | bearer reconfiguration | | |
| | | | | with ALCAP. | | |
| PCH Parameters | | 01 | | | YES | reject |
| >Common Transport | М | | 9.2.1.14 | | _ | |
| Channel ID | | | | | | |
| >ToAWS | 0 | | 9.2.1.61 | | _ | |
| >ToAWE | 0 | | 9.2.1.60 | A 11 11 6 | _ | |
| >PCH Power | 0 | | DL Power | Applicable to 1.28Mcps TDD | YES | reject |
| | | | 9.2.1.21 | only | | |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be | YES | ignore |
| | | | 0.2 | ignored if | 5 | .9 |
| | | | | bearer | | |
| | | | | reconfiguration with ALCAP. | | |
| FPACH Parameters | | 01 | | Mandatory for | YES | reject |
| | | 01 | | 1.28Mcps TDD. | ILS | тејест |
| | | | | Not Applicable | | |
| | | | | to 3.84Mcps | | |
| | | | | TDD or | | |
| | | | | 7.68Mcps TDD | | |
| >Common Physical | М | 1 | 9.2.1.13 | 100 | _ | |
| Channel ID | 141 | | 0.2.1.10 | | | |
| >Max FPACH Power | 0 | | 9.2.3.5E | | - | - |
| MICH Parameters | | 01 | | | YES | reject |
| >Common Physical | M | | 9.2.1.13 | | | |
| Channel ID | | | | | | |
| >MICH Power | 0 | | PICH | | _ | |
| | | | Power | | | |
| | | 1 | 9.2.1.49A | | | |
| PLCCH Parameters | | 01 | | Applicable to | YES | ignore |
| | | | | 1.28Mcps TDD | | |
| | 1 | 1 | L | only | <u> </u> | |

| >Max PLCCH Power | 0 | | DL Power 9.2.1.21 | | - | |
|--|---|--|----------------------------|---|-----|--------|
| Secondary CCPCH Parameters 7.68Mcps | | 01 | 0.2.1.21 | Applicable to 7.68 Mcps TDD only | YES | reject |
| >CCTrCH ID | M | | 9.2.3.3 | For DL CCTrCH supporting one or several Secondary CCPCHs | - | |
| >Secondary CCPCHs To Be Configured | | 0 <maxno ofSCCPC Hs768></maxno | | | - | |
| >>Common Physical Channel ID 7.68Mcps | М | | 9.2.3.33 | | _ | |
| >>SCCPCH Power | 0 | | DL power 9.2.1.21 | | _ | |
| PICH Parameters 7.68Mcps | | 01 | | Applicable to 7.68 Mcps TDD only | YES | reject |
| >Common Physical Channel ID 7.68Mcps | М | | 9.2.3.33 | | _ | |
| >PICH Power | 0 | | 9.2.1.49A | | _ | |
| MICH Parameters 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | reject |
| >Common Physical Channel ID 7.68Mcps | М | | 9.2.3.33 | | - | |
| >MICH Power | 0 | | PICH Power 9.2.1.49A | | - | |
| UpPCH Parameters | | 01 | | Applicable to 1.28Mcps TDD only | YES | reject |
| >UpPCH Position LCR | 0 | | 9.2.3.4Q | This position of UpPCH. For a multi-frequency cell, if this IE is not included in this message, UpP CH in secondary frequency indicated by "UARFCN" shall be deleted. | - | |
| >UARFCN | 0 | | 9.2.1.65 | Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (TS 25.105 [15]). | | |

NOTE 1: This information element is a simplified representation of the ASN.1. Repetitions 1 to 8 and repetitions 9 to maxnoofSCCPCHs are represented by separate ASN.1 structures. Furthermore, maxnoofSCCPCHs has different values in the ASN.1 for each of the two TDD options.

| Range Bound | Explanation |
|-------------------|---|
| maxnoofSCCPCHs | Maximum number of SCCPCHs that can be repeated in a Cell |
| maxnoofFACHs | Maximum number of FACHs that can be repeated in a Cell |
| maxnoofSCCPCHs768 | Maximum number of SCCPCHs that can be repeated in a Cell at |
| | 7.68Mcps |

9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.8 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.9 COMMON TRANSPORT CHANNEL DELETION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| Common Physical Channel ID | M | | 9.2.1.13 | Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted. | YES | reject |
| Configuration Generation ID | М | | 9.2.1.16 | | YES | reject |
| Common Physical Channel ID 7.68Mcps | 0 | | 9.2.3.33 | Included at 7.68 Mcps when the physical channel ID exceeds the range of " Common Physical Channel ID" | YES | reject |

9.1.10 COMMON TRANSPORT CHANNEL DELETION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.11 BLOCK RESOURCE REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------|-----------------------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| Blocking Priority Indicator | M | | 9.2.1.5 | | YES | reject |
| Shutdown Timer | C- BlockNorm al | | 9.2.1.56 | | YES | reject |

| Condition | Explanation |
|-------------|---|
| BlockNormal | The IE shall be present if the Blocking Priority Indicator IE indicates |
| | "Normal Priority". |

9.1.12 BLOCK RESOURCE RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.13 BLOCK RESOURCE FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.14 UNBLOCK RESOURCE INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | ignore |

9.1.15 AUDIT REQUIRED INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | _ | |

9.1.16 AUDIT REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Start Of Audit Sequence Indicator | М | | 9.2.1.56B | | YES | reject |

9.1.17 AUDIT RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|--|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| End Of Audit Sequence | M | | 9.2.1.29A | | YES | ignore |
| Indicator Cell Information | 1 | 0 <maxce< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxce<> | | | EACH | ignore |
| | | llinNode B> | | | LAOIT | ignore |
| >C-ID | М | | 9.2.1.9 | | _ | |
| >Configuration Generation ID | М | | 9.2.1.16 | | _ | |
| >Resource Operational State | М | | 9.2.1.52 | | - | |
| >Availability Status | M | | 9.2.1.2 | | _ | |
| >Local Cell ID | M | | 9.2.1.38 | The local cell that the cell is configured on | _ | |
| >Primary SCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | Applicable to FDD only | YES | ignore |
| >Secondary SCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | Applicable to FDD only | YES | ignore |
| >Primary CPICH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | Applicable to FDD only | YES | ignore |
| >Secondary CPICH Information | | 0 <maxs CPICHCell</maxs | 5.2 | Applicable to FDD only | EACH | ignore |
| >>Secondary CPICH Individual Information | M | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >Primary CCPCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | | YES | ignore |
| >BCH Information | 0 | | Common Transport Channel Status Information 9.2.1.14B | | YES | ignore |

| >Secondary CCPCH | 1 | | <u> </u> | See note 1 | | Ι. |
|------------------------|-----|--|-------------|-----------------|-------|--------|
| Information | | 0 <maxs< td=""><td></td><td>below</td><td>EACH</td><td>ignore</td></maxs<> | | below | EACH | ignore |
| Information | | CCPCHCe | | Delow | | |
| | | ll> | | | | |
| >>Secondary CCPCH | M | | Common | | _ | |
| Individual Information | | | Physical | | | |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.13A | | | |
| >PCH Information | 0 | | Common | | YES | : |
| | 0 | | Transport | | YES | ignore |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.14B | | | |
| >PICH Information | 0 | | Common | | YES | ignore |
| | | | Physical | | | July |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.13A | | | |
| >FACH Information | | 0 <maxfa< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxfa<> | | | EACH | ignore |
| | | CHCell> | | | | |
| >>FACH Individual | М | | Common | | _ |] |
| Information | | | Transport | | | |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | | | | |
| >PRACH Information | | 0 0 | 9.2.1.14B | | | |
| >FRACH IIIIOIIIIatioii | | 0 <maxp< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxp<> | | | EACH | ignore |
| | | RACHCell | | | | |
| | | > | | | | |
| >>PRACH Individual | M | | Common | | _ | |
| Information | | | Physical | | | |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.13A | | | |
| >RACH Information | | 0 <maxr< td=""><td>0.2.1110/1</td><td></td><td>EACH</td><td>ignore</td></maxr<> | 0.2.1110/1 | | EACH | ignore |
| | | ACHCell> | | | LAOIT | ignore |
| >>RACH Individual | M | AOLIOGII> | Common | | | 1 |
| Information | IVI | | | | _ | 1 |
| i iioiiiiatioii | | | Transport | | | 1 |
| | | | Channel | | | 1 |
| | | | Status | | | |
| | | | Information | | | 1 |
| | | | 9.2.1.14B | | | |
| >AICH Information | | 0 <maxp< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxp<> | | Applicable to | EACH | ignore |
| | | RACHCell | | FDD only | | 1 |
| | | > | | , | | 1 |
| >>AICH Individual | М | | Common | | _ | |
| Information | 1 | | Physical | | | |
| | | | Channel | | | 1 |
| | | | | | | 1 |
| | | | Status | | | |
| | | | Information | | | 1 |
| N. d.I. d.d. | | | 9.2.1.13A | - | | ļ |
| >Not Used 1 | 0 | | NULL | This item shall | _ | 1 |
| | | | | not be used. | | |
| | | | | Ignore if | | 1 |
| | | | | received. | | 1 |
| >Not Used 2 | 0 | | NULL | This item shall | _ | |
| - · - · | | 1 | , 110 L L | THIS ROTH SHAIF | | 1 |

| | 1 | 1 | 1 | 1 | | 1 |
|---------------------------------|---|--|-------------|----------------------|------|----------|
| | | | | not be used. | | |
| | | | | Ignore if | | |
| | | | | received. | | |
| >Not Used 3 | 0 | | NULL | This item shall | _ | |
| | | | | not be used. | | |
| | | | | Ignore if | | |
| | | | | received. | | |
| >Not Used 4 | 0 | | NULL | This item shall | _ | |
| | | | | not be used. | | |
| | | | | Ignore if | | |
| | | | | received. | | |
| >SCH Information | 0 | | Common | TDD Sync | YES | ignore |
| | | | Physical | Channel | 120 | ignore |
| | | | Channel | Applicable to | | |
| | | | Status | | | |
| | | | | 3.84Mcps | | |
| | | | Information | TDD only | | |
| FRACII Information | | | 9.2.1.13A | | | _ |
| >FPACH Information | | 0 <maxfp< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxfp<> | | Applicable to | EACH | ignore |
| | | ACHCell> | | 1.28Mcps | | 1 |
| | | | | TDD only | | |
| >>FPACH Individual | M | | Common | | _ | 1 |
| Information | | | Physical | | | 1 |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.13A | | | |
| >DwPCH Information | 0 | | Common | Applicable to | YES | ignore |
| | | | Physical | 1.28Mcps | 120 | ignore |
| | | | Channel | TDD only | | |
| | | | Status | 1 DD Only | | |
| | | | | | | |
| | | | Information | | | |
| >HS-DSCH Resources | | · | 9.2.1.13A | 0 | EACH | ianoro |
| Information | | 0 <maxfr< td=""><td></td><td>See note 2</td><td>EACH</td><td>ignore</td></maxfr<> | | See note 2 | EACH | ignore |
| oauo | | equencyin | | below | | |
| D | 1 | Cell> | | | | |
| >>Resource Operational State | M | | 9.2.1.52 | | _ | |
| >>Availability Status | М | | 9.2.1.2 | | _ | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds | YES | ignore |
| | | | | to Nt (TS | | |
| | | | | 25.105 [15]). | | |
| | | | | Applicable to | | |
| | | | | 1.28Mcps TDD when | | |
| | | | | using multiple | | |
| | | | | frequencies. | | 1 |
| >MICH Information | 0 | | Common | | YES | ignore |
| | 1 | | Physical | | 123 | ignore |
| | | | Channel | | | 1 |
| | | | Status | | | 1 |
| | | | Information | | | |
| | 1 | | 9.2.1.13A | | | ļ |
| >E-DCH Resources | | 0 <maxfr< td=""><td></td><td>See note 2</td><td>EACH</td><td>ignore</td></maxfr<> | | See note 2 | EACH | ignore |
| Information | | equencyin | | below | | 1 |
| | | Cell> | | | | |
| >>Resource Operational | M | | 9.2.1.52 | | _ | 1 |
| State | | | | | | . |
| >>Availability Status | M | | 9.2.1.2 | | _ | ļ |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds | YES | ignore |
| | | | | to Nt (TS | | |
| | | | | 25.105 [15]). | | 1 |
| | | | | | | |

| | | | | Applicable to 1.28Mcps TDD when using multiple frequencies. | | |
|--|---|--|---|---|------|--------|
| >PLCCH Information | | 0 <maxpl CCHCell></maxpl | | Applicable to 1.28Mcps TDD only | EACH | ignore |
| >>PLCCH Individual Information | M | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >Primary CCPCH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | | YES | ignore |
| >Secondary CCPCH Information 7.68Mcps | | 0 <maxs CCPCHCe II768></maxs | | | EACH | ignore |
| >>Secondary CCPCH Individual Information 7.68 Mcps | M | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | | - | |
| >PICH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | | YES | ignore |
| >PRACH Information 7.68Mcps | | 0 <maxp RACHCell</maxp | 0.2.0.00 | | EACH | ignore |
| >>PRACH Individual Information 7.68Mcps | М | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | | - | |
| >SCH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | TDD Sync Channel Applicable to 7.68Mcps TDD only | YES | ignore |
| >MICH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | | YES | ignore |
| >E-RUCCH Information | | 0 <maxe- RUCCHCe</maxe- | | 3.84Mcps TDD only | EACH | ignore |

| | | <i>II></i> | | | | |
|--|---|---|---|--|-----------|--------|
| >>E-RUCCH Individual Information | М | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >E-RUCCH Information 7.68Mcps | | 0 <maxe- RUCCHCe II></maxe- | | 7.68Mcps TDD only | EACH | ignore |
| >>E-RUCCH Individual Information 7.68Mcps | M | | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 | | - | |
| >UARFCN Information LCR | | 0 <maxfr equencyin Cell></maxfr | | Applicable to 1.28Mcps TDD when using multiple frequencies. | EACH | ignore |
| >>UARFCN | M | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). | - | |
| >>Resource Operational State | M | | 9.2.1.52 | | _ | |
| >>Availability Status | М | | 9.2.1.2 | | - | |
| >UpPCH Information LCR | | 0 <maxfr equencyin Cell></maxfr | | Applicable to 1.28Mcps TDD only. | EACH | ignore |
| >>UARFCN | 0 | | 9.2.1.65 | Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (TS 25.105 [15]). | - | |
| >>UpPCH Position LCR | М | | 9.2.3.4Q | 20.100 [10]). | _ | |
| >>Resource Operational State | M | | 9.2.1.52 | | _ | |
| >>Availability Status | М | | 9.2.1.2 | | - | |
| Communication Control Port Information | | 0 <maxc CPinNode B></maxc | | | EACH | ignore |
| >Communication Control Port ID | М | | 9.2.1.15 | | _ | |
| >Resource Operational State | М | | 9.2.1.52 | | - | |
| >Availability Status Local Cell Information | M | 0 <maxlo calCellinN ode B></maxlo | 9.2.1.2 | | – EACH | ignore |
| >Local Cell ID | М | | 9.2.1.38 | | _ | |
| >DL Or Global Capacity Credit | М | | 9.2.1.20B | | _ | |

| >UL Capacity Credit | 0 | 9.2.1.65A | | | |
|---|--------------------------------------|-----------------------|---------------------------------|-----|--------|
| >OL Capacity Credit >Common Channels | M | 9.2.1.65A 9.2.1.9A | | _ | |
| Capacity Consumption Law | | | | _ | |
| >Dedicated Channels Capacity Consumption Law | М | 9.2.1.20A | | _ | |
| >Maximum DL Power Capability | 0 | 9.2.1.39 | | _ | |
| >Minimum Spreading Factor | 0 | 9.2.1.47 | | _ | |
| >Minimum DL Power Capability | 0 | 9.2.1.46A | | _ | |
| >Local Cell Group ID | 0 | 9.2.1.37A | | _ | |
| >Reference Clock Availability | 0 | 9.2.3.14A | TDD only | YES | ignore |
| >Power Local Cell Group ID | 0 | 9.2.1.49B | | YES | ignore |
| >HSDPA Capability | 0 | 9.2.1.31Ga | | YES | ignore |
| >E-DCH Capability | 0 | 9.2.1.70 | | YES | ignore |
| >E-DCH TTI2ms Capability | C- EDCHCap ability | 9.2.2.13V | FDD only | YES | ignore |
| >E-DCH SF Capability | C- EDCHCap ability | 9.2.2.13W | FDD only | YES | ignore |
| >E-DCH HARQ Combining Capability | C- EDCHCap ability | 9.2.2.13X | FDD only | YES | ignore |
| >E-DCH Capacity Consumption Law | 0 | 9.2.2.13Ja | FDD only | YES | ignore |
| >F-DPCH Capability | 0 | 9.2.2.16a | FDD only | YES | ignore |
| >E-DCH TDD Capacity Consumption Law | 0 | 9.2.3.60 | TDD only | YES | ignore |
| >Continuous Packet Connectivity DTX-DRX Capability | 0 | 9.2.2.64 | FDD only | YES | ignore |
| >Max UE DTX Cycle | C-DTX- DRXCapa bility | 9.2.2.95 | FDD only | YES | ignore |
| >Continuous Packet Connectivity HS-SCCH less Capability | 0 | 9.2.2.65 | FDD only | YES | ignore |
| >MIMO Capability | 0 | 9.2.1.118 | FDD and 1.28Mcps TDD only | YES | ignore |
| >SixtyfourQAM DL Capability | 0 | 9.2.1.110 | FDD and 1.28Mcps TDD only | YES | ignore |
| >MBMS Capability | 0 | 9.2.1.86 | | YES | ignore |
| >Enhanced FACH Capability | 0 | 9.2.1.114 | FDD and 1.28Mcps TDD only | YES | ignore |
| >Enhanced PCH Capability | C- Enhanced FACHCap ability | 9.2.1.115 | FDD and 1.28Mcps TDD only | YES | ignore |
| >SixteenQAM UL Capability | 0 | 9.2.2.88 | FDD only | YES | ignore |
| >HS-DSCH MAC-d PDU Size Capability | 0 | 9.2.1.31IC | | YES | ignore |
| >MBSFN Only Mode Capability | 0 | 9.2.3.71 | 1.28Mcps TDD only | YES | ignore |
| >F-DPCH Slot Format Capability | 0 | 9.2.2.94 | FDD only | YES | ignore |
| >E-DCH MAC-d PDU Size Capability | 0 | 9.2.1.74A | | YES | ignore |
| >Common E-DCH Capability | 0 | 9.2.2.101 | FDD only | YES | Ignore |
| >E-Al Capability | C- CommonE | 9.2.2.102 | FDD only | YES | Ignore |

| | DCHCapa | | | | | |
|--|------------------------------------|---|------------|--------------------------------------|------|--------|
| | bility | | | | | |
| >Enhanced UE DRX Capability | 0 | | 9.2.1.116 | FDD only | YES | ignore |
| >Enhanced UE DRX Capability LCR | 0 | | 9.2.1.116 | 1.28Mcps TDD only | YES | ignore |
| >E-DPCCH Power Boosting Capability | 0 | | 9.2.2.109 | | YES | ignore |
| >SixtyfourQAM DL and MIMO Combined Capability | 0 | | 9.2.1.121 | FDD and 1.28Mcps TDD only only | YES | ignore |
| >Multi Cell Capability Info | 0 | | 9.2.2.113 | FDD only | YES | ignore |
| >Semi-Persistent scheduling Capability LCR | 0 | | 9.2.3.91 | 1.28Mcps TDD only | YES | ignore |
| >Continuous Packet Connectivity DRX Capability LCR | 0 | | 9.2.3.92 | 1.28Mcps TDD only | YES | ignore |
| >Common E-DCH HS- DPCCH Capability | C- CommonE DCHCapa bility | | 9.2.2.116 | FDD only | YES | Ignore |
| >MIMO Power Offset For S- CPICH Capability | 0 | | 9.2.2.118 | FDD only | YES | ignore |
| >TX Diversity on DL Control Channels by MIMO UE Capability | 0 | | 9.2.2.121 | FDD only | YES | ignore |
| >Single Stream MIMO Capability | 0 | | 9.2.2.122 | FDD only | YES | Ignore |
| >Dual Band Capability Info | 0 | | 9.2.2.125 | FDD only | YES | ignore |
| >Cell Portion Capability LCR | 0 | | 9.2.3.106 | 1.28Mcps TDD only | YES | ignore |
| >Cell Capability Container | 0 | | 9.2.2.129 | FDD only | YES | ignore |
| >TS0 Capability LCR | 0 | | 9.2.3.109 | 1.28Mcps TDD only | YES | ignore |
| >Precoding Weight Set Restriction | 0 | | 9.2.2.143 | FDD only | YES | ignore |
| >Adaptive Special Burst Power Capability LCR | 0 | | 9.2.3.112 | 1.28Mcps TDD only | YES | ignore |
| Local Cell Group Information | | 0 <maxlo calCellinN ode B></maxlo | | | EACH | ignore |
| >Local Cell Group ID | M | | 9.2.1.37A | | ı | |
| >DL Or Global Capacity Credit | М | | 9.2.1.20B | | _ | |
| >UL Capacity Credit | 0 | | 9.2.1.65A | | ı | |
| >Common Channels Capacity Consumption Law | М | | 9.2.1.9A | | 1 | |
| >Dedicated Channels Capacity Consumption Law | М | | 9.2.1.20A | | ı | |
| >E-DCH Capacity Consumption Law | 0 | | 9.2.2.13Ja | FDD only | YES | ignore |
| >E-DCH TDD Capacity Consumption Law | 0 | | 9.2.3.60 | TDD only | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| Power Local Cell Group Information | | 0 <maxlo calCellinN ode B></maxlo | | | EACH | ignore |
| >Power Local Cell Group ID | М | | 9.2.1.49B | | - | |
| >Maximum DL Power Capability | М | | 9.2.1.39 | | - | |

NOTE 2: For 1.28Mcps TDD when using multiple frequencies, this information element for Repetition 1 and repetition 2 through maxFrequencyinCell are represented by respective ASN.1 structures with different criticalities.

| Condition | Explanation |
|------------------------|---|
| EDCHCapability | The IE shall be present if the E-DCH Capability IE is set to "E-DCH |
| | Capable". |
| EnhancedFACHCapability | The IE shall be present if the Enhanced FACH Capability IE is set to |
| | "Enhanced FACH Capable". |
| DTX-DRXCapability | The IE shall be present if the Continuous Packet Connectivity DTX-DRX |
| | Capability IE is present and set to "Continuous Packet Connectivity |
| | DTX-DRX Capable". |
| CommonEDCHCapability | The IE shall be present if the Common E-DCH Capability IE is set to |
| | "Common E-DCH Capable". |

| Range Bound | Explanation |
|----------------------|---|
| maxCellinNode B | Maximum number of Cells that can be configured in Node B |
| maxCCPinNode B | Maximum number of Communication Control Ports that can exist in the |
| | Node B |
| maxLocalCellinNode B | Maximum number of Local Cells that can exist in the Node B |
| maxSCPICHCell | Maximum number of Secondary CPICHs that can be defined in a Cell. |
| maxSCCPCHCell | Maximum number of Secondary CCPCHs that can be defined in a Cell. |
| maxSCCPCHCell768 | Maximum number of Secondary CCPCHs that can be defined in a Cell |
| | for 7.68 Mcps TDD. |
| maxFACHCell | Maximum number of FACHs that can be defined in a Cell |
| maxPRACHCell | Maximum number of PRACHs that can be defined in a Cell |
| maxRACHCell | Maximum number of RACHs that can be defined in a Cell |
| maxFPACHCell | Maximum number of FPACHs that can be defined in a Cell |
| maxPLCCHCell | Maximum number of PLCCHs that can be defined in a Cell |
| maxE-RUCCHCell | Maximum number of E-RUCCHs that can be defined in a Cell |
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

9.1.17A AUDIT FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message discriminator | M | | 9.2.1.45 | | - | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.18 COMMON MEASUREMENT INITIATION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Measurement ID | M | | 9.2.1.42 | | YES | reject |
| CHOICE Common | M | | | | YES | reject |
| Measurement Object Type | | | | | | |
| >Cell | | | | | | |
| >>C-ID | M | | 9.2.1.9 | | _ | |
| >>Time Slot | 0 | | 9.2.3.23 | Applicable to 3.84McpsTDD and 7.68Mcps TDD only | - | |
| >>Time Slot LCR | 0 | | 9.2.3.24A | Applicable to 1.28Mcps TDD only | YES | reject |
| >>Neighbouring Cell Measurement Information | | 0 <maxno MeasNCell s></maxno | | | GLOBAL | ignore |
| >>>CHOICE Neighbouring Cell Measurement Information | | | | | _ | |
| >>>Neighbouring FDD Cell Measurement Information | | | | FDD only | | |
| >>>>Neighbouring FDD Cell Measurement Information | М | | 9.2.1.47C | | - | |
| >>>Neighbouring TDD Cell Measurement Information | | | | Applicable to 3.84Mcps TDD only | | |
| >>>>Neighbouring TDD Cell Measurement Information | M | | 9.2.1.47D | | _ | |
| >>>Additional Neighbouring Cell Measurement Information | | | | See Note 1 | | |
| >>>>Neighbouring TDD Cell Measurement Information LCR | | | | Applicable to 1.28Mcps TDD only | | |
| >>>>>Neighbouri ng TDD Cell Measurement Information LCR | M | | 9.2.1.47E | | YES | reject |
| >>>>Neighbouring TDD Cell Measurement Information 768Mcps | | | | Applicable to 7.68 Mcps TDD only | | |
| >>>>Neighbouri ng TDD Cell Measurement Information 768Mcps | M | | 9.2.3.37 | | YES | reject |
| >>UARFCN | 0 | | 9.2.1.65 | Applicable for 1.28 Mcps TDD only | YES | reject |

| >>UpPCH Position LCR | 0 | | 9.2.3.4Q | Applicable to 1.28Mcps TDD only | YES | reject |
|--|---|---|---|--|--------|--------|
| >>Additional Time Slot LCR | | 0 <maxfr equencyin Cell – 1></maxfr | | Applicable to 1.28Mcps TDD only. If the IE present, the measurement type should also be applied to the time slot (s). | GLOBAL | ignore |
| >>>UARFCN | M | | 9.2.1.65 | | _ | |
| >>>Time Slot Initiated LCR | | 06 | | If the value is zero, the measurement type should be applied to all time slots in the UARFCN which satisfies the requirement of the measurement type | _ | |
| >>>>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >RACH | | | | FDD only | | |
| >>C-ID | M | | 9.2.1.9 | | _ | |
| >>Common Transport | M | | 9.2.1.14 | | _ | |
| Channel ID >Not Used | | | NULL | This choice shall not be used. Reject procedure if received. | | |
| >Additional Common | | | | See Note 1 | | |
| Measurement Object Types >>Power Local Cell Group | | | | | _ | |
| >>>Power Local Cell Group ID | М | | 9.2.1.49B | | YES | reject |
| >>E-DCH RACH | | | | FDD only | _ | |
| >>>C-ID | M | | 9.2.1.9 | | YES | reject |
| Common Measurement Type | M | | 9.2.1.11 | | YES | reject |
| Measurement Filter Coefficient | 0 | | 9.2.1.41 | | YES | reject |
| Report Characteristics | M | 1 | 9.2.1.51 | | YES | reject |
| SFN Reporting Indicator | M | | FN Reporting Indicator 9.2.1.29B | | YES | reject |
| SFN | 0 | | 9.2.1.53A | | YES | reject |
| Common Measurement Accuracy | 0 | | 9.2.1.9B | | YES | reject |
| Measurement Recovery Behavior | 0 | | 9.2.1.43A | | YES | ignore |
| RTWP* Reporting Indicator | 0 | | 9.2.1.53b | | YES | reject |
| RTWP* for Cell Portion Reporting Indicator | Ö | | 9.2.1.53c | | YES | reject |
| Reference Received Total Wide Band Power Reporting | 0 | | 9.2.2.39C | FDD only | YES | ignore |
| GANSS Time ID | 0 | | 9.2.1.104a | This IE may only be present if the Common Measurement Type IE is set | YES | ignore |

| to "UTRAN |
|------------------|
| GANSS Timing |
| of Cell Frames |
| for UE |
| Positioning". If |
| the Common |
| Measurement |
| Type IE is set |
| to "UTRAN |
| GANSS Timing |
| of Cell Frames |
| for UE |
| Positioning" |
| and this IE is |
| absent, the |
| GANSS time is |
| Galileo system |
| time. |

NOTE 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

| Range Bound | Explanation |
|------------------------|---|
| maxnoMeasNCells | Maximum number of neighbouring cells that can be measured on. |
| maxFrequencyinCell – 1 | Maximum number of frequencies that can be used in the cell minus 1. |

9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|--|----------|---|----------------|---|-------------|----------------------|
| | | | Reference | 2000 | | |
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | - | 10,000 |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| CHOICE Common Measurement Object Type | Ö | | | Common Measurement Object Type that the measurement was initiated | YES | ignore |
| >Cell | | | | with. | | |
| >>Common Measurement Value | M | | 9.2.1.12 | For 1.28Mcps TDD, if the IE Additional Measurement Value is present, this IE shall be ignored. | - | |
| >>Additional Measurement Value | | 0 <maxfr equencyin Cell></maxfr | | Applicable to 1.28Mcps TDD only. If more than one measurement value needs to be reported, this IE shall be used. | GLOBAL | ignore |
| >>>UARFCN | М | | 9.2.1.65 | dood. | _ | |
| >>>Time Slot Measurement Value LCR | | 16 | 3.2.1.00 | | _ | |
| >>>>Time Slot LCR | М | | 9.2.3.24A | The IE shall be ignored if the Measurement Type is frequency level. | _ | |
| >>>>Common Measurement Value | М | | 9.2.1.12 | | _ | |
| >RACH | | | | FDD only | | |
| >>Common Measurement Value | М | | 9.2.1.12 | | _ | |
| >Not Used | | | NULL | This choice shall not be used. | | |
| >Additional Common Measurement Object Types | | | | See Note 1 | | |
| >>Power Local Cell Group | | | | | _ | |
| >>>Common Measurement Value | М | | 9.2.1.12 | | YES | ignore |
| >>E-DCH RACH | . | | | FDD only | | |
| >>>Common Measurement Value | М | | 9.2.1.12 | | YES | ignore |
| SFN | 0 | | 9.2.1.53A | Common Measurement Time Reference | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| Common Measurement | 0 | | Common | | YES | ignore |
| Achieved Accuracy | | | Measureme | | | |

| | | nt Accuracy 9.2.1.9B | | | |
|--|---|-------------------------|----------|-----|--------|
| Measurement Recovery Support Indicator | 0 | 9.2.1.43C | | YES | ignore |
| Reference Received Total Wide Band Power Support Indicator | 0 | 9.2.2.39D | FDD only | YES | ignore |
| Reference Received Total Wide Band Power | 0 | 9.2.2.39B | FDD only | YES | ignore |

NOTE 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

| Range Bound | Explanation | | |
|--------------------|--|--|--|
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell. | | |

9.1.20 COMMON MEASUREMENT INITIATION FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.21 COMMON MEASUREMENT REPORT

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|---|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | igirere |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| CHOICE Common Measurement Object Type | M | | | Common Measurement Object Type that the measurement was initiated with. | YES | ignore |
| >Cell | | | | | | |
| >>Common Measurement Value Information | М | | 9.2.1.12A | For 1.28Mcps TDD, if the IE Additional Measurement Value is present, this IE shall be ignored. | _ | |
| >>C-ID | 0 | | 9.2.1.9 | | YES | ignore |
| >>Additional Measurement Value Information | | 0 <maxfr equencyin Cell></maxfr | | Applicable to 1.28Mcps TDD only. If more than one measurement value needs to be reported, this IE shall be used. | GLOBAL | ignore |
| >>>UARFCN | | | 9.2.1.65 | uoou. | | |
| >>>Time Slot Measurement Value LCR | | 16 | 3.2.1.03 | | | |
| >>>>Time Slot LCR | M | | 9.2.3.24A | The IE shall be ignored if the Measurement Type is frequency level. | | |
| >>>Common Measurement Value Information | M | | 9.2.1.12A | | | |
| >RACH | | | | FDD only | | |
| >>Common Measurement Value Information | M | | 9.2.1.12A | | _ | |
| >>C-ID | 0 | † | 9.2.1.9 | † | YES | ignore |
| >Not Used | | | NULL | This choice shall not be used. | 120 | ignore |
| >Additional Common | | | | See Note 1 | | |
| Measurement Object Types >>Power Local Cell | | | | | _ | |
| Group | | | 004:55 | | \/== | <u> </u> |
| >>>Common Measurement Value Information | M | | 9.2.1.12A | | YES | ignore |
| >>E-DCH RACH | | | | FDD only | | |
| >>>Common Measurement Value Information | M | | 9.2.1.12A | | YES | ignore |
| SFN | 0 | | 9.2.1.53A | Common | YES | ignore |

| | | | Measurement Time Reference | | |
|---|---|-----------|-------------------------------|-----|--------|
| Measurement Recovery Reporting Indicator | 0 | 9.2.1.43B | | YES | ignore |
| Reference Received Total Wide Band Power | 0 | 9.2.2.39B | FDD only | YES | ignore |

NOTE 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocollE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

| Range Bound | Explanation |
|--------------------|--|
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell. |

9.1.22 COMMON MEASUREMENT TERMINATION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |

9.1.23 COMMON MEASUREMENT FAILURE INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | - | |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| Cause | M | | 9.2.1.6 | | YES | ignore |

9.1.24 CELL SETUP REQUEST

9.1.24.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------|----------|-------|----------------|--|-------------|----------------------|
| | | | Reference | | | |
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Local Cell ID | M | | 9.2.1.38 | | YES | reject |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | M | | 9.2.1.16 | | YES | reject |
| T Cell | M | | 9.2.2.49 | | YES | reject |
| UARFCN | M | | 9.2.1.65 | Corresponds to Nu (TS 25.104 [14]) | YES | reject |
| UARFCN | M | | 9.2.1.65 | Corresponds to Nd (TS 25.104 [14]) | YES | reject |

| Maximum Transmission Power | М | | 9.2.1.40 | | YES | reject |
|--|-----|---|------------------------------------|---|---|---------|
| Closed Loop Timing Adjustment Mode | 0 | | 9.2.2.2A | | YES | reject |
| Primary Scrambling Code | М | | 9.2.2.34 | | YES | reject |
| Synchronisation | IVI | 1 | 3.2.2.04 | | YES | reject |
| Configuration | | , | | | 120 | reject |
| >N_INSYNC_IND | М | | 9.2.1.47A | | _ | |
| >N_OUTSYNC_IND | M | | 9.2.1.47B | | _ | |
| >T_RLFAILURE | M | | 9.2.1.56A | | | |
| DL TPC Pattern 01 Count | M | | 9.2.2.13A | | YES | reject |
| Primary SCH Information | IVI | 1 | 3.2.2.13A | | YES | reject |
| >Common Physical | М | , | 9.2.1.13 | | - | reject |
| Channel ID | | | | | | |
| >Primary SCH Power | M | | DL Power 9.2.1.21 | | _ | |
| >TSTD Indicator | M | | 9.2.1.64 | | _ | |
| Secondary SCH Information | | 1 | | | YES | reject |
| >Common Physical Channel ID | M | | 9.2.1.13 | | _ | |
| >Secondary SCH Power | М | | DL Power | | _ | |
| | | | 9.2.1.21 | | | |
| >TSTD Indicator | М | | 9.2.1.64 | | _ | |
| Primary CPICH Information | | 1 | | | YES | reject |
| >Common Physical | М | | 9.2.1.13 | | _ | - , |
| Channel ID | | | | | | |
| >Primary CPICH power | М | | 9.2.2.33 | | _ | |
| >Transmit Diversity | M | | 9.2.2.53 | | _ | |
| Indicator | | | 0.2.2.00 | | | |
| Secondary CPICH | | 0 <maxs< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxs<> | | | EACH | reject |
| Information | | CPICHCell > | | | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | . 0,001 |
| >Common Physical | М | | 9.2.1.13 | | _ | |
| Channel ID >DL Scrambling Code | M | | 9.2.2.13 | | | |
| >DL Scrambling Code >FDD DL Channelisation | M | | | | <u>-</u> | |
| Code Number | IVI | | 9.2.2.14 | | _ | |
| >Secondary CPICH Power | М | | DL Power | | _ | |
| 2 Coolingary of Terri ener | ''' | | 9.2.1.21 | | | |
| >Transmit Diversity | М | | 9.2.2.53 | | _ | |
| Indicator | | | 0.2.2.00 | | | |
| Primary CCPCH Information | | 1 | | | YES | reject |
| >Common Physical | М | | 9.2.1.13 | | _ | |
| Channel ID | | | | | | |
| >BCH Information | | 1 | | | _ | |
| >>Common Transport | М | | 9.2.1.14 | | _ | |
| Channel ID | | | | | | |
| >>BCH Power | М | | DL Power 9.2.1.21 | | - | |
| >STTD Indicator | М | | 9.2.2.48 | | _ | |
| Limited Power Increase Information | | 1 | <u> </u> | | YES | reject |
| >Power_Raise_Limit | M | | 9.2.2.29A | | | |
| >DL_power_averaging_win | M | | 9.2.2.29A 9.2.2.12A | | | |
| dow_size | IVI | | J.Z.Z.1ZA | | - - | |
| IPDL Parameter Information | | 01 | | | YES | reject |
| >IPDL FDD Parameters | М | | 9.2.2.18C | | - | . 5,550 |
| >IPDL Indicator | M | | 9.2.1.36F | | _ | |
| Cell Portion Information | | 0 <maxno ofCellPorti ons></maxno | 2.2.1.001 | | EACH | reject |
| >Cell Portion ID | M | 002 | 9.2.2.1Ca | | _ | |
| >Associated Secondary | M | | Common | | | |
| CPICH | IVI | | Physical Channel ID 9.2.1.13 | | _ - | |
| | 1 | 1 | J.Z. 1. 10 | 1 | | |

| >Maximum Transmission | M | Maximum | | _ | |
|--------------------------|---|-------------|----------------|-----|--------|
| Power for Cell Portion | | Transmissio | | | |
| | | n Power | | | |
| | | 9.2.1.40 | | | |
| MIMO Pilot Configuration | 0 | 9.2.2.73 | | YES | reject |
| MIMO Pilot Configuration | 0 | 9.2.2.120 | Can only be | YES | reject |
| Extension | | | present if the | | |
| | | | MIMO Pilot | | |
| | | | Configuration | | |
| | | | IE is present | | |

| Range Bound | Explanation |
|---------------------|---|
| maxSCPICHCell | Maximum number of Secondary CPICHs that can be defined in a Cell. |
| MaxNoofCellPortions | Maximum number of Cell Portions in a cell |

9.1.24.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--------------------------------|----------|-------|-------------------------------|---|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | , |
| Local Cell ID | М | | 9.2.1.38 | | YES | reject |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation Id | М | | 9.2.1.16 | | YES | reject |
| UARFCN | M | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency of Primary Frequency. | YES | reject |
| Cell Parameter ID | M | | 9.2.3.4 | For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE indicates the preamble code used in the MBSFN Special Time Slot (TS 25.221 [19]). | YES | reject |
| Maximum Transmission Power | М | | 9.2.1.40 | | YES | reject |
| Transmission Diversity Applied | М | | 9.2.3.26 | | YES | reject |
| Sync Case | M | | 9.2.3.18 | | YES | reject |
| Synchronisation | | 1 | | | YES | reject |
| Configuration | | | | | | |
| >N_INSYNC_IND | M | | 9.2.1.47A | | _ | |
| >N_OUTSYNC_IND | M | | 9.2.1.47B | | _ | |
| >T_RLFAILURE | M | | 9.2.1.56A | | _ | |
| DPCH Constant Value | М | | Constant Value 9.2.3.4A | This IE shall be ignored by the Node B. | YES | reject |
| PUSCH Constant Value | M | | Constant Value 9.2.3.4A | This IE shall be ignored by the Node B. | YES | reject |
| PRACH Constant Value | M | | Constant Value 9.2.3.4A | This IE shall be ignored by the Node B. | YES | reject |
| Timing Advance Applied | М | | 9.2.3.22A | | YES | reject |
| SCH Information | | 01 | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >Common Physical | М | | 9.2.1.13 | | _ | |
| Channel ID | | | | | | |
| >CHOICE Sync Case | M | | | | YES | reject |
| >>Case 1 | | | | | | |
| >>>Time Slot | M | | 9.2.3.23 | | _ | |
| >>Case 2 | | | | | | |

| >>>SCH Time Slot | М | | 9.2.3.17 | | _ | |
|---------------------------------|---|-----|------------------------------------|--|--------|--------|
| >SCH Power | М | | DL Power | | _ | |
| | | | 9.2.1.21 | | | |
| >TSTD Indicator | М | | 9.2.1.64 | | _ | |
| PCCPCH Information | | 01 | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >TDD Physical Channel Offset | M | | 9.2.3.20 | | _ | |
| >Repetition Period | М | | 9.2.3.16 | | _ | |
| >Repetition Length | M | | 9.2.3.15 | | _ | |
| >PCCPCH Power | M | | 9.2.3.9 | | _ | |
| >SCTD Indicator | M | _ | 9.2.3.30 | | _ | |
| Time Slot Configuration | | 015 | | Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD. | GLOBAL | reject |
| >Time Slot | М | | 9.2.3.23 | | _ | |
| >Time Slot Status | M | | 9.2.3.25 | | _ | |
| >Time Slot Direction | M | | 9.2.3.24 | | _ | |
| >MBSFN Cell Parameter ID | 0 | | Cell Parameter ID 9.2.3.4 | | YES | reject |
| Time Slot Configuration LCR | | 07 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary Frequency. | GLOBAL | reject |
| >Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >Time Slot Status | M | | 9.2.3.25 | | _ | |
| >Time Slot Direction | М | | 9.2.3.24 | | _ | |
| >Time Slot Parameter ID | 0 | | Cell Parameter ID 9.2.3.4 | Applicable only to MBSFN only mode | YES | reject |

| PCCPCH Information LCR | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot (TS 25.221 [19]). | YES | reject |
|---------------------------------|---|----|-----------|---|-----|--------|
| >Common Physical Channel ID | M | | 9.2.1.13 | | _ | |
| >TDD Physical Channel Offset | М | | 9.2.3.20 | | - | |
| >Repetition Period | M | | 9.2.3.16 | | _ | |
| >Repetition Length | M | | 9.2.3.15 | | _ | |
| >PCCPCH Power | M | | 9.2.3.9 | | _ | |
| >SCTD Indicator | M | | 9.2.3.30 | | | |
| >TSTD Indicator | M | | 9.2.1.64 | | _ | |
| DwPCH Information | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >TSTD Indicator | M | | 9.2.1.64 | | _ | |
| >DwPCH Power | M | | 9.2.3.5B | | | |
| Reference SFN Offset | O | | 9.2.3.14B | | YES | ignore |
| IPDL Parameter Information | | 01 | | Applicable to 3.84 Mcps TDD and 7.68 Mcps TDD only | YES | reject |
| >IPDL TDD Parameters | M | | 9.2.3.5D | | _ | |
| >IPDL Indicator | M | | 9.2.1.36F | | _ | |
| IPDL Parameter Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | reject |
| >IPDL TDD Parameters LCR | М | | 9.2.3.5H | | _ | |
| >IPDL Indicator | М | | 9.2.1.36F | | _ | |

| PCCPCH Information 7.68 Mcps TDD | | 01 | | Mandatory for 7.68 Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps TDD. | YES | reject |
|--|---|--|----------------------|--|------|--------|
| >Common Physical Channel ID 7.68 Mcps | М | | 9.2.3.33 | | - | |
| >TDD Physical Channel Offset | М | | 9.2.3.20 | | - | |
| >Repetition Period | М | | 9.2.3.16 | | _ | |
| >Repetition Length | M | | 9.2.3.15 | | _ | |
| >PCCPCH Power | M | | 9.2.3.9 | | _ | |
| >SCTD Indicator | M | | 9.2.3.30 | | _ | |
| SCH Information 7.68Mcps TDD | | 01 | | Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84Mcps TDD. | YES | reject |
| >Common Physical Channel ID 7.68Mcps | М | | 9.2.3.33 | | - | |
| >CHOICE Sync Case | M | | | | YES | reject |
| >>Case 1 | | | | | | · |
| >>>Time Slot | M | 1 | 9.2.3.23 | | _ | |
| >>Case 2 | | | 0.0047 | | | |
| >>>SCH Time Slot | M | | 9.2.3.17 | | _ | |
| >SCH Power | М | | DL Power 9.2.1.21 | | _ | |
| >TSTD Indicator | M | | 9.2.1.64 | | _ | |
| MBSFN Only Mode Indicator | 0 | | 9.2.3.70 | Mandatory for 1.28Mcps TDD when the cell is operating in MBSFN only mode. Not applicable to FDD, 3.84Mcps TDD or 7.68Mcps TDD | YES | reject |
| UARFON Information LCR | | 0 <maxfreq uencyinCe II-1></maxfreq | | Mandatory for 1.28Mcps TDD when using multiple frequencies. It indicates the UARFCN and Time Slot configuration information of the Secondary Frequencies. There could be several secondary frequencies | EACH | reject |
| >UARFCN >Time Slot Configuration | M | 17 | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). This IE indicates the frequency of a Secondary Frequency. This IE | | |
| LCR | | 1/ | | indicates the | _ | |

| | | | Time Slot configuration of a Secondary Frequency. | | |
|--------------------------|---|----------|---|-----|--------|
| >>Time Slot LCR | M | 9.2.3.24 | Α | _ | |
| >>Time Slot Status | M | 9.2.3.25 | | _ | |
| >>Time Slot Direction | M | 9.2.3.24 | | _ | |
| >>Time Slot Parameter ID | 0 | Cell | | YES | reject |
| | | Paramet | er | | |
| | | ID | | | |
| | | 9.2.3.4 | | | |

| Range Bound | Explanation |
|--------------------|---|
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

9.1.25 CELL SETUP RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.26 CELL SETUP FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.27 CELL RECONFIGURATION REQUEST

9.1.27.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|---|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | , |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | M | | 9.2.1.16 | | YES | reject |
| Maximum Transmission Power | 0 | | 9.2.1.40 | | YES | reject |
| Synchronisation | | 01 | | | YES | reject |
| Configuration | | 01 | | | 120 | rojoot |
| >N INSYNC IND | М | | 9.2.1.47A | | _ | |
| >N_OUTSYNC_IND | М | | 9.2.1.47B | | _ | |
| >T_RLFAILURE | М | | 9.2.1.56A | | _ | |
| Primary SCH Information | | 01 | | | YES | reject |
| >Common Physical | M | | 9.2.1.13 | | _ | , |
| Channel ID | | | | | | |
| >Primary SCH Power | М | | DL Power 9.2.1.21 | | _ | |
| Secondary SCH Information | | 01 | | | YES | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | _ | , |
| >Secondary SCH Power | М | | DL Power 9.2.1.21 | | _ | |
| Primary CPICH Information | | 01 | 0.2.1.21 | | YES | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >Primary CPICH Power | М | | 9.2.2.33 | | _ | |
| Secondary CPICH Information | | 0 <maxs CPICHCell</maxs | 0.2.2.0 | | EACH | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >Secondary CPICH Power | М | | DL Power 9.2.1.21 | | - | |
| Primary CCPCH Information | | 01 | - | | YES | reject |
| >BCH Information | | 1 | | | _ | |
| >>Common Transport Channel ID | М | | 9.2.1.14 | | _ | |
| >>BCH Power | М | | DL Power 9.2.1.21 | | _ | |
| IPDL Parameter Information | | 01 | | | YES | reject |
| >IPDL FDD Parameters | 0 | | 9.2.2.18C | | _ | , |
| >IPDL Indicator | M | | 9.2.1.36F | | _ | |
| Cell Portion Information | | 0 <maxno ofCellPorti ons></maxno | | | EACH | reject |
| >Cell Portion ID | М | 51102 | 9.2.2.1Ca | | _ | |
| >Maximum Transmission Power for Cell Portion | M | | Maximum Transmissio n Power 9.2.1.40 | | _ | |
| MIMO Pilot Configuration | 0 | | 9.2.2.73 | | YES | reject |
| MIMO Pilot Configuration Extension | 0 | | 9.2.2.120 | | YES | reject |
| Dormant Mode Indicator | 0 | | 9.2.1.124 | | YES | reject |
| | | • | | | | |

| Range Bound | Explanation | | |
|---------------|--|--|--|
| maxSCPICHCell | Maximum number of Secondary CPICH that can be defined in a Cell. | | |

9.1.27.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--------------------------------|----------|-------|------------------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | M | | 9.2.1.16 | | YES | reject |
| Synchronisation Configuration | | 01 | 0.2.1110 | | YES | reject |
| >N_INSYNC_IND | М | | 9.2.1.47A | | _ | |
| >N_OUTSYNC_IND | M | | 9.2.1.47B | | _ | |
| >T_RLFAILURE | M | | 9.2.1.56A | | _ | |
| Timing Advance Applied | 0 | | 9.2.3.22A | | YES | reject |
| SCH Information | | 01 | 0.2.0.2 | Applicable to 3.84Mcps TDD only | YES | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | - | |
| >SCH Power | М | | DL Power 9.2.1.21 | | - | |
| PCCPCH Information | | 01 | | Not applicable to 7.68Mcps TDD only. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot (TS 25.221 [19]). | YES | reject |
| >Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >PCCPCH Power | M | | 9.2.3.9 | | _ | |
| Maximum Transmission Power | 0 | | 9.2.1.40 | | YES | reject |
| DPCH Constant Value | 0 | | Constant Value 9.2.3.4A | This IE shall be ignored by the Node B. | YES | reject |
| PUSCH Constant Value | 0 | | Constant Value 9.2.3.4A | This IE shall be ignored by the Node B. | YES | reject |
| PRACH Constant Value | 0 | | Constant Value 9.2.3.4A | This IE shall be ignored by the Node B. | YES | reject |
| Time Slot Configuration | | 015 | | Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD. | GLOBAL | reject |
| >Time Slot | M | | 9.2.3.23 | | _ | |
| >Time Slot Status | M | | 9.2.3.25 | | _ | |
| >Time Slot Direction | M | | 9.2.3.24 | | _ | |
| >MBSFN Cell Parameter ID | 0 | | Cell Parameter ID 9.2.3.4 | | YES | reject |

| Time Slot Configuration LCR | | 07 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary | GLOBAL | reject |
|---|---|----|----------------------|---|--------|--------|
| | | | | Frequency. | | |
| >Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >Time Slot Status | М | | 9.2.3.25 | | | |
| >Time Slot Direction | M | | 9.2.3.24 | | _ | |
| DwPCH Information | | 01 | | Applicable to 1.28Mcps TDD only. | YES | reject |
| >Common Physical Channel ID | M | | 9.2.1.13 | | - | |
| >DwPCH Power | M | + | 9.2.3.5B | | _ | |
| IPDL Parameter Information | | 01 | | Applicable to 3.84Mcps TDD and 7.68Mcps TDD only | YES | reject |
| >IPDL TDD Parameters | 0 | | 9.2.3.5D | , | _ | |
| >IPDL Indicator | M | | 9.2.1.36F | | _ | |
| IPDL Parameter Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | reject |
| >IPDL TDD Parameters LCR | 0 | | 9.2.3.5H | | _ | |
| >IPDL Indicator | M | | 9.2.1.36F | | _ | |
| SCH Information 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | reject |
| >Common Physical Channel ID 7.68Mcps | M | | 9.2.3.33 | | _ | |
| >SCH Power | М | | DL Power 9.2.1.21 | | - | |
| PCCPCH Information 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | reject |
| >Common Physical Channel ID 7.68Mcps | М | | 9.2.3.33 | | _ | |
| >PCCPCH Power | М | | 9.2.3.9 | | _ | |
| CHOICE UARFCN Adjustment | 0 | | | Applicable to 1.28Mcps TDD when using multiple frequencies | YES | reject |
| >Add | | | | | | |
| >>UARFCN Information To Add LCR | | 1 | | | - | |
| >>>UARFCN | М | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). This IE indicates the frequency of a Secondary Frequency to add. | _ | |

| | 1 | T | T | T | | 1 |
|------------------------------------|-----|---|-----------------------|----------------------------|-----|--------|
| >>>Time Slot Configuration LCR | | 17 | | This IE indicates the | _ | |
| | | | | Time Slot configuration of | | |
| | | | | a Secondary | | |
| | | | | Frequency to add. | | |
| >>>>Time Slot LCR | M | | 9.2.3.24A | aud. | _ | |
| >>>>Time Slot Status | М | | 9.2.3.25 | | 1 | |
| >>>>Time Slot | M | | 9.2.3.24 | | - | |
| Direction | | | | | | |
| >Modify | | | | | | |
| >>UARFCN Information To Modify LCR | | 1 <maxfreq< td=""><td></td><td>there could be several</td><td>_</td><td></td></maxfreq<> | | there could be several | _ | |
| To Modify ECK | | uencyinCe | | secondary | | |
| | | II-1> | | frequencies | | |
| >>>UARFCN | M | | 9.2.1.65 | Corresponds to | _ | |
| | | | | Nt (TS 25.105 | | |
| | | | | [15]). This IE | | |
| | | | | indicates the | | |
| | | | | frequency of a | | |
| | | | | Secondary Frequency to | | |
| | | | | modify. | | |
| >>>Time Slot | | 17 | | This IE | _ | |
| Configuration LCR | | | | indicates the | | |
| | | | | Time Slot reconfiguration | | |
| | | | | of a Secondary | | |
| | | | | Frequency to | | |
| | | | 0.00044 | modify. | | |
| >>>Time Slot LCR | M | | 9.2.3.24A 9.2.3.25 | | _ | |
| >>>>Time Slot Status | M | | 9.2.3.24 | | | |
| >>>>Time Slot Direction | IVI | | 9.2.3.24 | | _ | |
| >Delete | | | | | | |
| >>UARFCN Information | | 1 | | | _ | |
| To Delete LCR | | | | | | |
| >>>UARFCN | M | | 9.2.1.65 | Corresponds to | _ | |
| | | | | Nt (TS 25.105 [15]). | | |
| | | | | This IE | | |
| | | | | indicates the | | |
| | | | | frequency of Secondary | | |
| | | | | Frequency to | | |
| | | | | delete. | | |
| Dormant Mode Indicator | 0 | | 9.2.1.124 | | YES | reject |

| Range Bound | Explanation |
|--------------------|---|
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

9.1.28 CELL RECONFIGURATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.29 CELL RECONFIGURATION FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.30 CELL DELETION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | | 10,001 |
| C-ID | M | | 9.2.1.9 | | YES | reject |

9.1.31 CELL DELETION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | - | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.32 RESOURCE STATUS INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|-----------------------------|---|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CHOICE Indication Type | M | | | | YES | ignore |
| >No Failure | | | | | | |
| >>Local Cell Information | | 1 <max LocalCellin Node B></max | | | EACH | ignore |
| >>>Local Cell ID | M | | 9.2.1.38 | | _ | |
| >>>Add/Delete Indicator | M | | 9.2.1.1 | | _ | |
| >>>DL Or Global Capacity Credit | C-add | | 9.2.1.20B | | _ | |
| >>>UL Capacity Credit | 0 | | 9.2.1.65A | | _ | |
| >>>Common Channels Capacity Consumption Law | C-add | | 9.2.1.9A | | - | |
| >>>Dedicated Channels Capacity Consumption Law | C-add | | 9.2.1.20A | | - | |
| >>>Maximum DL Power Capability | C-add | | 9.2.1.39 | | - | |
| >>>Minimum Spreading Factor | C-add | | 9.2.1.47 | | _ | |
| >>>Minimum DL Power Capability | C-add | | 9.2.1.46A | | - | |
| >>>Local Cell Group ID | 0 | | 9.2.1.37A | | _ | |
| >>>Reference Clock Availability | 0 | | 9.2.3.14A | TDD only | YES | ignore |
| >>>Power Local Cell Group ID | 0 | | 9.2.1.49B | | YES | ignore |
| >>>HSDPA Capability | 0 | | 9.2.1.31Ga | | YES | ignore |
| >>>E-DCH Capability | 0 | | 9.2.1.70 | | YES | ignore |
| >>>E-DCH TTI2ms Capability | C- EDCHCap ability | | 9.2.2.13V | FDD only | YES | ignore |
| >>>E-DCH SF Capability | C- EDCHCap ability | | 9.2.2.13W | FDD only | YES | ignore |
| >>>E-DCH HARQ Combining Capability | C- EDCHCap ability | | 9.2.2.13X | FDD only | YES | ignore |
| >>>E-DCH Capacity Consumption Law | 0 | | 9.2.2.13Ja | FDD only | YES | ignore |
| >>>F-DPCH Capability | 0 | | 9.2.2.16a | FDD only | YES | ignore |
| >>>E-DCH TDD Capacity Consumption Law | 0 | | 9.2.3.60 | TDD only | YES | ignore |
| >>>Continuous Packet Connectivity DTX-DRX Capability | 0 | | 9.2.2.64 | FDD only | YES | ignore |
| >>>Max UE DTX Cycle | C-DTX- DRXCapa bility | | 9.2.2.95 | FDD only | YES | ignore |

| | T - | | T T | | 1 - |
|---|--------------------------------------|------------|---------------------------------|-----|--------|
| >>>Continuous Packet Connectivity HS-SCCH less Capability | 0 | 9.2.2.65 | FDD only | YES | ignore |
| >>>MIMO Capability | 0 | 9.2.1.118 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>SixtyfourQAM DL Capability | 0 | 9.2.1.110 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>MBMS Capability | 0 | 9.2.1.86 | , | YES | ignore |
| >>>Enhanced FACH Capability | 0 | 9.2.1.114 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>Enhanced PCH Capability | C- Enhanced FACHCap ability | 9.2.1.115 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>SixteenQAM UL Capability | 0 | 9.2.2.88 | FDD only | YES | ignore |
| >>>HS-DSCH MAC-d PDU Size Capability | 0 | 9.2.1.31IC | | YES | ignore |
| >>>MBSFN Only Mode Capability | 0 | 9.2.3.71 | 1.28Mcps TDD only | YES | ignore |
| >>>F-DPCH Slot Format Capability | 0 | 9.2.2.94 | FDD only | YES | ignore |
| >>>E-DCH MAC-d PDU Size Capability | 0 | 9.2.1.74A | | YES | ignore |
| >>>Common E-DCH Capability | 0 | 9.2.2.101 | FDD only | YES | Ignore |
| >>>E-AI Capability | C- CommonE DCHCapa bility | 9.2.2.102 | FDD only | YES | Ignore |
| >>>Enhanced UE DRX Capability | 0 | 9.2.1.116 | FDD only | YES | ignore |
| >>>Enhanced UE DRX Capability LCR | 0 | 9.2.1.116 | 1.28Mcps TDD only | YES | ignore |
| >>>E-DPCCH Power Boosting Capability | 0 | 9.2.2.109 | | YES | ignore |
| >>>SixtyfourQAM DL and MIMO Combined Capability | 0 | 9.2.1.121 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>Multi Cell Capability Info | 0 | 9.2.2.113 | FDD only | YES | ignore |
| >>>Semi-Persistent scheduling Capability LCR | 0 | 9.2.3.91 | 1.28Mcps TDD only | YES | ignore |
| >>>Continuous Packet Connectivity DRX Capability LCR | 0 | 9.2.3.92 | 1.28Mcps TDD only | YES | ignore |
| >>>Common E-DCH HS-DPCCH Capability | C- CommonE DCHCapa bility | 9.2.2.116 | FDD only | YES | Ignore |
| >>>MIMO Power Offset For S-CPICH Capability | 0 | 9.2.2.118 | FDD only | YES | ignore |
| >>>TX Diversity on DL Control Channels by MIMO UE Capability | 0 | 9.2.2.121 | FDD only | YES | ignore |
| >>>Single Stream MIMO Capability | 0 | 9.2.2.122 | FDD only | YES | Ignore |

| >>>Dual Band Capability Info | 0 | | 9.2.2.125 | FDD only | YES | ignore |
|---|-----|---|-------------------------|-------------------|------|--------|
| >>>Cell Portion Capability LCR | 0 | | 9.2.3.106 | 1.28Mcps TDD only | YES | ignore |
| >>>Cell Capability Container | 0 | | 9.2.2.129 | FDD only | YES | ignore |
| >>>TS0 Capability LCR | 0 | | 9.2.3.109 | 1.28Mcps TDD only | YES | ignore |
| >>>Precoding Weight Set Restriction | 0 | | 9.2.2.143 | FDD only | YES | ignore |
| >>>Adaptive Special Burst Power Capability LCR | 0 | | 9.2.3.112 | 1.28Mcps TDD only | YES | ignore |
| >>Local Cell Group Information | | 0 <maxlo calCellinN ode B></maxlo | | | EACH | ignore |
| >>>Local Cell Group ID | M | | 9.2.1.37A | | _ | |
| >>>DL Or Global Capacity Credit | М | | 9.2.1.20B | | - | |
| | 0 | | 9.2.1.65A | | _ | |
| >>>UL Capacity Credit | M | | 9.2.1.65A 9.2.1.9A | | | |
| >>>Common Channels Capacity Consumption Law | IVI | | 3.2.1.3A | | _ | |
| >>>Dedicated Channels Capacity Consumption Law | М | | 9.2.1.20A | | - | |
| >>>E-DCH Capacity Consumption Law | 0 | | 9.2.2.13Ja | FDD only | YES | ignore |
| >>>E-DCH TDD Capacity Consumption Law | 0 | | 9.2.3.60 | TDD only | YES | ignore |
| >>Power Local Cell Group Information | | 0 <maxlo calCellinN ode B></maxlo | | | EACH | ignore |
| >>>Power Local Cell Group ID | М | | 9.2.1.49B | | _ | |
| >>>Maximum DL Power Capability | М | | 9.2.1.39 | | _ | |
| >Service Impacting | | | | | | |
| >>Local Cell Information | | 0 <maxlo calCellinN ode B></maxlo | | | EACH | ignore |
| >>>Local Cell ID | М | | 9.2.1.38 | | _ | |
| >>>DL Or Global Capacity Credit | 0 | | 9.2.1.20B | | - | |
| >>>UL Capacity Credit | 0 | | 9.2.1.65A | | _ | |
| >>>Common Channels Capacity Consumption Law | 0 | | 9.2.1.9A | | - | |
| >>>Dedicated Channels Capacity Consumption Law | 0 | | 9.2.1.20A | | - | |
| >>>Maximum DL Power Capability | 0 | | 9.2.1.39 | | _ | |
| >>>Minimum Spreading | 0 | | 9.2.1.47 | | _ | |
| Factor | | | 9.2.1.46A | | _ | |
| >>>Minimum DL Power Capability | 0 | | 0.2.1.10/1 | | | |
| >>>Minimum DL Power | 0 | | 9.2.3.14A 9.2.1.31Ga | TDD only | YES | ignore |

| >>>E-DCH Capability | 0 | 9.2.1.70 | | YES | ignore |
|---|--------------------------------------|------------|---------------------------------|-----|--------|
| >>>E-DCH TTI2ms Capability | C- EDCHCap ability | 9.2.2.13V | FDD only | YES | ignore |
| >>>E-DCH SF Capability | C- EDCHCap ability | 9.2.2.13W | FDD only | YES | ignore |
| >>>E-DCH HARQ Combining Capability | C- EDCHCap ability | 9.2.2.13X | FDD only | YES | ignore |
| >>>E-DCH Capacity Consumption Law | 0 | 9.2.2.13Ja | FDD only | YES | ignore |
| >>>F-DPCH Capability | 0 | 9.2.2.16a | | YES | ignore |
| >>>E-DCH TDD Capacity Consumption Law | 0 | 9.2.3.60 | TDD only | YES | ignore |
| >>>Continuous Packet Connectivity DTX-DRX Capability | 0 | 9.2.2.64 | FDD only | YES | ignore |
| >>>Max UE DTX Cycle | C-DTX- DRXCapa bility | 9.2.2.95 | FDD only | YES | ignore |
| >>>Continuous Packet Connectivity HS-SCCH less Capability | 0 | 9.2.2.65 | FDD only | YES | ignore |
| >>>MIMO Capability | 0 | 9.2.1.118 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>SixtyfourQAM DL Capability | 0 | 9.2.1.110 | FDD and 1.28Mcps TDD only | YES | ignore |
| >>>MBMS Capability | 0 | 9.2.1.86 | | YES | ignore |
| >>>Enhanced FACH Capability | 0 | 9.2.1.114 | FDD only and 1.28Mcps TDD | YES | ignore |
| >>>Enhanced PCH Capability | C- Enhanced FACHCap ability | 9.2.1.115 | FDD only and 1.28Mcps TDD | YES | ignore |
| >>>SixteenQAM UL Capability | 0 | 9.2.2.88 | FDD only | YES | ignore |
| >>>HS-DSCH MAC-d PDU Size Capability | 0 | 9.2.1.31IC | | YES | ignore |
| >>>MBSFN Only Mode Capability | 0 | 9.2.3.71 | 1.28Mcps TDD only | YES | ignore |
| >>>F-DPCH Slot Format Capability | 0 | 9.2.2.94 | FDD only | YES | ignore |
| >>>E-DCH MAC-d PDU Size Capability | 0 | 9.2.1.74A | | YES | ignore |
| >>>Common E-DCH Capability | 0 | 9.2.2.101 | FDD only | YES | Ignore |
| >>>E-AI Capability | C- CommonE DCHCapa bility | 9.2.2.102 | FDD only | YES | Ignore |
| >>>Enhanced UE DRX Capability | 0 | 9.2.2.107 | FDD only | YES | ignore |
| >>>Enhanced UE DRX Capability LCR | 0 | 9.2.1.116 | 1.28Mcps TDD only | YES | ignore |
| >>>E-DPCCH Power Boosting Capability | 0 | 9.2.2.109 | | YES | ignore |

| | | 1 | | 1 | | |
|--|------------------------------|---|------------|---------------------------------|------|-----------|
| >>>SixtyfourQAM DL and MIMO Combined | 0 | | 9.2.1.121 | FDD and 1.28Mcps TDD only | YES | ignore |
| Capability | | | | _ | | |
| >>>Multi Cell Capability Info | 0 | | 9.2.2.113 | FDD only | YES | ignore |
| >>>Semi-Persistent | 0 | | 9.2.3.91 | 1.28Mcps TDD | YES | ignore |
| scheduling Capability | | | | only | | |
| LCR | | | | | | |
| >>>Continuous Packet | 0 | | 9.2.3.92 | 1.28Mcps TDD | YES | ignore |
| Connectivity DRX | | | | only | | J |
| Capability LCR | | | | | | |
| >>>Common E-DCH | C- | | 9.2.2.116 | FDD only | YES | Ignore |
| HS-DPCCH Capability | CommonE DCHCapa bility | | 3.2.2.110 | 1 DD only | | , |
| >>>MIMO Power Offset | 0 | | 9.2.2.118 | FDD only | YES | ignore |
| For S-CPICH Capability | | | | | | |
| >>>TX Diversity on DL | 0 | | 9.2.2.121 | FDD only | YES | ignore |
| Control Channels by | | | | | | _ |
| MIMO UE Capability | | | | | | |
| >>>Single Stream | 0 | | 9.2.2.122 | FDD only | YES | Ignore |
| MIMO Capability | | | | , | . 23 | |
| | 0 | | 9.2.2.125 | FDD only | YES | ignore |
| >>>Dual Band | | | 9.2.2.120 | 1 DD Only | 123 | ignore |
| Capability Info | | | 0.2.2.406 | 1 20Mana TDD | YES | ignore |
| >>>Cell Portion | 0 | | 9.2.3.106 | 1.28Mcps TDD only | 169 | ignore |
| Capability LCR | | | | • | \/=0 | |
| >>>Cell Capability | 0 | | 9.2.2.129 | FDD only | YES | ignore |
| Container | | | | | | |
| >>>TS0 Capability LCR | 0 | | 9.2.3.109 | 1.28Mcps TDD only | YES | ignore |
| >>>Precoding Weight | 0 | | 9.2.2.143 | FDD only | YES | ignore |
| Set Restriction | | | | | | |
| >>>Adaptive Special | 0 | | 9.2.3.112 | 1.28Mcps TDD | YES | ignore |
| Burst Power Capability | | | | only | | |
| LCR | | | | | | |
| >>Local Cell Group | | 0 <maxlo< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxlo<> | | | EACH | ignore |
| Information | | calCellinN | | | | · · |
| | | ode B> | | | | |
| >>>Local Cell Group ID | M | | 9.2.1.37A | | 1 | |
| >>>DL Or Global | 0 | | 9.2.1.20B | | | |
| Capacity Credit | | | | | | |
| >>>UL Capacity Credit | 0 | | 9.2.1.65A | | _ | |
| >>>Common Channels | 0 | | 9.2.1.9A | | _ | |
| Capacity Consumption | | | | | | |
| Law | | | | | | |
| >>> Dedicated Channels | 0 | | 9.2.1.20A | | _ | |
| Capacity Consumption | - | | | | | |
| Law | | | | | | |
| | 0 | | 9.2.2.13Ja | FDD only | YES | ignore |
| >>>E-DCH Capacity | | | 9.2.2.13Ja | 1 DD Only | 123 | ignore |
| Consumption Law | | | 0.0.0.00 | TDD ank | VEC | iona a r- |
| >>>E-DCH TDD | 0 | | 9.2.3.60 | TDD only | YES | ignore |
| Capacity Consumption | | | | | | |
| Law | | 0 <maxc< td=""><td>1</td><td></td><td>EACH</td><td>ignoro</td></maxc<> | 1 | | EACH | ignoro |
| >>Communication Control Port Information | | CPinNode B> | | | EACH | ignore |
| >>>Communication Control Port ID | М | | 9.2.1.15 | | _ | |
| >>>Resource | M | | 9.2.1.52 | | _ | |
| Operational State | | | | | | |
| Operational State | I . | <u> </u> | <u> </u> | | | |

| >>>Availability Status | M | | 9.2.1.2 | | _ | |
|---|---|---|--|---------------------|------|--------|
| >>Cell Information | | 0 <maxce IlinNode B></maxce | | | EACH | ignore |
| >>>C-ID | М | | 9.2.1.9 | | _ | |
| >>>Resource Operational State | 0 | | 9.2.1.52 | | _ | |
| >>>Availability Status | 0 | | 9.2.1.2 | | _ | |
| >>>Primary SCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | FDD only | YES | ignore |
| >>>Secondary SCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | FDD only | YES | ignore |
| >>>Primary CPICH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | FDD only | YES | ignore |
| >>>Secondary CPICH Information | | 0 <maxs CPICHCell ></maxs | | FDD only | EACH | ignore |
| >>>Secondary CPICH Individual Information | M | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >>>Primary CCPCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | | YES | ignore |
| >>>BCH Information | 0 | | Common Transport Channel Status Information 9.2.1.14B | | YES | ignore |
| >>>Secondary CCPCH Information | | 0 <maxs CCPCHCe II></maxs | | See note 1 below | EACH | ignore |
| >>>Secondary CCPCH Individual Information | M | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >>>PCH Information | 0 | | Common Transport Channel Status Information 9.2.1.14B | | YES | ignore |

| | 10 | 1 | Ca | 1 | YES | |
|--|-----|--|--|---------------------------------------|--------|------------------|
| >>>PICH Information | 0 | | Common Physical | | YES | ignore |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.13A | | | |
| >>>FACH Information | | 0 <maxfa< td=""><td>3.2.1.10/1</td><td></td><td>EACH</td><td>ignore</td></maxfa<> | 3.2.1.10/1 | | EACH | ignore |
| ZZZI ZON INIOMIANON | | CHCell> | | | | 9 |
| >>>FACH Individual | М | | Common | | _ | |
| Information | | | Transport | | | |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information 9.2.1.14B | | | |
| >>>PRACH | | 0 <maxp< td=""><td>9.2.1.140</td><td></td><td>EACH</td><td>ignore</td></maxp<> | 9.2.1.140 | | EACH | ignore |
| | | RACHCell | | | 2,1011 | ignore |
| Information | | > | | | | |
| >>>PRACH | М | | Common | | _ | |
| Individual Information | | | Physical | | | |
| | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | 0 <maxp< td=""><td>9.2.1.13A</td><td></td><td>EACH</td><td></td></maxp<> | 9.2.1.13A | | EACH | |
| >>>RACH Information | | RACHCell | | | EACH | ignore |
| | | > | | | | |
| >>>>RACH Individual | М | | Common | | _ | |
| Information | | | Transport | | | |
| mormation | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.14B | | | |
| >>>AICH Information | | 0 <maxp< td=""><td></td><td>FDD only</td><td>EACH</td><td>ignore</td></maxp<> | | FDD only | EACH | ignore |
| | | RACHCell | | | | |
| >>>>AICH Individual | M | > | Common | | _ | |
| | IVI | | Physical | | | |
| Information | | | Channel | | | |
| | | | Status | | | |
| | | | Information | | | |
| | | | 9.2.1.13A | | | |
| >>>Not Used 1 | О | | NULL | This item shall | _ | |
| | | | | not be used. | | |
| | | | | Ignore if | | |
| | 0 | | NULL | received. This item shall | | |
| >>>Not Used 2 | | | NULL | not be used. | _ | |
| | | | | Ignore if | | |
| | | | | received. | | |
| >>>Not Used 3 | 0 | | NULL | This item shall | _ | |
| 7771101 0000 0 | | | | not be used. | | |
| | | | | Ignore if | | |
| | | | | received. | | |
| >>>Not Used 4 | 0 | | NULL | This item shall | _ | |
| | 1 | | | not be used. | | |
| | | | ĺ | Ignore if | | |
| | | | | | | i |
| 001111 | | | Common | received. | VEC | ianoro |
| >>>SCH Information | 0 | | Common | Applicable to | YES | ignore |
| >>>SCH Information | 0 | | Physical | Applicable to 3.84Mcps TDD | YES | ignore |
| >>>SCH Information | 0 | | Physical Channel | Applicable to | YES | ignore |
| >>>SCH Information | 0 | | Physical Channel Status | Applicable to 3.84Mcps TDD | YES | ignore |
| >>>SCH Information | 0 | | Physical Channel Status Information | Applicable to 3.84Mcps TDD | YES | ignore |
| | 0 | 0 <maxfp< td=""><td>Physical Channel Status</td><td>Applicable to 3.84Mcps TDD only</td><td>YES</td><td></td></maxfp<> | Physical Channel Status | Applicable to 3.84Mcps TDD only | YES | |
| >>>SCH Information >>>FPACH Information | 0 | 0 <maxfp ACHCell></maxfp | Physical Channel Status Information | Applicable to 3.84Mcps TDD | | ignore ignore |

| >>>FPACH Individual Information | М | | Common Physical Channel Status Information 9.2.1.13A | | - | |
|---------------------------------------|---|--|--|---|------|--------|
| >>>DwPCH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | Applicable to 1.28Mcps TDD only | YES | ignore |
| >>>HS-DSCH Resources Information | | 0 <maxfreq uencyinCe II></maxfreq | | See note 2 below | EACH | ignore |
| >>>>Resource Operational State | M | | 9.2.1.52 | | - | |
| >>>Availability Status | M | | 9.2.1.2 | | _ | |
| >>>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable to 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| >>>MICH Information | 0 | | Common Physical Channel Status Information 9.2.1.13A | | YES | ignore |
| >>>E-DCH Resources Information | | 0 <maxfr equencyin Cell></maxfr | | See note 2 below | EACH | ignore |
| >>>Resource Operational State | М | | 9.2.1.52 | | _ | |
| >>>Availability Status | М | | 9.2.1.2 | | _ | |
| >>>>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable to 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| >>>PLCCH Information | | 0 <maxpl CCHCell></maxpl | | Applicable to 1.28Mcps TDD only | EACH | ignore |
| >>>PLCCH Individual Information | М | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >>>Primary CCPCH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | | YES | ignore |

| >>>Secondary CCPCH Information 7.68Mcps | | 0 <maxs CCPCHCe II768></maxs | | | EACH | ignore |
|--|---|---|--|---|------|--------|
| >>>Secondary CCPCH Individual Information 7.68Mcps | М | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | | - | |
| >>>PICH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | | YES | ignor |
| >>>PRACH Information 7.68Mcps | | 0 <maxp RACHCell ></maxp | | | EACH | ignor |
| >>>>PRACH Individual Information 7.68Mcps | M | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | | - | |
| >>>SCH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | Applicable to 7.68Mcps TDD only | YES | ignor |
| >>>MICH Information 7.68Mcps | 0 | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | | YES | ignor |
| >>>E-RUCCH Information | | 0 <maxe- RUCCHCe II></maxe- | | Applicable to 3.84Mcps TDD only | EACH | ignor |
| >>>E-RUCCH Individual Information | M | | Common Physical Channel Status Information 9.2.1.13A | | - | |
| >>>E-RUCCH Information 7.68Mcps | | 0 <maxe- RUCCHCe II></maxe- | | Applicable to 7.68Mcps TDD only | EACH | ignor |
| >>>>E-RUCCH Individual Information 7.68Mcps | М | | Common Physical Channel Status Information 7.68Mcps 9.2.3.36 | | - | |
| >>>UARFCN Information LCR | | 0 <maxfr equencyin Cell></maxfr | | Applicable to 1.28Mcps TDD when using multiple frequencies. | EACH | ignor |
| >>>>UARFCN | М | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). | - | |

| >>>Resource | М | | 9.2.1.52 | | 1 | |
|--------------------------------------|---|--|-----------|--|------|--------|
| Operational State | | | | | | |
| >>>Availability | М | | 9.2.1.2 | | _ | |
| Status | | | | | | |
| >>>Cause | 0 | | 9.2.1.6 | | 1 | |
| >>>UpPCH | | 0 <maxfr< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxfr<> | | Applicable to | EACH | ignore |
| Information LCR | | equencyin Cell> | | 1.28Mcps TDD only. | | |
| >>>UARFCN | 0 | | 9.2.1.65 | Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (TS 25.105 [15]). | I | |
| >>>>UpPCH Position LCR | M | | 9.2.3.4Q | | - | |
| >>>Resource Operational State | М | | 9.2.1.52 | | - | |
| >>>Availability Status | M | | 9.2.1.2 | | 1 | |
| >>Power Local Cell Group Information | | 0 <maxlo calCellinN ode B></maxlo | | | EACH | ignore |
| >>>Power Local Cell Group ID | М | | 9.2.1.49B | | _ | |
| >>>Maximum DL Power Capability | М | | 9.2.1.39 | | - | |
| Cause | 0 | | 9.2.1.6 | | YES | ignore |
| | | | | | | |

NOTE 1: This information element is a simplified representation of the ASN.1. [TDD - Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.

NOTE 2: For 1.28Mcps TDD when using multiple frequencies, this information element for Repetition 1 and repetition 2 through maxFrequencyinCell are represented by respective ASN.1 structures with different criticalities.

| Condition | Explanation |
|------------------------|---|
| add | The IE shall be present if the Add/Delete Indicator IE is set to "Add". |
| EDCHCapability | The IE shall be present if the E-DCH Capability IE is set to "E-DCH |
| | Capable". |
| EnhancedFACHCapability | The IE shall be present if the Enhanced FACH Capability IE is set to |
| | "Enhanced FACH Capable". |
| DTX-DRXCapability | The IE shall be present if the Continuous Packet Connectivity DTX-DRX |
| | Capability IE is present and set to "Continuous Packet Connectivity |
| | DTX-DRX Capable". |
| CommonEDCHCapability | The IE shall be present if the Common E-DCH Capability IE is set to |
| | "Common E-DCH Capable". |

| Range Bound | Explanation |
|----------------------|---|
| maxLocalCellinNode B | Maximum number of Local Cells that can exist in the Node B |
| maxCellinNode B | Maximum number of C-IDs that can be configured in the Node B |
| maxSCPICHCell | Maximum number of Secondary CPICHs that can be defined in a Cell. |
| maxSCCPCHCell | Maximum number of Secondary CCPCHs that can be defined in a Cell. |
| maxFACHCell | Maximum number of FACHs that can be defined in a Cell |
| maxPRACHCell | Maximum number of PRACHs and AICHs that can be defined in a Cell |
| maxCCPinNode B | Maximum number of Communication Control Ports that can exist in the |
| | Node B |
| maxFPACHCell | Maximum number of FPACHs that can be defined in a Cell |
| maxPLCCHCell | Maximum number of PLCCHs that can be defined in a Cell |
| maxE-RUCCHCell | Maximum number of E-RUCCHs that can be defined in a Cell |
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

9.1.33 SYSTEM INFORMATION UPDATE REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|---------------------------|--------------------------------|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | - | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| BCCH Modification Time | 0 | | 9.2.1.3 | | YES | reject |
| MIB/SB/SIBInformation | | 1 <maxib ></maxib | | | GLOBAL | reject |
| >IB Type | M | | 9.2.1.35 | | _ | |
| >IB OC ID | M | | 9.2.1.31A | In one message, every occurrence of IB Type can only be deleted once and/or added once. | - | |
| >CHOICE IB Deletion Indicator | M | | | | _ | |
| >>No Deletion | | | | | | |
| >>>SIB Originator | C-SIB | | 9.2.1.55 | | _ | |
| >>>IB SG REP | 0 | | 9.2.1.34 | | _ | |
| >>>Segment Information | | 1 <maxib SEG></maxib | | | GLOBAL | reject |
| >>>>IB SG POS | 0 | | 9.2.1.33 | | - | |
| >>>Segment Type | C- CRNCOrig ination | | 9.2.1.53B | | - | |
| >>>>IB SG DATA | C- CRNCOrig ination | | 9.2.1.32 | | - | |
| >>Deletion | | | NULL | | | |

| Range bound | Explanation | | | |
|-------------|---|--|--|--|
| maxIB | Maximum number of information Blocks supported in one message | | | |
| maxIBSEG | Maximum number of segments for one Information Block | | | |

| Condition | Explanation |
|-----------------|---|
| CRNCOrigination | The IE shall be present if the SIB Originator IE is set to "CRNC" or if the |
| | IB Type IE is set to "MIB", "SB1" or "SB2". |
| SIB | The IE shall be present if the <i>IB Type</i> IE is set to "SIB". |

9.1.34 SYSTEM INFORMATION UPDATE RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.35 SYSTEM INFORMATION UPDATE FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Cause | М | | 9.2.1.6 | _ | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|------------------|---|------------------------------------|---|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | I | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | reject |
| UL DPCH Information | | 1 | | | YES | reject |
| >UL Scrambling Code | М | | 9.2.2.59 | | _ | |
| >Min UL Channelisation | М | | 9.2.2.22 | | _ | |
| Code Length | | | | | | |
| >Max Number of UL | C- | | 9.2.2.21 | | _ | |
| DPDCHs | CodeLen | | | | | |
| >Puncture Limit | М | | 9.2.1.50 | For UL | - | |
| >TFCS | M | | 9.2.1.58 | For UL | _ | |
| >UL DPCCH Slot Format | M | | 9.2.2.57 | | _ | |
| >UL SIR Target | М | | UL SIR | | _ | |
| 702 On Targot | | | 9.2.1.67A | | | |
| >Diversity Mode | М | | 9.2.2.9 | | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >DPC Mode | 0 | | 9.2.2.13C | | YES | reject |
| >UL DPDCH Indicator For E-DCH Operation | 0 | | 9.2.2.61 | This IE may be present without the presence of the <i>E-DPCH Information</i> IE | YES | reject |
| DL DPCH Information | | 01 | | | YES | reject |
| >TFCS | М | | 9.2.1.58 | For DL | ı | |
| >DL DPCH Slot Format | М | | 9.2.2.10 | | 1 | |
| >TFCI Signalling Mode | М | | 9.2.2.50 | | - | |
| >TFCI Presence | C- SlotFormat | | 9.2.1.57 | | Ι | |
| >Multiplexing Position | М | | 9.2.2.23 | | _ | |
| >Not Used | 0 | | NULL | | 1 | |
| >Not Used | 0 | | NULL | | _ | |
| >Power Offset | | 1 | | | _ | |
| Information | | | | | | |
| >>PO1 | M | | Power Offset 9.2.2.29 | Power offset for the TFCI bits | - | |
| >>PO2 | М | | Power Offset 9.2.2.29 | Power offset for the TPC bits | - | |
| >>PO3 | М | | Power Offset 9.2.2.29 | Power offset for the pilot bits | - | |
| >FDD TPC DL Step Size | M | | 9.2.2.16 | | _ | |
| >Limited Power Increase | M | | 9.2.2.18A | | _ | |
| >Inner Loop DL PC Status | M | | 9.2.2.18B | | _ | |
| DCH Information | M | | DCH FDD Information 9.2.2.4D | | YES | reject |
| RL Information | | 1 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<> | | | EACH | notify |

| | 1 | ofRLs> | <u> </u> | 1 | | |
|---|----------------------|--------|--|---|------|------------------|
| >RL ID | M | UINLS> | 9.2.1.53 | | _ | |
| >C-ID | M | | 9.2.1.9 | | _ | |
| >C-ID >First RLS Indicator | M | | 9.2.2.16A | | _ | |
| | M | | 9.2.1.31 | | _ | |
| >Frame Offset | M | | 9.2.2.2 | | _ | |
| >Chip Offset | | | | | _ | |
| >Propagation Delay | 0 | | 9.2.2.35 | | _ | |
| >Diversity Control Field | C- NotFirstRL | | 9.2.1.25 | | _ | |
| >DL Code Information | M | | FDD DL Code Information 9.2.2.14A | | _ | |
| >Initial DL Transmission Power | M | | DL Power 9.2.1.21 | Initial power on DPCH or on F-DPCH | _ | |
| >Maximum DL Power | М | | DL Power 9.2.1.21 | Maximum allowed power on DPCH or on F-DPCH | _ | |
| >Minimum DL Power | M | | DL Power 9.2.1.21 | Minimum allowed power on DPCH or on F-DPCH | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >Transmit Diversity Indicator | C-Diversity mode | | 9.2.2.53 | | _ | |
| >RL Specific DCH | 0 | | 9.2.1.53G | | YES | ignore |
| Information | | | 0.0.1.0.10 | | \/50 | |
| >Delayed Activation | 0 | | 9.2.1.24C | | YES | reject |
| >Primary CPICH Usage For Channel Estimation | 0 | | 9.2.2.33A | | YES | ignore |
| >Secondary CPICH Information | 0 | | Common Physical Channel ID 9.2.1.13 | | YES | ignore |
| >E-DCH RL Indication | 0 | | 9.2.2.13De | | YES | reject |
| >RL Specific E-DCH | 0 | | 9.2.2.39a | | YES | ignore |
| Information | 0 | | 9.2.2.48A | | YES | ignoro |
| >Synchronisation Indicator >Extended Propagation | 0 | | 9.2.2.46A 9.2.2.35A | | YES | ignore ignore |
| Delay | | | | | | |
| >F-DPCH Slot Format | 0 | | 9.2.2.93 | | YES | reject |
| > HS-DSCH Preconfiguration Setup | 0 | | 9.2.2.112 | | YES | ignore |
| >E-RNTI | 0 | | 9.2.1.75 | | YES | ignore |
| >Non-Serving RL | 0 | | 9.2.2.144 | | YES | ignore |
| Preconfiguration Setup Transmission Gap Pattern | 0 | | 9.2.2.53A | | YES | reject |
| Sequence Information Active Pattern Sequence | 0 | | 9.2.2.A | | YES | reject |
| Information DL Power Balancing | 0 | | 9.2.2.12B | | YES | ignore |
| Information | <u> </u> | | <u> </u> | | | <u> </u> |
| HS-DSCH Information | 0 | | HS-DSCH FDD Information 9.2.2.18D | | YES | reject |
| HS-DSCH-RNTI | C- InfoHSDS CH | | 9.2.1.31J | | YES | reject |
| HS-PDSCH RL ID | C- | | RL ID | | YES | reject |

| | InfoHSDS | | 9.2.1.53 | | | |
|---|---------------------|--|-----------------------------|---|------|--------|
| | СН | | | | | |
| E-DPCH Information | | 01 | | | YES | reject |
| >Maximum Set of E- DPDCHs | M | | 9.2.2.20C | | _ | |
| >Puncture Limit | M | | 9.2.1.50 | | _ | |
| >E-TFCS Information | M | | 9.2.2.13Dh | | _ | |
| >E-TTI | M | | 9.2.2.13Di | | _ | |
| >E-DPCCH Power Offset | M | | 9.2.2.13Dj | | _ | |
| >E-RGCH 2-Index-Step Threshold | M | | 9.2.2.13lg | | - | |
| >E-RGCH 3-Index-Step Threshold | M | | 9.2.2.13lh | | _ | |
| >HARQ Info for E-DCH | M | | 9.2.2.18ba | | _ | |
| >HS-DSCH Configured Indicator | М | | 9.2.2.18Ca | | _ | |
| >E-RNTI | 0 | | 9.2.1.75 | Shall be ignored if <i>E-RNT</i> IE is included in the <i>RL Information</i> IE | YES | reject |
| >Minimum Reduced E- DPDCH Gain Factor | 0 | | 9.2.2.114 | | YES | ignore |
| E-DCH FDD Information | C- EDPCHInf o | | 9.2.2.13Da | | YES | reject |
| Serving E-DCH RL | 0 | | 9.2.2.48B | | YES | reject |
| F-DPCH Information | | 01 | | | YES | reject |
| >Power Offset | | 1 | | | _ | , |
| Information | | | | | | |
| >>PO2 | M | | Power Offset 9.2.2.29 | This IE shall be ignored by Node B. | _ | |
| >FDD TPC DL Step Size | M | | 9.2.2.16 | | _ | |
| >Limited Power Increase | M | | 9.2.2.18A | | _ | |
| >Inner Loop DL PC Status | M | | 9.2.2.18B | | | |
| Initial DL DPCH Timing Adjustment Allowed | 0 | | 9.2.2.18K | | YES | ignore |
| DCH Indicator For E-DCH- HSDPA Operation | 0 | | 9.2.2.4F | | YES | reject |
| Serving Cell Change CFN | 0 | | CFN 9.2.1.7 | | YES | reject |
| Continuous Packet Connectivity DTX-DRX Information | 0 | | 9.2.2.66 | | YES | reject |
| Continuous Packet Connectivity HS-SCCH less Information | 0 | | 9.2.2.68 | | YES | reject |
| Additional HS Cell Information RL Setup | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS-DSCH cell. Max 1 in this 3GPP release. | EACH | reject |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | | |
| >C-ID | М | | 9.2.1.9 | | _ | |
| >HS-DSCH FDD Secondary Serving Information | М | | 9.2.2.18Da | | - | |
| UE Aggregate Maximum Bit Rate | 0 | | 9.2.1.123 | | YES | ignore |

| Additional E-DCH Cell Information RL Setup Req | | 01 | | For E-DCH on multiple frequencies in this Node B. | YES | reject |
|---|---|--|-----------|--|-----|--------|
| >Multicell E-DCH Transport Bearer Mode | M | | 9.2.2.130 | | - | |
| >Additional E-DCH Cell Information Setup | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | - | |
| >>Additional E-DCH FDD Setup Information | М | | 9.2.2.131 | | - | |

| Condition | Explanation |
|----------------|--|
| CodeLen | The IE shall be present if Min UL Channelisation Code Length IE equals |
| | to 4. |
| NotFirstRL | The IE shall be present if the RL is not the first one in the RL Information |
| | IE. |
| SlotFormat | The IE shall be present if the DL DPCH Slot Format IE is equal to any of |
| | the values from 12 to 16. |
| Diversity mode | The IE shall be present if Diversity Mode IE in UL DPCH Information IE |
| | is not set to "none". |
| InfoHSDSCH | The IE shall be present if HS-DSCH Information IE is present. |
| EDPCHInfo | This IE shall be present if <i>E-DPCH Information</i> IE is present. |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.36.2 TDD message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---------------------------------------|----------|--|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | - | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | reject |
| UL CCTrCH Information | | 0 <maxno CCTrCH></maxno | | | EACH | notify |
| >CCTrCH ID | M | | 9.2.3.3 | | _ | |
| >TFCS | М | | 9.2.1.58 | | _ | |
| >TFCI Coding | М | | 9.2.3.22 | | _ | |
| >Puncture Limit | М | | 9.2.1.50 | | - | |
| >UL DPCH Information | | 01 | | Applicable to 3.84Mcps TDD only | YES | notify |
| >>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>UL Timeslot Information | М | | 9.2.3.26C | | _ | |
| >UL DPCH Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | notify |
| >>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>UL Timeslot Information LCR | М | | 9.2.3.26E | | _ | |
| >UL SIR Target | 0 | | UL SIR 9.2.1.67A | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >TDD TPC UL Step Size | 0 | | 9.2.3.21a | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >UL DPCH Information 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | notify |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>UL Timeslot Information 7.68Mcps | М | | 9.2.3.38 | | _ | |
| DL CCTrCH Information | | 0 <maxno CCTrCH></maxno | | | EACH | notify |
| >CCTrCH ID | M | | 9.2.3.3 | | _ | |
| >TFCS | М | | 9.2.1.58 | | - | |
| >TFCI Coding | M | | 9.2.3.22 | | _ | |
| >Puncture Limit | M | | 9.2.1.50 | | - | |
| >TDD TPC DL Step Size | М | | 9.2.3.21 | | - | |
| >TPC CCTrCH List | | 0 <maxno< td=""><td></td><td>List of uplink</td><td>_</td><td></td></maxno<> | | List of uplink | _ | |

| | | CCTrCH> | | CCTrCH which | | |
|--|---|----------|-------------------------------------|---|-----|--------|
| | | 00110111 | | provide TPC | | |
| >>TPC CCTrCH ID | М | | CCTrCH ID 9.2.3.3 | | _ | |
| >DL DPCH information | | 01 | | Applicable to 3.84Mcps TDD only | YES | notify |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>DL Timeslot | М | | 9.2.3.4E | | _ | |
| Information | | | | | | |
| >DL DPCH information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | notify |
| >>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>DL Timeslot | М | | 9.2.3.40 | | _ | |
| Information LCR | M | | 9.2.1.64 | | _ | |
| >>TSTD Indicator >CCTrCH Initial DL | O | | 9.2.1.64 DL Power | | YES | ignore |
| Transmission Power | | | 9.2.1.21 | | | ignore |
| >CCTrCH Maximum DL Transmission Power | 0 | | DL Power 9.2.1.21 | | YES | ignore |
| >CCTrCH Minimum DL Transmission Power | 0 | | DL Power 9.2.1.21 | | YES | ignore |
| >DL DPCH information 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | notify |
| >>Repetition Period | М | | 9.2.3.16 | Office | _ | |
| >>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>DL Timeslot Information 7.68Mcps | М | | 9.2.3.39 | | _ | |
| DCH Information | 0 | | DCH TDD Information 9.2.3.4C | | YES | reject |
| DSCH Information | 0 | | DSCH TDD Information 9.2.3.5A | | YES | reject |
| USCH Information | 0 | | 9.2.3.28 | | YES | reject |
| RL Information | | 1 | | | YES | reject |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >C-ID | M | | 9.2.1.9 | | - | |
| >Frame Offset | М | | 9.2.1.31 | | _ | |
| >Special Burst Scheduling | М | | 9.2.3.18A | | _ | |
| >Initial DL Transmission Power | М | | DL Power 9.2.1.21 | | _ | |
| >Maximum DL Power | М | | DL Power 9.2.1.21 | | _ | |
| >Minimum DL Power | М | | DL Power 9.2.1.21 | | _ | |
| >DL Time Slot ISCP Info | 0 | | 9.2.3.4F | Applicable to 3.84Mcps TDD and 7.68Mcps TDD only | _ | |
| >DL Time Slot ISCP Info LCR | 0 | | 9.2.3.4P | Applicable to 1.28Mcps TDD only | YES | reject |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |

| >Delayed Activation | 0 | | 9.2.1.24C | | YES | reject |
|---|----------------------|----|---|--|-----|--------|
| >UL Synchronisation Parameters LCR | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >>Uplink Synchronisation Step Size | M | | 9.2.3.26H | | _ | |
| >>Uplink Synchronisation Frequency | М | | 9.2.3.26G | | - | |
| >UARFCN | 0 | | 9.2.1.65 | Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (TS 25.105 [15]). | YES | reject |
| HS-DSCH Information | 0 | | HS-DSCH TDD Information 9.2.3.5F | | YES | reject |
| HS-DSCH-RNTI | C- InfoHSDS CH | | 9.2.1.31J | | YES | reject |
| HS-PDSCH RL ID | C- InfoHSDS CH | | RL ID 9.2.1.53 | | YES | reject |
| PDSCH-RL-ID | 0 | | RL ID 9.2.1.53 | | YES | ignore |
| E-DCH Information | | 01 | | 3.84Mcps TDD only | YES | reject |
| >E-PUCH Information | M | | 9.2.3.45 | | _ | |
| >E-TFCS Information TDD | M | | 9.2.3.46 | | _ | |
| >E-DCH MAC-d Flows Information TDD | М | | 9.2.3.47 | | _ | |
| >E-DCH Non-scheduled Grant Information TDD | 0 | | 9.2.3.48 | | _ | |
| >E-DCH TDD Information | M | | 9.2.3.49 | | | |
| E-DCH Serving RL | 0 | | 9.2.1.53 | | YES | reject |
| E-DCH Information 7.68Mcps | | 01 | | 7.68Mcps TDD only | YES | reject |
| >E-PUCH Information | M | | 9.2.3.45 | | _ | |
| >E-TFCS Information TDD | M | | 9.2.3.46 | | | |
| >E-DCH MAC-d Flows Information TDD | М | | 9.2.3.47 | | _ | |
| >E-DCH Non-scheduled Grant Information 7.68Mcps TDD | 0 | | 9.2.3.64 | | - | |
| >E-DCH TDD Information 7.68Mcps | М | | 9.2.3.65 | | | |
| E-DCH Information 1.28Mcps | | 01 | | 1.28Mcps TDD only | YES | reject |
| >E-PUCH Information LCR | M | | 9.2.3.45a | | | |
| >E-TFCS Information TDD | M | | 9.2.3.46 | | _ | |
| >E-DCH MAC-d Flows Information TDD | М | | 9.2.3.47 | | _ | |
| >E-DCH Non-scheduled Grant Information LCR TDD | 0 | | 9.2.3.48a | | - | |
| >E-DCH TDD Information LCR | М | | 9.2.3.49a | | _ | |
| Power Control GAP | 0 | | INTEGER (1255) | Unit: Number of subframes Applicable to 1.28Mcps TDD | YES | ignore |

| | | | only | | |
|--|---|-------------------------------|---|-----|--------|
| Continuous Packet Connectivity DRX Information LCR | 0 | 9.2.3.93 | 1.28 Mcps TDD only | YES | reject |
| HS-DSCH Semi-Persistent scheduling Information LCR | 0 | 9.2.3.96 | 1.28 Mcps TDD only | YES | reject |
| E-DCH Semi-Persistent scheduling Information LCR | 0 | 9.2.3.97 | 1.28 Mcps TDD only | YES | reject |
| Idle Interval Information | 0 | 9.2.3.102 | TDD only | YES | ignore |
| UE Selected MBMS Service Information | O | 9.2.3.104 | This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. | YES | ignore |
| HS-SCCH TPC step size | 0 | 9.2.3.21 | 1.28 Mcps TDD only. This IE is mandatory if DL CCTrCH Information IE and E-DCH Information 1.28Mcps IE are both absent. | YES | ignore |
| DCH Measurement Occasion Information | O | 9.2.3.111 | Applicable for 1.28 Mcps TDD when HS- SCCH(s), E- AGCH(s) or HS-PDSCH are configured on TS0. | YES | reject |
| HS-DSCH-RNTI for FACH | 0 | HS-DSCH- RNTI 9.2.1.31J | 1.28 Mcps TDD only | YES | ignore |

| Range Bound | Explanation |
|-------------|------------------------------|
| maxnoCCTrCH | Number of CCTrCHs for one UE |

| Condition | Explanation | | | |
|------------|---|--|--|--|
| InfoHSDSCH | The IF shall be present if HS-DSCH Information IF is present. | | | |

9.1.37 RADIO LINK SETUP RESPONSE

9.1.37.1 FDD message

| IE/Group Name | Presence | Range | IE Type and | Semantics | Criticality | Assigned Criticality |
|---|----------|----------------------------------|--|--|-------------|----------------------|
| | | | Reference | Description | | Criticality |
| Message Discriminator | М | | 9.2.1.45 | | - | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| Communication Control Port ID | М | | 9.2.1.15 | | YES | ignore |
| RL Information Response | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | M | 1 | 9.2.1.53 | | _ | |
| >RL Set ID | M | | 9.2.2.39 | | _ | |
| >Received Total Wide Band Power | M | | 9.2.2.39A | | _ | |
| >CHOICE Diversity Indication | M | | | | _ | |
| >>Combining | | | | | | |
| >>>RL ID | M | | 9.2.1.53 | Reference RL ID for the combining | _ | |
| >>Non Combining or First RL | | | | | | |
| >>>DCH Information Response | M | | 9.2.1.20C | | _ | |
| >>>E-DCH FDD Information Response | 0 | | 9.2.2.13Db | | YES | ignore |
| >Not Used | 0 | | NULL | | _ | |
| >SSDT Support Indicator | М | | 9.2.2.46 | | _ | |
| >DL Power Balancing Activation Indicator | 0 | | 9.2.2.12C | | YES | ignore |
| >E-DCH RL Set ID | 0 | | RL Set ID 9.2.2.39 | | YES | ignore |
| >E-DCH FDD DL Control Channel Information | 0 | | 9.2.2.13Dc | | YES | ignore |
| >Initial DL DPCH Timing Adjustment | 0 | | DL DPCH Timing Adjustment 9.2.2.10A | | YES | ignore |
| > HS-DSCH Preconfiguration Info | 0 | | 9.2.2.111 | | YES | ignore |
| >Non-Serving RL Preconfiguration Info | 0 | | 9.2.2.145 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| HS-DSCH Information Response | 0 | | HS-DSCH FDD Information Response 9.2.2.18E | | YES | ignore |
| Continuous Packet | 0 | | 9.2.2.69 | | YES | ignore |

| Connectivity HS-SCCH less Information Response | | | | | | |
|---|---|--|-------------------|---|------|--------|
| Additional HS Cell Information Response | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | ignore |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | ı | |
| >HS-DSCH FDD Secondary Serving Information Response | М | | 9.2.2.18EA | | - | |
| Additional E-DCH Cell Information Response | | 0 <maxno ofEDCH-1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release | EACH | ignore |
| >Additional E-DCH FDD Information Response | M | | 9.2.2.135 | | - | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.37.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|---|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | М | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| Communication Control Port ID | M | | 9.2.1.15 | | YES | ignore |
| RL Information Response | | 01 | | Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD. | YES | ignore |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >UL Time Slot ISCP Info | М | | 9.2.3.26D | | - | |
| >UL PhysCH SF Variation | M | | 9.2.3.26B | | _ | |
| >DCH Information Response | 0 | | 9.2.1.20C | | YES | ignore |
| >DSCH Information Response | 0 | | 9.2.3.5b | | YES | ignore |
| >USCH Information Response | 0 | | 9.2.3.29 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| RL Information Response LCR | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | ignore |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >UL Time Slot ISCP Info LCR | M | | 9.2.3.26F | | - | |
| >UL PhysCH SF Variation | М | | 9.2.3.26B | | _ | |
| >DCH Information Response | 0 | | 9.2.1.20C | | YES | ignore |
| >DSCH Information Response | 0 | | 9.2.3.5b | | YES | ignore |
| >USCH Information Response | 0 | | 9.2.3.29 | | YES | ignore |
| HS-DSCH Information Response | 0 | | HS-DSCH TDD Information Response 9.2.3.5G | | YES | ignore |
| E-DCH Information Response | 0 | | E-DCH TDD Information Response 9.2.3.50 | | YES | ignore |
| Continuous Packet Connectivity DRX Information Response LCR | 0 | | 9.2.3.95 | 1.28 Mcps TDD only | YES | ignore |

| HS-DSCH Semi-Persistent scheduling Information Response LCR | 0 | 9.2.3.98 | 1.28 Mcps TDD only | YES | ignore |
|---|---|--------------------|--------------------|-----|--------|
| E-DCH Semi-Persistent scheduling Information Response LCR | 0 | 9.2.3.99 | 1.28 Mcps TDD only | YES | ignore |
| E-RNTI for FACH | 0 | E-RNTI 9.2.1.75 | 1.28 Mcps TDD only | YES | ignore |

9.1.38 RADIO LINK SETUP FAILURE

9.1.38.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|-----------|---|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | - | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Node B Communication Context ID | C-Success | | 9.2.1.48 | The reserved value "All NBCC' shall not be used | YES | ignore |
| Communication Control Port ID | 0 | | 9.2.1.15 | | YES | ignore |
| CHOICE Cause Level | M | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | M | | 9.2.1.6 | | _ | |
| >RL Specific | | | | | | |
| >>Unsuccessful RL | | 1 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<> | | | EACH | ignore |
| Information Response | | ofRLs> | | | | |
| >>>RL ID | M | | 9.2.1.53 | | _ | |
| >>>Cause | M | | 9.2.1.6 | | _ | |
| >>Successful RL Information Response | | 0 <maxno ofRLs></maxno | | Note: There will never be maxnoofRLs repetitions of this sequence. | EACH | ignore |
| >>>RL ID | M | | 9.2.1.53 | | _ | |
| >>>RL Set ID | M | | 9.2.2.39 | | _ | |
| >>>Received Total Wide Band Power | M | | 9.2.2.39A | | _ | |
| >>>CHOICE Diversity Indication | М | | | | _ | |
| >>>Combining | | | | | | |
| >>>>RL ID | M | | 9.2.1.53 | Reference RL ID for the combining | _ | |
| >>>Non Combining or First RL | | | | | | |
| >>>>DCH Information Response | M | | 9.2.1.20C | | _ | |
| >>>>E-DCH FDD Information Response | 0 | | 9.2.2.13Db | | YES | ignore |
| >>>Not Used | 0 | | NULL | | - | |
| >>>Not Used | 0 | | NULL | | - | |
| >>>SSDT Support Indicator | М | | 9.2.2.46 | | _ | |
| >>>DL Power Balancing Activation Indicator | 0 | | 9.2.2.12C | | YES | ignore |
| >>>E-DCH RL Set ID | 0 | | RL Set ID 9.2.2.39 | | YES | ignore |
| >>>E-DCH FDD DL | 0 | | 9.2.2.13Dc | | YES | ignore |

| Control Channel Information | | | | | | |
|--|---|--|--|---|------|--------|
| >>>Initial DL DPCH Timing Adjustment | 0 | | DL DPCH Timing Adjustment 9.2.2.10A | | YES | ignore |
| >>> HS-DSCH Preconfiguration Info | 0 | | 9.2.2.111 | | YES | ignore |
| >>>Non-Serving RL Preconfiguration Info | 0 | | 9.2.2.145 | | YES | ignore |
| >>HS-DSCH Information Response | 0 | | HS-DSCH FDD Information Response 9.2.2.18E | | YES | ignore |
| >>Continuous Packet Connectivity HS-SCCH less Information Response | 0 | | 9.2.2.69 | | YES | ignore |
| >>Additional HS Cell Information Response | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | ignore |
| >>>HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | _ | |
| >>>HS-DSCH FDD Secondary Serving Information Response | М | | 9.2.2.18EA | | - | |
| >>Additional E-DCH Cell Information Response | | 0 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release | EACH | ignore |
| >>>Additional E-DCH FDD Information Response | M | | 9.2.2.135 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

| Condition | Explanation |
|-----------|---|
| Success | The IE shall be present if at least one of the radio links has been |
| | successfully set up. |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.38.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------------|--|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| CHOICE Cause Level | M | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | M | | 9.2.1.6 | | _ | |
| >RL Specific | | | | | | |
| >>Unsuccessful RL Information Response | | 1 | | | YES | ignore |
| >>>RL ID | M | | 9.2.1.53 | | _ | |
| >>>Cause | M | | 9.2.1.6 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.39 RADIO LINK ADDITION REQUEST

9.1.39.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|------------------------------------|--|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| Compressed Mode Deactivation Flag | 0 | | 9.2.2.3A | | YES | reject |
| RL Information | | 1 <maxno ofRLs-1></maxno | | | EACH | notify |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >C-ID | M | | 9.2.1.9 | | _ | |
| >Frame Offset | M | | 9.2.1.31 | | _ | |
| >Chip Offset | М | | 9.2.2.2 | | _ | |
| >Diversity Control Field | М | | 9.2.1.25 | | _ | |
| >DL Code Information | M | | FDD DL Code Information 9.2.2.14A | | - | |
| >Initial DL Transmission Power | 0 | | DL Power 9.2.1.21 | Initial power on DPCH or on F-DPCH | - | |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on DPCH or on F-DPCH | _ | |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | Minimum allowed power on DPCH or on F-DPCH | - | |
| >Not Used | 0 | | NULL | | _ | |
| >Transmit Diversity Indicator | 0 | | 9.2.2.53 | | _ | |
| >DL Reference Power | 0 | | DL power 9.2.1.21 | Power on DPCH or on F-DPCH | YES | ignore |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |
| >Delayed Activation | 0 | | 9.2.1.24C | | YES | reject |
| >E-DCH RL Indication | 0 | | 9.2.2.13De | | YES | reject |
| >RL Specific E-DCH Information | 0 | | 9.2.2.39a | | YES | ignore |
| >Synchronisation Indicator | 0 | | 9.2.2.48A | | YES | ignore |
| >F-DPCH Slot Format | 0 | | 9.2.2.93 | | YES | reject |
| >HS-DSCH | 0 | | 9.2.2.112 | | YES | ignore |
| Preconfiguration Setup >Non-Serving RL | 0 | | 9.2.2.144 | | YES | Ignore |
| Preconfiguration Setup Initial DL DPCH Timing | 0 | | 9.2.2.18K | | YES | ignore |
| Adjustment Allowed | | - | 0.2.2.40D | | YES | rojost |
| Serving E-DCH RL Serving Cell Change CFN | 0 | | 9.2.2.48B CFN 9.2.1.7 | | YES | reject reject |
| HS-DSCH Serving Cell | 0 | † | 9.2.2.18Eb | 1 | YES | reject |
| | 1 - | <u> </u> | | 1 | · | . 5,500 |

| Change Information | | | | | | |
|---------------------------|----------|--|------------|---------------------------------|------|---------|
| E-DPCH Information | | 01 | | | YES | reject |
| >Maximum Set of E- | M | | 9.2.2.20C | | | . 0,000 |
| DPDCHs | | | 0.2.2.20 | | | |
| >Puncture Limit | М | | 9.2.1.50 | | ı | |
| >E-TFCS Information | M | | 9.2.2.13Dh | | - | |
| >E-TTI | M | | 9.2.2.13Di | | _ | |
| >E-DPCCH Power Offset | М | | 9.2.2.13Dj | | - | |
| >E-RGCH 2-Index-Step | М | | 9.2.2.13lg | | _ | |
| Threshold | | | | | | |
| >E-RGCH 3-Index-Step | М | | 9.2.2.13lh | | _ | |
| Threshold | | | | | | |
| >HARQ Info for E-DCH | М | | 9.2.2.18ba | | - | |
| >HS-DSCH Configured | M | | 9.2.2.18Ca | | YES | reject |
| Indicator | | | | | | |
| > Minimum Reduced E- | 0 | | 9.2.2.114 | | YES | ignore |
| DPDCH Gain Factor | | | | | | |
| E-DCH FDD Information | C- | | 9.2.2.13Da | | YES | reject |
| | EDPCHInf | | | | | |
| A 1 11/2 | 0 | 0 | | For occasion | EACH | no:+ |
| Additional HS Cell | | 0 <maxno ofHSDSC</maxno | | For secondary serving HS- | EACH | reject |
| Information RL Addition | | H-1> | | DSCH cell. Max | | |
| | | | | 1 in this 3GPP | | |
| | | | | release. | | |
| >HS-PDSCH RL ID | М | | RL ID | | _ | |
| | 8.4 | | 9.2.1.53 | | | |
| >C-ID | M | | 9.2.1.9 | | _ | |
| >HS-DSCH FDD Secondary | M | | 9.2.2.18Da | | _ | |
| Serving Information | | | 0.04.400 | | \/50 | |
| UE Aggregate Maximum Bit | 0 | | 9.2.1.123 | | YES | ignore |
| Rate Additional E-DCHCell | | 01 | | For E-DCH on | YES | reject |
| Information RL Add Req | | 01 | | multiple | 123 | reject |
| mormation (12) tau (10) | | | | frequencies in | | |
| | | | | this Node B. | | |
| >CHOICE Setup Or | M | | | | _ | |
| Addition Of E-DCH On | | | | | | |
| Secondary UL Frequency | | | | | | |
| >>Setup | | | | Used when the | _ | |
| | | | | secondary UL | | |
| | | | | frequency does | | |
| | | | | not exist or is | | |
| | | | | not configured with E-DCH in | | |
| | | | | the current | | |
| | | | | Node B | | |
| | | | | Communication | | |
| | | | | Context | | |
| >>>Multicell E-DCH | М | _ | 9.2.2.130 | | | |
| Transport Bearer Mode | | | | | | |
| >>>Additional E-DCH | | 1 <maxno< td=""><td></td><td>E-DCH on</td><td>_</td><td></td></maxno<> | | E-DCH on | _ | |
| Cell Information Setup | | ofEDCH- | | Secondary | | |
| | | 1> | | uplink frequency - | | |
| | | 1 | | max 1 in this | | |
| | | 1 | | 3GPP release. | | |
| >>>>Additional E- | M | | 9.2.2.131 | | _ | |
| DCH FDD Setup | | | | | | |
| Information | | ļ | | | | |
| >>Addition | | 1 | | Used when | _ | |
| | | 1 | | there exist additional E- | | |
| | | | | DCH RLs in the | | |
| | ļ | 1 | <u> </u> | DOLLIVES III (III) | | |

| | | | | current Node B Communication Context | | |
|--|---|--|-----------|--|-----|--------|
| >>>Additional E-DCH Cell Information Addition | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | - | |
| >>>>Additional E- DCH RL Specific Information To Add | M | | 9.2.2.133 | | _ | |
| >>>Additional E- DCH FDD Information | 0 | | 9.2.2.137 | | _ | |
| >>>>Multicell E-DCH Information | 0 | | 9.2.2.140 | | YES | ignore |

| Condition | Explanation | | | | |
|-----------|--|--|--|--|--|
| EDPCHInfo | This IE shall be present if <i>E-DPCH Information</i> IE is present. | | | | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.39.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---------------------------------------|----------|-----------------------------------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | , |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| UL CCTrCH Information | | 0 <maxno CCTrCH></maxno | | | GLOBAL | reject |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| >UL DPCH Information | | 01 | | Applicable to 3.84Mcps TDD only | YES | notify |
| >>Repetition Period | М | | 9.2.3.16 | | - | |
| >>Repetition Length | M | | 9.2.3.15 | | | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | | |
| >>UL Timeslot Information | М | | 9.2.3.26C | | _ | |
| >UL DPCH Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | notify |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>UL Timeslot Information LCR | М | | 9.2.3.26E | | - | |
| >TDD TPC UL Step Size | 0 | | 9.2.3.21a | Applicable to 1.28Mcps TDD only | YES | reject |
| >UL DPCH Information 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | notify |
| >>Repetition Period | M | | 9.2.3.16 | | - | |
| >>Repetition Length | M | | 9.2.3.15 | | - | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | - | |
| >>UL Timeslot Information 7.68Mcps | М | | 9.2.3.38 | | _ | |
| DL CCTrCH Information | | 0 <maxno CCTrCH></maxno | | | GLOBAL | reject |
| >CCTrCH ID | M | | 9.2.3.3 | | - | |
| >DL DPCH information | | 01 | | Applicable to 3.84Mcps TDD only | YES | notify |
| >>Repetition Period | M | | 9.2.3.16 | | ı | |
| >>Repetition Length | M | | 9.2.3.15 | | | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>DL Timeslot Information | М | | 9.2.3.4E | | _ | |
| >DL DPCH information | | 01 | | Applicable to | YES | notify |
| LCR | | J / | | 1.28Mcps TDD only | 120 | noury |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | M | | 9.2.3.15 | | | |
| >>TDD DPCH Offset | M | | 9.2.3.19A | | | |
| >>DL Timeslot Information LCR | М | | 9.2.3.40 | | _ | |
| >CCTrCH Initial DL | 0 | | DL Power | | YES | ignore |

| Transmission Power | | | 9.2.1.21 | | | |
|---------------------------------------|---------------------------|----|---|--|-----|--------|
| >TDD TPC DL Step Size | 0 | | 9.2.3.21 | | YES | reject |
| >CCTrCH Maximum DL | 0 | | DL Power | | YES | ignore |
| Transmission Power | | | 9.2.1.21 | | 120 | ignore |
| >CCTrCH Minimum DL | 0 | | DL Power | | YES | ignore |
| Transmission Power | | | 9.2.1.21 | | | - |
| >DL DPCH information | | 01 | | Applicable to | YES | notify |
| 7.68Mcps | | | | 7.68Mcps TDD | | |
| >> Popotition Poriod | M | | 9.2.3.16 | only | _ | |
| >>Repetition Period | M | | 9.2.3.15 | | _ | |
| >>Repetition Length >>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>DL Timeslot | M | | 9.2.3.39 | | | |
| | IVI | | 9.2.5.55 | | _ | |
| Information 7.68Mcps RL Information | | 1 | | | YES | reject |
| | M | ' | 9.2.1.53 | | 120 | reject |
| >RL ID | M | | 9.2.1.9 | | | |
| >C-ID | M | | 9.2.1.31 | | | |
| >Frame Offset | M | | 9.2.1.25 | | | |
| >Diversity Control Field | 0 | | _ | | _ | |
| >Initial DL Transmission | | | DL Power 9.2.1.21 | | _ | |
| Power | 0 | | DL Power | | | |
| >Maximum DL Power | | | 9.2.1.21 | | _ | |
| >Minimum DL Power | 0 | | DL Power | | 1 | |
| | _ | | 9.2.1.21 | | | |
| >DL Time Slot ISCP Info | 0 | | 9.2.3.4F | Applicable to 3.84Mcps TDD and 7.68Mcps TDD only | - | |
| >DL Time Slot ISCP Info LCR | 0 | | 9.2.3.4P | Applicable to 1.28Mcps TDD only | YES | reject |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |
| >Delayed Activation | 0 | | 9.2.1.24C | | YES | reject |
| >UL Synchronisation | | 01 | | Mandatory for | YES | reject |
| Parameters LCR | | | | 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | | , |
| >>Uplink Synchronisation | М | | 9.2.3.26H | | _ | |
| Step Size | | | 0.0000 | | | |
| >>Uplink Synchronisation | М | | 9.2.3.26G | | _ | |
| Frequency >UARFCN | 0 | | 9.2.1.65 | Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (TS 25.105 [15]). | YES | reject |
| HS-DSCH Information | 0 | | HS-DSCH TDD Information 9.2.3.5F | | YES | reject |
| HS-DSCH-RNTI | C- HSDSCH RadioLink | | 9.2.1.31J | | YES | reject |
| HS-PDSCH RL ID | 0 | | RL ID 9.2.1.53 | | YES | reject |
| E-DCH Information | | 01 | | 3.84Mcps TDD only | YES | reject |
| | è | • | • | | | è |

| E DUOLLIstansation | L N 4 | 1 | 0.00.45 | | | |
|------------------------------|--|----|-----------|-----------------|------|---------|
| >E-PUCH Information | M | | 9.2.3.45 | | _ | |
| >E-TFCS Information TDD | M | 1 | 9.2.3.46 | | | |
| >E-DCH MAC-d Flows | M | | 9.2.3.47 | | _ | |
| Information TDD | | | | | | |
| >E-DCH Non-scheduled | 0 | | 9.2.3.48 | | | |
| Grant Information TDD | | | | | | |
| >E-DCH TDD Information | М | | 9.2.3.49 | | _ | |
| E-DCH Serving RL | 0 | | 9.2.1.53 | | YES | reject |
| E-DCH Information | | 01 | 0.200 | 7.68Mcps TDD | YES | reject |
| 7.68Mcps | | 01 | | only | 120 | 10,000 |
| >E-PUCH Information | М | | 9.2.3.45 | Offiny | _ | |
| >E-TFCS Information TDD | M | | 9.2.3.46 | | | |
| | | | | | | |
| >E-DCH MAC-d Flows | M | | 9.2.3.47 | | _ | |
| Information TDD | | | | | | |
| >E-DCH Non-scheduled | 0 | | 9.2.3.64 | | _ | |
| Grant Information 7.68Mcps | | | | | | |
| TDD | | | | | | |
| >E-DCH TDD Information | M | | 9.2.3.65 | | _ | |
| 7.68Mcps | | | | | | |
| E-DCH Information | | 01 | | 1.28Mcps TDD | YES | reject |
| 1.28Mcps | | | | only | | • |
| >E-PUCH Information LCR | М | | 9.2.3.45a | | _ | |
| >E-TFCS Information TDD | M | | 9.2.3.46 | | _ | |
| >E-DCH MAC-d Flows | M | | 9.2.3.47 | | | |
| Information TDD | IVI | | 3.2.3.41 | | _ | |
| >E-DCH Non-scheduled | 0 | | 0.2.2.400 | + | | |
| | | | 9.2.3.48a | | _ | |
| Grant Information LCR TDD | | | | | | |
| >E-DCH TDD Information | M | | 9.2.3.49a | | _ | |
| LCR | | | | | | |
| Power Control GAP | 0 | | INTEGER | Unit: Number of | YES | ignore |
| | | | (1255) | subframes | | |
| | | | | Applicable to | | |
| | | | | 1.28Mcps TDD | | |
| | | | | only | | |
| Continuous Packet | 0 | | 9.2.3.93 | 1.28 Mcps TDD | YES | reject |
| Connectivity DRX Information | | | 0.2.0.00 | only | 120 | 10,000 |
| LCR | | | | Offiny | | |
| HS-DSCH Semi-Persistent | | + | 0.2.2.00 | 1 20 Mars TDD | VEC | rois st |
| | 0 | | 9.2.3.96 | 1.28 Mcps TDD | YES | reject |
| scheduling Information LCR | <u> </u> | | | only | \ | |
| E-DCH Semi-Persistent | 0 | | 9.2.3.97 | 1.28 Mcps TDD | YES | reject |
| scheduling Information LCR | | | | only | | |
| Idle Interval Information | 0 | | 9.2.3.102 | TDD only | YES | ignore |
| UE Selected MBMS Service | 0 | | 9.2.3.104 | This IE | YES | ignore |
| Information | | | | indicates the | = | 5 |
| | | | | Time Slot | | |
| | | | | information | | |
| | | | | | | |
| | | | | and/or TDM | | |
| | | | | information of | | |
| | | | | UE selected | | |
| | | | | MBMS service | | |
| | | | | in the other | | |
| | | | | frequency. For | | |
| | | | | 1.28Mcps TDD | | |
| | | | | only. | | |
| HS-SCCH TPC step size | 0 | | 9.2.3.21 | 1.28 Mcps TDD | YES | ignore |
| 3 3 3 7 7 7 3 5 top 3 12 0 | | | 5.2.5.21 | only. | . 25 | .9.10.0 |
| | | | | This IE is | | |
| | | | | | | |
| | | | | mandatory if DL | | |
| | | | | CCTrCH | | |
| | | | | Information IE | | |
| | | | | and E-DCH | | |
| | | | | Information | | |
| | | | | 1.28Mcps IE | | |
| | | | | are both | | |
| | | | | absent. | | |
| DCH Measurement Occasion | 0 | | 9.2.3.111 | Applicable for | YES | reject |
| Information | | | 3.2.3 | 1.28 Mcps TDD | 0 | . 5,550 |
| momation | <u> </u> | 1 | 1 | 1.20 Niopo 100 | | |

| when HS- SCCH(s), E- AGCH(s) or HS-PDSCH are | |
|---|--|
| configured on | |
| TS0. | |

| Range Bound | Explanation |
|-------------|-----------------------------|
| maxnoCCTrCH | Number of CCTrCH for one UE |

| Condition | Explanation |
|-----------------|---|
| HSDSCHRadioLink | The IE shall be present if HS-PDSCH RL ID IE is present |

9.1.40 RADIO LINK ADDITION RESPONSE

9.1.40.1 FDD message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|--|--|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | - | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| RL Information Response | | 1 <maxno ofRLs-1></maxno | | | EACH | ignore |
| >RL ID | M | | 9.2.1.53 | | ı | |
| >RL Set ID | М | | 9.2.2.39 | | 1 | |
| >Received Total Wide Band Power | M | | 9.2.2.39A | | _ | |
| >CHOICE Diversity Indication | M | | | | _ | |
| >>Combining | | | | | | |
| >>>RL ID | М | | 9.2.1.53 | Reference RL | _ | |
| >>>E-DCH FDD Information Response | 0 | | 9.2.2.13Db | | YES | ignore |
| >>Non Combining | M | | 9.2.1.20C | | | |
| >>>DCH Information Response | | | | | _ | |
| >>>E-DCH FDD Information Response | 0 | | 9.2.2.13Db | | YES | ignore |
| >SSDT Support Indicator | М | | 9.2.2.46 | | _ | |
| >DL Power Balancing Activation Indicator | 0 | | 9.2.2.12C | | YES | ignore |
| >E-DCH RL Set ID | 0 | | RL Set ID 9.2.2.39 | | YES | ignore |
| >E-DCH FDD DL Control Channel Information | 0 | | 9.2.2.13Dc | | YES | ignore |
| >Initial DL DPCH Timing Adjustment | 0 | | DL DPCH Timing Adjustment 9.2.2.10A | | YES | ignore |
| > HS-DSCH Preconfiguration Info | 0 | | 9.2.2.111 | | YES | ignore |
| >Non-Serving RL Preconfiguration Info | 0 | | 9.2.2.145 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| HS-DSCH Serving Cell Change Information Response | 0 | | 9.2.2.18Ec | | YES | ignore |
| E-DCH Serving Cell Change Information Response | 0 | | 9.2.2.18Ed | | YES | ignore |
| MAC-hs Reset Indicator | 0 | | 9.2.1.38Ac | | YES | ignore |
| Additional HS Cell Change Information Response | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | ignore |
| >HS-PDSCH RL ID | M | | RL ID 9.2.1.53 | | _ | |

| >HS-DSCH Secondary Serving Cell Change Information Response | М | | 9.2.2.18Eca | | - | |
|---|---|--|--|--|------|--------|
| Additional E-DCH Cell Information Response RL Add | | 0 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | EACH | ignore |
| > Additional E-DCH FDD Information Response | 0 | | 9.2.2.135 | | - | |
| >Additional E-DCH Serving Cell Change Information Response | 0 | | E-DCH Serving Cell Change Information Response 9.2.2.18Ed | | - | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.40.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--------------------------------------|----------|-------|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| RL Information Response | | 01 | | Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD. | YES | ignore |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >UL Time Slot ISCP Info | M | | 9.2.3.26D | | _ | |
| >UL PhysCH SF Variation | M | | 9.2.3.26B | | _ | |
| >DCH Information | | 01 | | | _ | |
| >>CHOICE Diversity Indication | М | | | | _ | |
| >>>Combining | | | | Indicates whether the old Transport Bearer shall be reused or not | | |
| >>>>RL ID | M | | 9.2.1.53 | Reference RL | _ | |
| >>>Non Combining | | | | | | |
| >>>DCH Information Response | M | | 9.2.1.20C | | _ | |
| >DSCH Information Response | 0 | | 9.2.3.5b | | YES | ignore |
| >USCH Information Response | 0 | | 9.2.3.29 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| RL Information Response LCR | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | ignore |
| >RL ID | М | | 9.2.1.53 | • | _ | |
| >UL Time Slot ISCP Info LCR | М | | 9.2.3.26F | | _ | |
| >UL PhysCH SF Variation | M | | 9.2.3.26B | | _ | |
| >DCH Information | | 01 | | | _ | |
| >>CHOICE Diversity indication | М | | | | _ | |
| >>>Combining | | | | Indicates whether the old Transport Bearer shall be reused or not | | |
| >>>RL ID | M | | 9.2.1.53 | Reference RL | _ | |
| >>>Non Combining >>>>DCH Information | M | | 9.2.1.20C | | _ | |
| Response | | | | | 7/50 | : |
| >DSCH Information Response | 0 | | 9.2.3.5b | | YES | ignore |

| >USCH Information Response | 0 | 9.2.3.29 | | YES | ignore |
|---|---|---|--------------------|-----|--------|
| HS-DSCH Information Response | 0 | HS-DSCH TDD Information Response 9.2.3.5G | | YES | ignore |
| E-DCH Information Response | 0 | E-DCH TDD Information Response 9.2.3.50 | | YES | ignore |
| Continuous Packet Connectivity DRX Information Response LCR | 0 | 9.2.3.95 | 1.28 Mcps TDD only | YES | ignore |
| HS-DSCH Semi-Persistent scheduling Information Response LCR | 0 | 9.2.3.98 | 1.28 Mcps TDD only | YES | ignore |
| E-DCH Semi-Persistent scheduling Information Response LCR | 0 | 9.2.3.99 | 1.28 Mcps TDD only | YES | ignore |

9.1.41 RADIO LINK ADDITION FAILURE

9.1.41.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|------------------------------------|--|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | - | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| CHOICE Cause Level | М | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | M | | 9.2.1.6 | | _ | |
| >RL Specific | | | | | | |
| >>Unsuccessful RL Information Response | | 1 <maxno ofRLs-1></maxno | | | EACH | ignore |
| >>>RL ID | M | | 9.2.1.53 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| >>Successful RL Information Response | | 0 <maxno ofRLs-2></maxno | | | EACH | ignore |
| >>>RL ID | М | | 9.2.1.53 | | _ | |
| >>>RL Set ID | M | | 9.2.2.39 | | _ | |
| >>>Received Total | М | | 9.2.2.39A | | _ | |
| Wide Band Power | | | | | | |
| >>>CHOICE Diversity | М | | | | _ | |
| Indication | | | | | | |
| >>>Combining | | | | | | |
| >>>>RL ID | М | | 9.2.1.53 | Reference RL | _ | |
| >>>>E-DCH FDD | 0 | | 9.2.2.13Db | | YES | ignore |
| Information Response | | | | | | ig |
| >>>Non Combining | | | | | | |
| >>>>DCH Information Response | M | | 9.2.1.20C | | _ | |
| >>>>E-DCH FDD Information Response | 0 | | 9.2.2.13Db | | YES | ignore |
| >>>SSDT Support Indicator | М | | 9.2.2.46 | | _ | |
| >>>DL Power Balancing Activation Indicator | 0 | | 9.2.2.12C | | YES | ignore |
| >>>E-DCH RL Set ID | 0 | | RL Set ID 9.2.2.39 | | YES | ignore |
| >>>E-DCH FDD DL Control Channel Information | 0 | | 9.2.2.13Dc | | YES | ignore |
| >>>Initial DL DPCH Timing Adjustment | 0 | | DL DPCH Timing Adjustment 9.2.2.10A | | YES | ignore |
| >>> HS-DSCH Preconfiguration Info | 0 | | 9.2.2.111 | | YES | ignore |
| >>>Non-Serving RL Preconfiguration Info | 0 | | 9.2.2.145 | | YES | ignore |

| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
|---------------------------|---|--|-----------------------|---|------|--------|
| HS-DSCH Serving Cell | 0 | | 9.2.2.18Ec | | YES | ignore |
| Change Information | | | | | | |
| Response | | | | | | |
| E-DCH Serving Cell Change | 0 | | 9.2.2.18Ed | | YES | ignore |
| Information Response | | | | | | |
| Additional HS Cell Change | | 0 <maxno< td=""><td></td><td>For secondary</td><td>EACH</td><td>ignore</td></maxno<> | | For secondary | EACH | ignore |
| Information Response | | ofHSDSC H-1> | | serving HS- DSCH cell. Max 1 in this 3GPP release. | | |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | - | |
| >HS-DSCH Secondary | M | | 9.2.2.18Eca | | - | |
| Serving Cell Change | | | | | | |
| Information Response | | | | | | |
| MAC-hs Reset Indicator | 0 | | 9.2.1.38Ac | | YES | ignore |
| Additional E-DCH Cell | | 0 <maxno< td=""><td></td><td>E-DCH on</td><td>EACH</td><td>ignore</td></maxno<> | | E-DCH on | EACH | ignore |
| Information Response RL | | ofEDCH- 1> | | Secondary | | |
| Add | | 1> | | uplink frequency - | | |
| | | | | max 1 in this | | |
| | | | | 3GPP release | | |
| >Additional E-DCH FDD | 0 | | 9.2.2.135 | | _ | |
| Information Response | | | | | | |
| >Additional E-DCH Serving | 0 | | E-DCH | | 1 | |
| Cell Change Information | | | Serving Cell | | | |
| Response | | | Change Information | | | |
| | | | Response | | | |
| | | | 9.2.2.18Ed | | | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.41.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| CHOICE Cause Level | М | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | М | | 9.2.1.6 | | _ | |
| >RL Specific | | | | | | |
| >>Unsuccessful RL Information Response | | 1 | | | YES | ignore |
| >>>RL ID | М | | 9.2.1.53 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | | · · |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.42 RADIO LINK RECONFIGURATION PREPARE

9.1.42.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|------------------|-------|-----------------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| UL DPCH Information | | 01 | | | YES | reject |
| >UL Scrambling Code | 0 | | 9.2.2.59 | | _ | |
| >UL SIR Target | 0 | | UL SIR 9.2.1.67A | | _ | |
| >Min UL Channelistion Code Length | 0 | | 9.2.2.22 | | _ | |
| >Max Number of UL DPDCHs | C- CodeLen | | 9.2.2.21 | | _ | |
| >Puncture Limit | 0 | | 9.2.1.50 | For UL | - | |
| >TFCS | 0 | | 9.2.1.58 | | - | |
| >UL DPCCH Slot Format | 0 | | 9.2.2.57 | | _ | |
| >Diversity Mode | 0 | | 9.2.2.9 | | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >UL DPDCH Indicator For | 0 | | 9.2.2.61 | | YES | reject |
| E-DCH Operation | | | | | | , |
| DL DPCH Information | | 01 | | | YES | reject |
| >TFCS | 0 | | 9.2.1.58 | | _ | , |
| >DL DPCH Slot Format | 0 | | 9.2.2.10 | | _ | |
| >TFCI Signalling Mode | 0 | | 9.2.2.50 | | _ | |
| >TFCI Presence | C- SlotFormat | | 9.2.1.57 | | _ | |
| >Multiplexing Position | 0 | | 9.2.2.23 | | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >Not Used | 0 | | NULL | | _ | |
| >Limited Power Increase | 0 | | 9.2.2.18A | | _ | |
| >DL DPCH Power Information | | 01 | | | YES | reject |
| >>Power Offset Information | | 1 | | | - | |
| >>>PO1 | М | | Power Offset 9.2.2.29 | Power offset for the TFCI bits | _ | |
| >>>PO2 | М | | Power Offset 9.2.2.29 | Power offset for the TPC bits | _ | |
| >>>PO3 | M | | Power Offset 9.2.2.29 | Power offset for the pilot bits | _ | |
| >>FDD TPC DL Step Size | M | | 9.2.2.16 | | _ | |
| >>Inner Loop DL PC Status | M | | 9.2.2.18B | | _ | |
| DCHs To Modify | 0 | | DCHs FDD To Modify 9.2.2.4E | | YES | reject |
| DCHs To Add | 0 | | DCH FDD Information | | YES | reject |

| | | | 9.2.2.4D | | | |
|--|------------------|-----------------------------------|---|---|--------|--------|
| DCHs To Delete | | 0 <maxno ofDCHs></maxno | | | GLOBAL | reject |
| >DCH ID | M | | 9.2.1.20 | | _ | |
| RL Information | | 0 <maxno ofRLs></maxno | | | EACH | reject |
| >RL ID | М | | 9.2.1.53 | | _ | |
| >DL Code Information | 0 | | FDD DL Code Information 9.2.2.14A | | - | |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on DPCH or on F-DPCH | - | |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | Minimum allowed power on DPCH or on F-DPCH | - | |
| >Not Used | 0 | | NULL | | _ | |
| >Not Used | 0 | | NULL | | | |
| >Transmit Diversity Indicator | C-Diversity mode | | 9.2.2.53 | | _ | |
| >DL Reference Power | 0 | | DL Power 9.2.1.21 | Power on DPCH or on F-DPCH | YES | ignore |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |
| >DL DPCH Timing Adjustment | 0 | | 9.2.2.10A | Required RL Timing Adjustment | YES | reject |
| >Primary CPICH Usage For Channel Estimation | 0 | | 9.2.2.33A | | YES | ignore |
| >Secondary CPICH Information Change | 0 | | 9.2.2.43A | | YES | ignore |
| >E-DCH RL Indication | 0 | | 9.2.2.13De | | YES | reject |
| >RL Specific E-DCH Information | 0 | | 9.2.2.39a | | YES | ignore |
| >F-DPCH Slot Format | 0 | | 9.2.2.93 | | YES | reject |
| >HS-DSCH Preconfiguration Setup | 0 | | 9.2.2.112 | | YES | ignore |
| >Non-Serving RL Preconfiguration Setup | 0 | | 9.2.2.144 | | YES | ignore |
| >Non-Serving RL Preconfiguration Removal | 0 | | Non- Serving RL Preconfigur ation Setup 9.2.2.144 | | YES | ignore |
| Transmission Gap Pattern Sequence Information | 0 | | 9.2.2.53A | | YES | reject |
| Signalling Bearer Request Indicator | 0 | | 9.2.1.55A | | YES | reject |
| HS-DSCH Information | 0 | | HS-DSCH FDD Information 9.2.2.18D | | YES | reject |
| HS-DSCH Information To Modify | 0 | | 9.2.1.31H | | YES | reject |
| HS-DSCH MAC-d Flows To Add | 0 | | HS-DSCH MAC-d Flows Information | | YES | reject |

| | | | 0.2.4.2414 | | | 1 |
|--------------------------------------|-----------|----|----------------------------|------------------|-----|---------|
| LIO DOCUMAC A Flavor Ta | 0 | | 9.2.1.31IA 9.2.1.31IB | | YES | reject |
| HS-DSCH MAC-d Flows To | | | 9.2.1.3110 | | 123 | reject |
| Delete | C- | | 9.2.1.31J | | YES | roject |
| HS-DSCH-RNTI | HSDSCH | | 9.2.1.313 | | TES | reject |
| | RadioLink | | | | | |
| HS-PDSCH RL ID | 0 | | RL ID | | YES | reject |
| | | | 9.2.1.53 | | | - |
| E-DPCH Information | | 01 | | | YES | reject |
| >Maximum Set of E- | 0 | | 9.2.2.20C | | _ | |
| DPDCHs | | | 0.04.50 | | | |
| >Puncture Limit | 0 | | 9.2.1.50 9.2.2.13Dh | | _ | |
| >E-TFCS Information >E-TTI | 0 | | 9.2.2.13Dii 9.2.2.13Dii | | | |
| >E-DPCCH Power Offset | 0 | | 9.2.2.13Dj | | | |
| | 0 | | 9.2.2.13lg | | _ | |
| >E-RGCH 2-Index-Step | | | 3.2.2.13ig | | _ | |
| Threshold | 0 | | 9.2.2.13lh | | _ | |
| >E-RGCH 3-Index-Step | | | 3.2.2.13111 | | _ | |
| Threshold | 0 | | 9.2.2.18ba | | _ | |
| >HARQ Info for E-DCH | 0 | | 9.2.2.18Ca | | | |
| >HS-DSCH Configured | | | 3.2.2.10Ua | | _ | |
| Indicator | 0 | | 9.2.2.114 | | YES | ianoro |
| > Minimum Reduced E- | 0 | | 9.2.2.114 | | YES | ignore |
| DPDCH Gain Factor | 0 | | E DOLL | | YES | unin nt |
| E-DCH FDD Information | 0 | | E-DCH FDD | | YES | reject |
| | | | Information | | | |
| | | | 9.2.2.13Da | | | |
| E-DCH FDD Information To | 0 | | 9.2.2.13Df | | YES | reject |
| Modify | | | | | | |
| E-DCH MAC-d Flows To Add | 0 | | E-DCH | | YES | reject |
| | | | MAC-d | | | |
| | | | Flows | | | |
| | | | Information 9.2.2.13M | | | |
| E-DCH MAC-d Flows To | 0 | | 9.2.1.73 | | YES | reject |
| Delete | | | 3.2.1.73 | | 120 | 10,000 |
| | 0 | | 9.2.2.48B | | YES | reject |
| Serving E-DCH RL F-DPCH Information | | 01 | 3.2.2. 4 0B | | YES | reject |
| | | 1 | | | - | reject |
| >Power Offset Information | | , | | | _ | |
| | M | | Power | This IE shall be | | |
| >>PO2 | IVI | | Offset | ignored by | _ | |
| | | | 9.2.2.29 | Node B. | | |
| >FDD TPC DL Step Size | M | | 9.2.2.16 | | _ | |
| >Limited Power Increase | М | | 9.2.2.18A | | 1 | |
| >Inner Loop DL PC Status | М | | 9.2.2.18B | | _ | |
| Fast Reconfiguration Mode | 0 | | 9.2.2.62 | | YES | ignore |
| CPC Information | | 01 | 0.2.2.02 | | YES | reject |
| >Continuous Packet | 0 | 01 | 9.2.2.66 | | | , |
| Connectivity DTX-DRX | | | 3.2.2.00 | | _ | |
| Information | | | | | | |
| >Continuous Packet | 0 | | 9.2.2.67 | | | |
| Connectivity DTX-DRX | | | 0.2.2.01 | | _ | |
| Information To Modify | | | | | | |
| >Continuous Packet | 0 | | 9.2.2.68 | | | |
| Connectivity HS-SCCH | | | 3.2.2.00 | | _ | |
| less Information | | | | | | |
| >Continuous Packet | 0 | | 0.2.2.604 | | YES | reject |
| | | | 9.2.2.69A | | 113 | reject |
| Connectivity HS-SCCH | | ļ | | | | |

| less Deactivate Indicator | | | | | | |
|--|---|--|-------------------|--|------|--------|
| Additional HS Cell Information RL Reconf Prep | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | reject |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | - | |
| >C-ID | 0 | | 9.2.1.9 | | _ | |
| >HS-DSCH FDD Secondary Serving Information | 0 | | 9.2.2.18Da | | _ | |
| >HS-DSCH FDD Secondary Serving Information To Modify | 0 | | 9.2.2.18EB | | _ | |
| >HS-DSCH Secondary Serving Remove | 0 | | NULL | | - | |
| UE Aggregate Maximum Bit | 0 | | 9.2.1.123 | | YES | ignore |
| Rate Additional E-DCH Cell Information RL Reconf Prep | | 01 | | For E-DCH on multiple frequencies in this Node B. | YES | reject |
| >CHOICE Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency | M | | | | - | |
| >>Setup | | | | Used when RLs on the secondary UL frequency does not exist or is not configured with E-DCH in the current Node B Communication Context | _ | |
| >>> MultiCell E-DCH Transport Bearer Mode | М | | 9.2.2.130 | | _ | |
| >>>Additional E-DCH Cell Information Setup | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | - | |
| >>>>Additional E- DCH FDD Setup Information | М | | 9.2.2.131 | | | |
| >>Configuration Change | | | | Used when RLs with additional E-DCH on the secondary UL frequency exist in the current Node B Communication context and the configuration is modified (adding new RLs or | _ | |

| | | | | modification of existing RLs) | | |
|---|---|--|---------------------------------|--|---|--|
| >>>Additional E-DCH Cell Information Configuration Change | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | _ | |
| >>>> Additional E- DCH Configuration Change Information | M | | 9.2.2.136 | | - | |
| >>Removal | | | | Used when all RLs on the indicated secondary UL frequency is removed. | - | |
| >>>Additional E-DCH Cell Information Removal | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | - | |
| >>>>RL on Secondary UL Frequency | M | | ENUMERA TED (Remove,) | Removal of all RL on secondary UL frequency | _ | |

| Condition | Explanation |
|-------------------|---|
| CodeLen | The IE shall be present if the Min UL Channelisation Code Length IE is |
| | equals to 4. |
| SlotFormat | The IE shall be present if the DL DPCH Slot Format IE is equal to any of |
| | the values from 12 to 16. |
| Diversity mode | The IE shall be present if the <i>Diversity Mode</i> IE is present in the <i>UL</i> |
| | DPCH Information IEand is not set to "none". |
| HSDSCH Radio Link | The IE shall be present if HS-PDSCH RL ID IE is present. |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofDCHs | Maximum number of DCHs for a UE |
| maxnoofRLs | Maximum number of RLs for a UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.42.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|---|---------------------|--|-------------|----------------------|
| | | | Reference | - | | _ |
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| UL CCTrCH To Add | | 0 <maxno ofCCTrCH s></maxno | | | GLOBAL | reject |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| >TFCS | М | | 9.2.1.58 | | _ | |
| >TFCI Coding | М | | 9.2.3.22 | | _ | |
| >Puncture Limit | М | | 9.2.1.50 | | _ | |
| >UL DPCH To Add Per RL | | 0 <maxno ofRLs></maxno | | See note 1 below | _ | |
| >>UL DPCH Information | | 01 | | Applicable to 3.84Mcps TDD only | YES | reject |
| >>>Repetition Period | М | | 9.2.3.16 | | | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>UL Timeslot | М | | 9.2.3.26C | | _ | |
| Information | | | | | | |
| >>UL DPCH Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | reject |
| >>>Repetition Period | М | | 9.2.3.16 | , | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>UL Timeslot | М | | 9.2.3.26E | | _ | |
| Information LCR | | | | | | |
| >>UL SIR Target | 0 | | UL SIR 9.2.1.67A | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD | YES | reject |
| >>TDD TPC UL Step Size | 0 | | 9.2.3.21a | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >>RL ID | 0 | | 9.2.1.53 | | YES | ignore |
| >>UL DPCH Information 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | reject |
| >>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>>UL Timeslot | M | 1 | 9.2.3.38 | 1 | _ | |
| Information 7.68Mcps | | | | | | |
| UL CCTrCH To Modify | | 0 <maxno ofCCTrCH s></maxno | | | GLOBAL | reject |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| , 551101110 | l | I | · | L | l | 1 |

| STFCI Coding | TEOO | 0 | 1 | 9.2.1.58 | | | |
|--|-----------------------------------|---|---|-----------|---------------|--------|--------|
| Separation Sep | | _ | | | | _ | |
| DPCH To Modify Per NL | | | | | | _ | |
| No. Sepetition Period No. No | | 0 | 0 4 2 2 2 2 2 | 9.2.1.50 | Soo noto 1 | _ | |
| Section Sect | _ | | ofRLs> | | below | _ | |
| >>>Repetition Period M 9.2.3.16 - | >>UL DPCH To Add | | 01 | | 3.84Mcps TDD | YES | reject |
| >>>Repetition Length | >>>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>>TDD DPCH Offset M | • | М | | 9.2.3.15 | | _ | |
| Information SJUL DPCH To Modify D.1 System Syst | | М | | 9.2.3.19A | | _ | |
| Sout DPCH To Modify South Sout | | М | | 9.2.3.26C | | _ | |
| Some partition period O | | | 01 | | | YES | reject |
| Source S | | 0 | | 9.2.3.16 | | _ | , |
| Solution Solution | | 0 | | | | _ | |
| Name | | | | | | _ | |
| Information | | | 0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<> | | Applicable to | _ | |
| No. No. | | | | | 3.84Mcps TDD | | |
| And Burst Type >>>>TFCI Presence O | >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| System S | | 0 | | 9.2.3.7 | | _ | |
| Note | | 0 | | 9.2.1.57 | | _ | |
| Information | | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Sysystation Code | | | ofDPCHs> | | | | |
| Section Sect | | М | | 9.2.3.5 | | _ | |
| Channelisation Code | | 0 | | 9.2.3.19 | | _ | |
| Name | | | | | | | |
| Note | >>>UL Timeslot | | ofULtsLCR | | 1.28Mcps TDD | GLOBAL | reject |
| Note | >>>>Time Slot LCR | М | | 9.2.3.24A | Office | _ | |
| System S | >>>Midamble Shift | | | | | | |
| No. No. | | 0 | | 9.2.1.57 | | _ | |
| No. | >>>UL Code | | ofDPCHsL | 0.2 | | - | |
| No. No. | >>>>DPCH ID | М | 0,12 | 9.2.3.5 | | _ | |
| >>>>TDD UL DPCH Time Slot Format LCR O 9.2.3.21C YES reject >>>PLCCH Information O 9.2.3.31 YES reject >>>UL Timeslot Information 7.68Mcps O <maxno of ULts> Applicable to 7.68Mcps TDD only GLOBAL Feiglet reject >>>>Time Slot And Burst Type 7.68Mcps M 9.2.3.23 — >>>>TFCI Presence Information 7.68Mcps O 9.2.1.57 —</maxno | >>>>TDD Channelisation Code | | | | | - | |
| Information | >>>>TDD UL DPCH Time Slot | 0 | | 9.2.3.21C | | YES | reject |
| >>>UL Timeslot Information 7.68Mcps 0 <maxno ofULts> Applicable to 7.68Mcps TDD only GLOBAL reject >>>>Time Slot M 9.2.3.23 - >>>>Midamble Shift And Burst Type 7.68Mcps O 9.2.3.35 - >>>>TFCI Presence O 9.2.1.57 - >>>>UL Code Information 7.68Mcps 0<maxno ofDPCHs> -</maxno </maxno | | 0 | | 9.2.3.31 | | YES | reject |
| >>>>Time Slot | >>>UL Timeslot | | | | 7.68Mcps TDD | GLOBAL | reject |
| >>>>Midamble Shift And Burst Type 7.68Mcps >>>>TFCI Presence O 9.2.1.57 - >>>>UL Code Information 7.68Mcps O 9.2.1.57 - O <maxno dpchs="" of=""> 7.68Mcps</maxno> | >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>>TFCI Presence O 9.2.1.57 — >>>>UL Code 0 <maxno dpchs="" of=""> 7.68Mcps</maxno> | >>>>Midamble Shift And Burst Type | 0 | | 9.2.3.35 | | - | |
| >>>UL Code | • | | | | | | |
| Information of DPCHs> 7.68Mcps | | U | 1 | 9.2.1.57 | | _ | |
| | Information | | | | | _ | |
| | >>>>DPCH ID | M | + | 9.2.3.5 | | _ | |

| | | 1 | 00004 | | | |
|------------------------------|---|---|---------------------|---|----------|--------|
| >>>>TDD | 0 | | 9.2.3.34 | | _ | |
| Channelisation Code | | | | | | |
| 7.68Mcps | | 0 | | | CLODAL | it |
| >>UL DPCH To Delete | | 0 <maxno ofDPCHs></maxno | | | GLOBAL | reject |
| >>>DPCH ID | М | 0.2. 00 | 9.2.3.5 | | _ | |
| >>UL DPCH To Add LCR | | 01 | | Applicable to | YES | reject |
| 77 02 27 077 773 2077 | | | | 1.28Mcps TDD only | | · |
| >>>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | M | | 9.2.3.19A | | _ | |
| >>>UL Timeslot | M | | 9.2.3.26E | | _ | |
| Information LCR | | | | | | |
| >>UL SIR Target | 0 | | UL SIR 9.2.1.67A | Applicable to 1.28Mcps TDD only | YES | reject |
| >>TDD TPC UL Step Size | 0 | | 9.2.3.21a | Applicable to 1.28Mcps TDD only | YES | reject |
| >>RL ID | 0 | | 9.2.1.53 | • | YES | ignore |
| >>UL DPCH To Add 7.68Mcps | | 01 | | Applicable to 7.68Mcps TDD only | YES | reject |
| >>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>UL Timeslot | М | | 9.2.3.38 | | _ | |
| Information 7.68Mcps | | | | | | |
| UL CCTrCH To Delete | | 0 <maxno ofCCTrCH s></maxno | | | GLOBAL | reject |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| DL CCTrCH To Add | | 0 <maxno ofCCTrCH s></maxno | | | GLOBAL | reject |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| >TFCS | М | | 9.2.1.58 | | _ | |
| >TFCI Coding | M | | 9.2.3.22 | | _ | |
| >Puncture Limit | M | | 9.2.1.50 | | _ | |
| >TPC CCTrCH List | | 0 <maxno ofCCTrCH s></maxno | | List of uplink CCTrCH which provide TPC | - | |
| >>TPC CCTrCH ID | М | | CCTrCH ID 9.2.3.3 | , pre-11-2 | _ | |
| >DL DPCH To Add Per RL | | 0 <maxno ofRLs></maxno | | See Note 1 below | _ | |
| >>DL DPCH Information | | 01 | | Applicable to 3.84Mcps TDD only | YES | reject |
| >>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>Repetition Length | M | 1 | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | M | 1 | 9.2.3.19A | | _ | |
| >>>DL Timeslot | M | 1 | 9.2.3.4E | | _ | |
| Information | | | | | | |
| >>DL DPCH Information | | 01 | | Applicable to | YES | reject |
| LCR | | | | 1.28Mcps TDD only | | • |
| >>>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>DL Timeslot | M | | 9.2.3.40 | | <u> </u> | |

| | Information LCR | | | | |
|---|--|---|----------------------|-----|--------|
| | >>CCTrCH Initial DL Transmission Power | 0 | DL Power 9.2.1.21 | YES | ignore |
| Ī | >>TDD TPC DL Step Size | 0 | 9.2.3.21 | YES | reject |

| >>CCTrCH Maximum DL | 0 | | DL Power | | YES | ignore |
|---|---|--|----------------------|---|--------|---------|
| Transmission Power >>CCTrCH Minimum DL | 0 | | 9.2.1.21 DL Power | | YES | ignoro |
| Transmission Power | 0 | | 9.2.1.21 | | YES | ignore |
| >>RL ID | 0 | | 9.2.1.53 | | YES | ignore |
| >>DL DPCH Information | | 01 | 0.2 | Applicable to | YES | reject |
| 7.68Mcps | | | | 7.68Mcps TDD only | | • |
| >>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>DL Timeslot Information 7.68Mcps | М | | 9.2.3.39 | | - | |
| DL CCTrCH To Modify | | 0 <maxno ofCCTrCH s></maxno | | | GLOBAL | reject |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| >TFCS | 0 | | 9.2.1.58 | | _ | |
| >TFCI Coding | 0 | | 9.2.3.22 | | _ | |
| >Puncture Limit | 0 | | 9.2.1.50 | | _ | |
| >TPC CCTrCH List | | 0 <maxno ofCCTrCH s></maxno | | List of uplink CCTrCH which provide TPC | - | |
| >>TPC CCTrCH ID | М | | CCTrCH ID 9.2.3.3 | | _ | |
| >DL DPCH To Modify Per RL | | 0 <maxno ofRLs></maxno | | See Note 1 below | - | |
| >>DL DPCH To Add | | 01 | | Applicable to 3.84Mcps TDD only | YES | reject |
| >>>Repetition Period | М | | 9.2.3.16 | , | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>DL Timeslot Information | М | | 9.2.3.4E | | _ | |
| >>DL DPCH To Modify | | 01 | | | YES | reject |
| >>>Repetition Period | 0 | 0 | 9.2.3.16 | | _ | . 0,000 |
| >>>Repetition Length | 0 | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | 0 | | 9.2.3.19A | | _ | |
| >>>DL Timeslot Information | | 0 <maxno ofDLts></maxno | 0.2.0.10/1 | Applicable to 3.84Mcps TDD only | - | |
| >>>>Time Slot | М | | 9.2.3.23 | · · · · · · · · · · · · · · · · · · | _ | |
| >>>>Midamble Shift And Burst Type | 0 | | 9.2.3.7 | | - | |
| >>>TFCI Presence | 0 | | 9.2.1.57 | | _ | |
| >>>DL Code Information | | 0 <maxno ofDPCHs></maxno | - | | - | |
| >>>>DPCH ID | M | | 9.2.3.5 | | _ | |
| | 0 | | 9.2.3.19 | | _ | |
| >>>>TDD Channelisation Code | | | 3.2.3.13 | | | |
| >>>DL Timeslot | | 0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<> | | Applicable to | GLOBAL | reject |
| Information LCR | | ofDLtsLCR | | 1.28Mcps TDD only | GLOBAL | rojoot |
| >>>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>>>Midamble Shift LCR | 0 | | 9.2.3.7A | | | |
| >>>TFCI Presence | 0 | | 9.2.1.57 | | _ | |
| >>>DL Code Information LCR | | 0 <maxno ofDPCHsL</maxno | | | - | |
| iniormation LCK | | CR> | | | | |

| Γ | T | | T | 1 | т т | |
|---|-----|--|-----------|-----------------------|--------|--------|
| >>>>DPCH ID | M | | 9.2.3.5 | | _ | |
| >>>>TDD | 0 | | 9.2.3.19a | | _ | |
| Channelisation Code | | | | | | |
| LCR | | | | | | |
| >>>>TDD DL | 0 | | 9.2.3.19D | | YES | reject |
| DPCH Time Slot | | | | | | |
| Format LCR | | | | | | |
| >>>Maximum DL | 0 | | DL Power | Maximum | YES | ignore |
| Power to Modify LCR | | | 9.2.1.21 | allowed power | | |
| NO. 1 | | | 51.5 | on DPCH | \/50 | |
| >>>>Minimum DL | 0 | | DL Power | Minimum | YES | ignore |
| Power to Modify LCR | | | 9.2.1.21 | allowed power on DPCH | | |
| >>>DL Timeslot | | 0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<> | | Applicable to | GLOBAL | reject |
| | | ofDLts> | | 7.68Mcps TDD | GLOBAL | reject |
| Information 7.68Mcps | | 0/22:02 | | only | | |
| >>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>>Midamble Shift | 0 | | 9.2.3.35 | | _ | |
| And Burst Type | | | | | | |
| 7.68Mcps | | | | | | |
| >>>>TFCI Presence | 0 | | 9.2.1.57 | | _ | |
| >>>>TFCT Presence | | 0 <maxno< td=""><td>0.2.7.07</td><td></td><td>_</td><td></td></maxno<> | 0.2.7.07 | | _ | |
| >>>DL Code | | ofDPCHs7 | | | | |
| | | 68> | | | | |
| 7.68Mcps | M | | 9.2.3.42 | | | |
| >>>>DPCH ID | IVI | | 9.2.3.42 | | _ | |
| 7.68Mcps | | | 00004 | | | |
| >>>>TDD | 0 | | 9.2.3.34 | | _ | |
| Channelisation Code | | | | | | |
| 7.68Mcps | | | | | | |
| >>DL DPCH To Delete | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| >>>DPCH ID | M | ofDPCHs> | 9.2.3.5 | | _ | |
| >>DPCH To Add LCR | 141 | 01 | 0.2.0.0 | Applicable to | YES | reject |
| >>DL DPCH 10 Add LCR | | 01 | | 1.28Mcps TDD | 120 | reject |
| | | | | only | | |
| >>>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>>TDD DPCH Offset | М | | 9.2.3.19A | | _ | |
| >>>DL Timeslot | М | | 9.2.3.40 | | _ | |
| Information LCR | | | 0.2.00 | | | |
| | 0 | | 9.2.3.21 | | YES | reject |
| >>TDD TPC DL Step Size >>Maximum CCTrCH DL | 0 | 1 | DL Power | | YES | ignore |
| Power to Modify | | | 9.2.1.21 | | 125 | ignore |
| >>Minimum CCTrCH DL | 0 | | DL Power | | YES | ignore |
| Power to Modify | _ | <u> </u> | 9.2.1.21 | | | |
| >>RL ID | 0 | | 9.2.1.53 | | YES | ignore |
| >>DL DPCH To Add | | 01 | | Applicable to | YES | reject |
| 7.68Mcps | | | | 7.68Mcps TDD | | |
| - | NA. | 1 | 0.2.2.40 | only | | |
| >>>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>>Repetition Length | M | <u> </u> | 9.2.3.15 | 1 | _ | |
| >>>TDD DPCH Offset | M | 1 | 9.2.3.19A | | _ | |
| >>>DL Timeslot | М | | 9.2.3.39 | | - | |
| Information 7.68Mcps | | | | | | |
| DL CCTrCH To Delete | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| | | ofCCTrCH | | | | |
| · CCT-CLUD | M | S> | 9.2.3.3 | | _ | |
| >CCTrCH ID | | - | DCHs TDD | | VEC | roicat |
| DCHs To Modify | 0 | | To Modify | | YES | reject |
| | | | 9.2.3.4D | | | |
| | i . | 1 | | 1 | 1 | |

| DCHs To Add | 0 | | DCH TDD | | YES | reject |
|-------------------------------------|---|---|-------------------------------------|--|--------|--------|
| | | | Information 9.2.3.4C | | | |
| DCHs To Delete | | 0 <maxno< td=""><td>9.2.3.40</td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | 9.2.3.40 | | GLOBAL | reject |
| Dono 10 Doloto | | ofDCHs> | | | | -, |
| >DCH ID | М | | 9.2.1.20 | | _ | |
| DSCH To Modify | | 0 <maxno ofDSCHs></maxno | | | GLOBAL | reject |
| >DSCH ID | M | | 9.2.3.5a | 51.00=0111 | _ | |
| >CCTrCH ID | 0 | | 9.2.3.3 | DL CCTrCH in which the DSCH is mapped | _ | |
| >Transport Format Set | 0 | | 9.2.1.59 | | _ | |
| >Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >Frame Handling Priority | 0 | | 9.2.1.30 | | _ | |
| >ToAWS | 0 | | 9.2.1.61 | | _ | |
| >ToAWE | 0 | | 9.2.1.60 | | _ | |
| >Transport Bearer Request Indicator | M | | 9.2.1.62A | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| DSCH To Add | 0 | | DSCH TDD Information 9.2.3.5A | | YES | reject |
| DSCH To Delete | | 0 <maxno ofDSCHs></maxno | 0.2.0.071 | | GLOBAL | reject |
| >DSCH ID | М | | 9.2.3.5a | | _ | |
| USCH To Modify | | 0 <maxno ofUSCHs></maxno | | | GLOBAL | reject |
| >USCH ID | M | | 9.2.3.27 | | _ | |
| >Transport Format Set | 0 | | 9.2.1.59 | | _ | |
| >Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >CCTrCH ID | 0 | | 9.2.3.3 | UL CCTrCH in which the USCH is mapped | - | |
| >Transport Bearer Request Indicator | М | | 9.2.1.62A | | - | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

| >TNL QoS | 0 | | 9.2.1.58A | | YES | ignore |
|---------------------------------------|---------------------------|------------------------------------|--|---|--------|--------|
| USCH To Add | 0 | | USCH Information 9.2.3.28 | | YES | reject |
| USCH To Delete | | 0 <maxno ofUSCHs></maxno | | | GLOBAL | reject |
| >USCH ID | М | | 9.2.3.27 | | _ | |
| RL Information | | 0 <maxno ofRLs></maxno | | See Note 1 below | YES | reject |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >Maximum Downlink Power | 0 | | DL Power 9.2.1.21 | | - | |
| >Minimum Downlink Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >Initial DL Transmission Power | 0 | | DL Power 9.2.1.21 | | YES | ignore |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |
| >UL Synchronisation Parameters LCR | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | ignore |
| >>Uplink Synchronisation Step Size | М | | 9.2.3.26H | | _ | |
| >>Uplink Synchronisation Frequency | М | | 9.2.3.26G | | _ | |
| >DL Time Slot ISCP Info LCR | 0 | | 9.2.3.4P | Applicable to 1.28Mcps TDD only | YES | ignore |
| >UARFCN | 0 | | 9.2.1.65 | Applicable to 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (TS 25.105 [15]). | YES | reject |
| Signalling Bearer Request Indicator | 0 | | 9.2.1.55A | | YES | reject |
| HS-DSCH Information | 0 | | HS-DSCH TDD Information 9.2.3.5F | | YES | reject |
| HS-DSCH Information To Modify | 0 | | 9.2.1.31H | | YES | reject |
| HS-DSCH MAC-d Flows To Add | 0 | | HS-DSCH MAC-d Flows Information 9.2.1.31IA | | YES | reject |
| HS-DSCH MAC-d Flows To Delete | 0 | | 9.2.1.31IB | | YES | reject |
| HS-DSCH-RNTI | C- HSDSCH RadioLink | | 9.2.1.31J | | YES | reject |
| HS-PDSCH RL ID | 0 | | RL ID 9.2.1.53 | | YES | reject |
| PDSCH-RL-ID | 0 | | RL ID 9.2.1.53 | | YES | ignore |
| E-DCH Information >E-PUCH Information | 0 | 01 | 9.2.3.45 | 3.84Mcps TDD only | YES | reject |

| 01 | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48 9.2.3.49 9.2.3.52 9.2.3.45 9.2.3.46 9.2.3.47 9.2.3.65 9.2.3.65 9.2.3.45 9.2.3.65 9.2.3.45 9.2.3.45 9.2.3.45 9.2.3.49 | 7.68Mcps TDD only 1.28Mcps TDD only | - - - - - - - - - - - - - - - - - - - | reject reject reject |
|----|--|---|---|----------------------|
| | 9.2.1.73 9.2.3.48 9.2.3.49 9.2.3.52 9.2.1.53 9.2.3.45 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.64 9.2.3.65 9.2.3.65 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | only 1.28Mcps TDD | YES YES | reject |
| | 9.2.3.48 9.2.3.49 9.2.3.52 9.2.1.53 9.2.3.45 9.2.3.46 9.2.3.47 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.3.47 9.2.3.48a | only 1.28Mcps TDD | YES YES | reject |
| | 9.2.3.48 9.2.3.49 9.2.3.52 9.2.1.53 9.2.3.45 9.2.3.46 9.2.3.47 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.3.47 9.2.3.48a | only 1.28Mcps TDD | YES YES | reject |
| | 9.2.3.49 9.2.3.52 9.2.3.52 9.2.3.45 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.45a 9.2.3.47 9.2.3.47 9.2.3.45a 9.2.3.47 | only 1.28Mcps TDD | YES YES | reject |
| | 9.2.3.52 9.2.1.53 9.2.3.45 9.2.3.46 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | only 1.28Mcps TDD | - YES YES | reject |
| | 9.2.3.52 9.2.1.53 9.2.3.45 9.2.3.46 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | only 1.28Mcps TDD | - YES YES | reject |
| | 9.2.3.45 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | only 1.28Mcps TDD | YES | reject |
| | 9.2.3.45 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | only 1.28Mcps TDD | YES | reject |
| | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | only 1.28Mcps TDD | - - - - - YES | |
| 01 | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | 1.28Mcps TDD | - - - - YES | reject |
| 01 | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | - - - - YES | reject |
| 01 | 9.2.3.47 9.2.1.73 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | YES | reject |
| 01 | 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | YES | reject |
| 01 | 9.2.3.64 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | YES | reject |
| 01 | 9.2.3.65 9.2.3.52 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | YES | reject |
| 01 | 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | YES | reject |
| 01 | 9.2.3.45a 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | YES | reject |
| 01 | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | - - - | reject |
| | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | - - - | Tojout |
| | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | - - - | |
| | 9.2.3.46 9.2.3.47 9.2.1.73 9.2.3.48a | | - | |
| | 9.2.3.47 9.2.1.73 9.2.3.48a | | - | |
| | 9.2.1.73 9.2.3.48a | | <u>-</u> | |
| | 9.2.3.48a | | <u>-</u> | |
| | | | _ | 1 |
| | 9.2.3.49a | | | |
| | | | _ | |
| | 9.2.3.52 | | _ | |
| | INTEGER | Limite Nicomban of | VEC | : |
| | INTEGER (1255) | Unit: Number of subframes Applicable to 1.28Mcps TDD only | YES | ignore |
| 01 | | 1.28Mcps TDD only | YES | reject |
| | 9.2.3.93 | | - | |
| | 9.2.3.94 | | | |
| | 9.2.3.96 | | - | |
| | 9.2.3.96a | | - | |
| | 9.2.2.100 | | - | |
| | | | | 1 |
| | 9.2.3.97 | | _ | |
| | | 9.2.3.96a | 9.2.3.96a | 9.2.3.96a |

| >E-DCH Semi-Persistent scheduling Deactivate Indicator LCR | 0 | 9.2.3.101 | | - | |
|--|---|-------------------------------|---|-----|--------|
| Idle Interval Information | 0 | 9.2.3.102 | TDD only | YES | Ignore |
| UE Selected MBMS Service Information | 0 | 9.2.3.104 | This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. | YES | ignore |
| HS-SCCH TPC step size | 0 | 9.2.3.21 | 1.28 Mcps TDD only. | YES | ignore |
| DCH Measurement Occasion Information | 0 | 9.2.3.111 | Applicable for 1.28 Mcps TDD when HS- SCCH(s), E- AGCH(s) or HS-PDSCH are configured on TS0. | YES | reject |
| HS-DSCH-RNTI for FACH | 0 | HS-DSCH- RNTI 9.2.1.31J | 1.28 Mcps TDD only | YES | ignore |

NOTE 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofRLs are represented by separate ASN.1 structures with different criticalities.

| Condition | Explanation |
|-----------------|--|
| HSDSCHRadioLink | The IE shall be present if HS-PDSCH RL ID IE is present. |

| Range Bound | Explanation |
|-----------------|---|
| maxnoofDCHs | Maximum number of DCHs for a UE |
| maxnoofCCTrCHs | Maximum number of CCTrCHs for a UE |
| maxnoofDPCHs | Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD. |
| | Maximum number of uplink DPCHs in one CCTrCH for 7.68Mcps TDD |
| maxnoofDPCHsLCR | Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD |
| maxnoofDPCHs768 | Maximum number of downlink DPCHs in one CCTrCH for 7.68Mcps |
| | TDD |
| maxnoofDSCHs | Maximum number of DSCHs for one UE |
| maxnoofUSCHs | Maximum number of USCHs for one UE |
| maxnoofDLts | Maximum number of Downlink time slots per Radio Link for 3.84Mcps |
| | TDD |
| maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps |
| | TDD |
| maxnoofULts | Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD |
| maxnoofULtsLCR | Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD |
| maxnoofRLs | Maximum number of RLs for one UE |

9.1.43 RADIO LINK RECONFIGURATION READY

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|---|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | - | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | М | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| RL Information Response | | 0 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | М | | 9.2.1.53 | | _ | |
| >DCH Information | 0 | | 9.2.1.20C | | YES | ignore |
| Response | | | | | | |
| >DSCH Information | 0 | | 9.2.3.5b | TDD only | YES | ignore |
| Response | | | | | | |
| >USCH Information | 0 | | 9.2.3.29 | TDD only | YES | ignore |
| Response | | | | | | |
| >Not Used | 0 | | NULL | | _ | |
| >DL Power Balancing | 0 | | 9.2.2.12D | | YES | ignore |
| Updated Indicator | | | | | | |
| >E-DCH RL Set ID | 0 | | RL Set ID 9.2.2.39 | | YES | ignore |
| >E-DCH FDD DL Control | 0 | | 9.2.2.13Dc | | YES | ignore |
| Channel Information | 0 | | 0.0.0.40Db | | YES | : |
| >E-DCH FDD Information | | | 9.2.2.13Db | | 150 | ignore |
| Response | 0 | | 9.2.2.111 | | YES | ianoro |
| >HS-DSCH | | | 9.2.2.111 | | 150 | ignore |
| Preconfiguration Info | 0 | | 9.2.2.145 | | YES | ignore |
| >Non-Serving RL | | | 9.2.2.145 | | 123 | ignore |
| Preconfiguration Info | 0 | | 9.2.1.17 | | YES | ignore |
| Criticality Diagnostics Target Communication | 0 | | Communica | | YES | ignore |
| Control Port ID | | | tion Control Port ID 9.2.1.15 | | 120 | ignore |
| HS-DSCH FDD Information | 0 | | 9.2.2.18E | FDD only | YES | ignore |
| Response HS-DSCH TDD Information | 0 | | 9.2.3.5G | TDD only | YES | ignore |
| Response | | | 0.2.0.00 | 1.55 omy | 120 | ignoro |
| E-DCH TDD Information Response | 0 | | E-DCH TDD Information Response 9.2.3.50 | TDD only | YES | ignore |
| MAC-hs Reset Indicator | 0 | | 9.2.1.38Ac | | YES | ignore |
| Fast Reconfiguration | 0 | | 9.2.2.63 | FDD only | YES | ignore |
| Permission | | | | | | |
| Continuous Packet Connectivity HS-SCCH less Information Response | 0 | | 9.2.2.69 | FDD only | YES | ignore |
| Additional HS Cell Information Response | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | ignore |
| >HS-PDSCH RL ID | M | | RL ID 9.2.1.53 | | _ | |

| | 1 | | | | | |
|------------------------------|---|---|------------|--------------------|------|--------|
| >HS-DSCH FDD | M | | 9.2.2.18EA | FDD only | _ | |
| Secondary Serving | | | | | | |
| Information Response | | | | | | |
| Continuous Packet | 0 | | 9.2.3.95 | 1.28 Mcps TDD | YES | ignore |
| Connectivity DRX Information | | | | only | | 9 |
| - | | | | | | |
| Response LCR | 0 | | 9.2.3.98 | 4 00 Mana TDD | YES | |
| HS-DSCH Semi-Persistent | 0 | | 9.2.3.98 | 1.28 Mcps TDD only | YES | ignore |
| scheduling Information | | | | Offig | | |
| Response LCR | | | | | | |
| E-DCH Semi-Persistent | 0 | | 9.2.3.99 | 1.28 Mcps TDD | YES | ignore |
| scheduling Information | | | | only | | |
| Response LCR | | | | | | |
| Additional E-DCHCell | | 0 <maxno< td=""><td></td><td>E-DCH on</td><td>EACH</td><td>ignore</td></maxno<> | | E-DCH on | EACH | ignore |
| Information Response | | ofEDCH- | | Secondary | | J |
| RLReconf | | 1> | | uplink | | |
| KLKecom | | | | frequency - | | |
| | | | | max 1 in this | | |
| | | | | 3GPP release. | | |
| >Additional E-DCH FDD | 0 | | 9.2.2.135 | For new E-DCH | _ | |
| Information Response | | | | Radio Links on | | |
| · | | | | secondary | | |
| | | | | uplink | | |
| | | | 0.00111 | frequency | | |
| >Additional Modified E-DCH | 0 | | 9.2.2.141 | | _ | |
| FDD Information Response | | | | | | |
| E-RNTI for FACH | 0 | | E-RNTI | 1.28 Mcps TDD | YES | ignore |
| | | | 9.2.1.75 | only | | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for a UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.44 RADIO LINK RECONFIGURATION FAILURE

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|---------------------------------------|----------|----------------------------------|----------------|--|-------------|----------------------|
| | | | Reference | Description | | Criticality |
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| CHOICE Cause Level | M | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | M | | 9.2.1.6 | | YES | ignore |
| >RL Specific | | | | | | |
| >>RLs Causing Reconfiguration Failure | | 0 <maxno ofRLs></maxno | | | EACH | ignore |
| >>>RL ID | M | | 9.2.1.53 | | _ | |
| >>>Cause | M | | 9.2.1.6 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

| Range Bound | Explanation |
|-------------|--------------------------------|
| maxnoofRLs | Maximum number of RLs for a UE |

9.1.45 RADIO LINK RECONFIGURATION COMMIT

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------------|----------|-------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | - | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| CFN | М | | 9.2.1.7 | | YES | ignore |
| Active Pattern Sequence Information | 0 | | 9.2.2.A | FDD only | YES | ignore |
| Fast Reconfiguration Mode | 0 | | 9.2.2.62 | FDD only | YES | reject |

9.1.46 RADIO LINK RECONFIGURATION CANCEL

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|-------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | - | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |

9.1.47 RADIO LINK RECONFIGURATION REQUEST

9.1.47.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-----------------------------------|--|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| UL DPCH Information | | 01 | | | YES | reject |
| >TFCS | 0 | | 9.2.1.58 | For the UL. | _ | |
| >UL DPDCH Indicator For | 0 | | 9.2.2.61 | | YES | reject |
| E-DCH Operation | | | | | | |
| DL DPCH Information | | 01 | | | YES | reject |
| >TFCS | 0 | | 9.2.1.58 | For the DL. | _ | |
| >TFCI Signalling Mode | 0 | | 9.2.2.50 | | _ | |
| >Limited Power Increase | 0 | | 9.2.2.18A | | _ | |
| DCHs To Modify | 0 | | DCHs FDD To Modify 9.2.2.4E | | YES | reject |
| DCHs To Add | 0 | | DCH FDD Information 9.2.2.4D | | YES | reject |
| DCHs To Delete | | 0 <maxno ofDCHs></maxno | | | GLOBAL | reject |
| >DCH ID | M | | 9.2.1.20 | | _ | |
| Radio Link Information | | 0 <maxno ofRLs></maxno | | | EACH | reject |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on DPCH or on F-DPCH | _ | |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | Minimum allowed power on DPCH or on F-DPCH | _ | |
| >DL Code Information | C-SF/2 | | FDD DL Code Information 9.2.2.14A | | _ | |
| >DL Reference Power | 0 | | DL Power 9.2.1.21 | Power on DPCH or on F- DPCH | YES | ignore |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |
| >E-DCH RL Indication | 0 | | 9.2.2.13De | | YES | reject |
| >RL Specific E-DCH Information | 0 | | 9.2.2.39a | | YES | ignore |
| >F-DPCH Slot Format | 0 | | 9.2.2.93 | | YES | reject |
| >HS-DSCH Preconfiguration Setup | 0 | | 9.2.2.112 | | YES | ignore |
| >Non-Serving RL Preconfiguration Setup | 0 | | 9.2.2.144 | | YES | ignore |
| >Non-Serving RL Preconfiguration Removal | 0 | | Non- Serving RL Preconfigur | | YES | ignore |

| T | | 1 | 1 .: 0 . | Ι | | 1 |
|---------------------------|-----------|------------|------------------------|---|------|--------|
| | | | ation Setup | | | |
| Transmission Con Detterm | 0 | | 9.2.2.144 9.2.2.53A | | YES | reject |
| Transmission Gap Pattern | | | 9.2.2.33A | | ILS | reject |
| Sequence Information | 0 | | 9.2.1.55A | | YES | roject |
| Signalling Bearer Request | | | 9.2.1.55A | | 169 | reject |
| Indicator | | | | | \/=0 | |
| HS-DSCH Information | 0 | | HS-DSCH | | YES | reject |
| | | | FDD Information | | | |
| | | | 9.2.2.18D | | | |
| HS-DSCH Information To | 0 | | 9.2.1.31HA | | YES | reject |
| Modify Unsynchronised | | | 3.2.1.31117 | | 120 | reject |
| HS-DSCH MAC-d Flows To | 0 | | HS-DSCH | | YES | reject |
| Add | | | MAC-d | | | |
| | | | Flows | | | |
| | | | Information | | | |
| | | | 9.2.1.31IA | | | |
| HS-DSCH MAC-d Flows To | 0 | | 9.2.1.31IB | | YES | reject |
| Delete | | | | | | |
| HS-DSCH-RNTI | C- | | 9.2.1.31J | | YES | reject |
| | HSDSCH | | | | | |
| | RadioLink | | | | | |
| HS-PDSCH RL ID | 0 | | RL ID | | YES | reject |
| | | 0.4 | 9.2.1.53 | | \/=0 | |
| E-DPCH Information | | 01 | | | YES | reject |
| >Maximum Set of E- | 0 | | 9.2.2.20C | | _ | |
| DPDCHs | | | | | | |
| >Puncture Limit | 0 | | 9.2.1.50 | | | |
| >E-TFCS Information | 0 | | 9.2.2.13Dh | | _ | |
| >E-TTI | 0 | | 9.2.2.13Di | | _ | |
| >E-DPCCH Power Offset | 0 | | 9.2.2.13Dj | | - | |
| >E-RGCH 2-Index-Step | 0 | | 9.2.2.13lg | | _ | |
| Threshold | | | | | | |
| >E-RGCH 3-Index-Step | 0 | | 9.2.2.13lh | | _ | |
| Threshold | | | | | | |
| >HARQ Info for E-DCH | 0 | | 9.2.2.18ba | | _ | |
| >HS-DSCH Configured | 0 | | 9.2.2.18Ca | | | |
| Indicator | | | 0.2.2.1000 | | | |
| > Minimum Reduced E- | 0 | | 9.2.2.114 | | YES | ignore |
| DPDCH Gain Factor | | | | | | garara |
| E-DCH FDD Information | 0 | | E-DCH | | YES | reject |
| | | | FDD | | | , |
| | | | Information | | | |
| | | | 9.2.2.13Da | | | |
| E-DCH FDD Information To | 0 | | 9.2.2.13Df | | YES | reject |
| Modify | | | | | _ | |
| E-DCH MAC-d Flows To Add | 0 | | E-DCH | | YES | reject |
| | | | FDD MAC-d | | | |
| | | | Flows | | | |
| | | | Information | | | |
| E-DCH MAC-d Flows To | 0 | | 9.2.2.13M 9.2.1.73 | | YES | roject |
| Delete | | | 9.2.1./3 | | 150 | reject |
| Serving E-DCH RL | 0 | | 9.2.2.48B | | YES | reject |
| CPC Information | | 01 | 3.2.2. 4 0D | | YES | reject |
| >Continuous Packet | 0 | <i>U</i> 1 | 9.2.2.66 | | - | 16]601 |
| Connectivity DTX-DRX | | | 3.2.2.00 | | _ | |
| Information | | | | | | |
| >Continuous Packet | 0 | | 9.2.2.67 | | _ | |
| Connectivity DTX-DRX | _ | | 1 | | | |
| Information To Modify | | | | | | |
| >Continuous Packet | 0 | | 9.2.2.68 | | _ | |
| Connectivity HS-SCCH | | | | | | |
| less Information | | | | | | |

| 0 " 5 1 1 | | 1 | 00000 | | 7/20 | |
|---|---|--|-------------------|--|------|--------|
| >Continuous Packet | 0 | | 9.2.2.69A | | YES | reject |
| Connectivity HS-SCCH less Deactivate Indicator | | | | | | |
| No of Target Cell HS-SCCH | 0 | | INTEGER | | YES | ignore |
| Order | | | (130) | | 120 | ignore |
| Additional HS Cell Information RL Reconf Req | | 0 <maxno ofHSDSC H-1></maxno | () | For secondary serving HS-DSCH cell. Max 1 in this 3GPP release. | EACH | reject |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | - | |
| >C-ID | 0 | | 9.2.1.9 | | _ | |
| >HS-DSCH FDD Secondary Serving Information | 0 | | 9.2.2.18Da | | ı | |
| >HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised | 0 | | 9.2.2.18EC | | - | |
| >HS-DSCH Secondary Serving Remove | 0 | | NULL | | _ | |
| UE Aggregate Maximum Bit Rate | 0 | | 9.2.1.123 | | YES | ignore |
| Additional E-DCHCell Information RL Reconf Req | | 01 | | For E-DCH on multiple frequencies in this Node B. | YES | reject |
| >CHOICE Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency | M | | | | YES | reject |
| >>Setup | | | | Used when RLs on the secondary UL frequency does not exist or is not configured with E-DCH in the current Node B Communication Context | - | |
| >>> MultiCell E-DCH Transport Bearer Mode | М | | 9.2.2.130 | | - | |
| >>>Additional E-DCH Cell Information Setup | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | - | |
| >>>>Additional E- DCH FDD Setup Information | М | | 9.2.2.131 | | - | |
| >>Configuration Change | | | | Used when RLs with additional E-DCH on the secondary UL frequency exist in the current Node B Communication context and the configuration is | _ | |

| >>>Additional E-DCH | | 1 <maxno< th=""><th></th><th>modified (adding new RLs or modification of existing RLs) E-DCH on</th><th>_</th><th></th></maxno<> | | modified (adding new RLs or modification of existing RLs) E-DCH on | _ | |
|---|---|--|---------------------------------|--|---|--|
| Cell Information Configuration Change | | ofEDCH- 1> | | Secondary uplink frequency - max 1 in this 3GPP release. | | |
| >>>> Additional E- DCH Configuration Change Information | M | | 9.2.2.136 | | _ | |
| >>Removal | | | | Used when all RLs on the indicated secondary UL frequency is removed. | - | |
| >>>Additional E-DCH Cell Information Removal | | 1 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | - | |
| >>>RL on Secondary UL Frequency | M | | ENUMERA TED (Remove,) | Removal of all RL on secondary UL frequency | - | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofDCHs | Maximum number of DCHs for a UE |
| maxnoofRLs | Maximum number of RLs for a UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

| Condition | Explanation |
|-------------------|---|
| SF/2 | The IE shall be present if the Transmission Gap Pattern Sequence |
| | Information IE is included and the indicated Downlink Compressed |
| | Mode method for at least one of the included Transmission Gap Pattern |
| | Sequence is set to "SF/2". |
| HSDSCH Radio Link | The IE shall be present if HS-PDSCH RL ID IE is present. |

9.1.47.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|------------------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| UL CCTrCH To Modify | | 0 <maxno ofCCTrCH s></maxno | | | EACH | notify |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| >TFCS | 0 | | 9.2.1.58 | | _ | |
| >Puncture Limit | 0 | | 9.2.1.50 | | _ | |
| >UL SIR Target | 0 | | UL SIR 9.2.1.67A | Applicable to 1.28Mcps TDD only | YES | reject |
| UL CCTrCH To Delete | | 0 <maxno ofCCTrCH s></maxno | | | EACH | notify |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| DL CCTrCH To Modify | | 0 <maxno ofCCTrCH s></maxno | | | EACH | notify |
| >CCTrCH ID | М | | 9.2.3.3 | | _ | |
| >TFCS | 0 | | 9.2.1.58 | | _ | |
| >Puncture Limit | 0 | | 9.2.1.50 | | _ | |
| >DL CCTrCH To Modify Per RL | | 0 <maxno ofRLs></maxno | | See note 1 below | | |
| >>DL DPCH To Modify LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | ignore |
| >>>DL Timeslot Information LCR | | 0 <maxno ofDLtsLCR ></maxno | | | - | |
| >>>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>>Maximum DL Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on DPCH | _ | |
| >>>Minimum DL Power | 0 | | DL Power 9.2.1.21 | Minimum allowed power on DPCH | _ | |
| >>CCTrCH Maximum DL Transmission Power | 0 | | DL Power 9.2.1.21 | | YES | ignore |
| >>CCTrCH Minimum DL Transmission Power | 0 | | DL Power 9.2.1.21 | | YES | ignore |
| >>RL ID | 0 | | 9.2.1.53 | | YES | ignore |
| DL CCTrCH To Delete | | 0 <maxno ofCCTrCH s></maxno | | | EACH | notify |
| >CCTrCH ID | М | | 9.2.3.3 | | - | |
| DCHs To Modify | 0 | | DCHs TDD To Modify 9.2.3.4D | | YES | reject |
| DCHs To Add | 0 | | DCH TDD Information 9.2.3.4C | | YES | reject |
| DCHs To Delete | | 0 <maxno ofDCHs></maxno | | | GLOBAL | reject |

| >DCH ID | М | | 9.2.1.20 | | _ | |
|--|---------------------------|----------------------------------|--|---|-----|--------|
| RL Information | | 0 <maxno ofRLs></maxno | | See note 1 below | YES | reject |
| >RL ID | М | | 9.2.1.53 | | _ | |
| >Maximum Downlink Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >Minimum Downlink Power | 0 | | DL Power 9.2.1.21 | | - | |
| >RL Specific DCH Information | 0 | | 9.2.1.53G | | YES | ignore |
| | | 01 | | Mandatory for | YES | ignore |
| >UL Synchronisation Parameters LCR | | <i>01</i> | | 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | 120 | ignore |
| >>Uplink Synchronisation Step Size | М | | 9.2.3.26H | | _ | |
| >>Uplink Synchronisation Frequency | M | | 9.2.3.26G | | - | |
| Signalling Bearer Request Indicator | 0 | | 9.2.1.55A | | YES | reject |
| HS-DSCH Information | 0 | | HS-DSCH TDD Information 9.2.3.5F | | YES | reject |
| HS-DSCH Information To Modify Unsynchronised | 0 | | 9.2.1.31HA | | YES | reject |
| HS-DSCH MAC-d Flows To Add | 0 | | HS-DSCH MAC-d Flows Information 9.2.1.31IA | | YES | reject |
| HS-DSCH MAC-d Flows To Delete | 0 | | 9.2.1.31IB | | YES | reject |
| HS-DSCH-RNTI | C- HSDSCH RadioLink | | 9.2.1.31J | | YES | reject |
| HS-PDSCH RL ID | 0 | | RL ID 9.2.1.53 | | YES | reject |
| E-DCH Information | | 01 | | 3.84Mcps TDD only | YES | reject |
| >E-PUCH Information | 0 | | 9.2.3.45 | • | _ | |
| >E-TFCS Information TDD | 0 | | 9.2.3.46 | | | |
| >E-DCH MAC-d Flows to Add | 0 | | 9.2.3.47 | | _ | |
| >E-DCH MAC-d Flows to Delete | 0 | | 9.2.1.73 | | _ | |
| >E-DCH Non-scheduled Grant Information TDD | 0 | | 9.2.3.48 | | - | |
| >E-DCH TDD Information | 0 | | 9.2.3.49 | | _ | |
| >E-DCH TDD Information to Modify | 0 | | 9.2.3.52 | | - | |
| E-DCH Serving RL | 0 | | 9.2.1.53 | | YES | reject |
| E-DCH Information 7.68Mcps | | 01 | | 7.68Mcps TDD only | YES | reject |
| >E-PUCH Information | 0 | | 9.2.3.45 | | _ | |
| >E-TFCS Information TDD >E-DCH MAC-d Flows to | 0 | | 9.2.3.46 9.2.3.47 | | - | |
| Add >E-DCH MAC-d Flows to | 0 | | 9.2.1.73 | | | |
| Delete >E-DCH Non-scheduled Grant Information 7.68Mcps TDD | 0 | | 9.2.3.64 | | - | |

| | 1 | 1 | | 1 | 1 | 1 |
|---|---|----|-------------------|---|-----|--------|
| >E-DCH TDD Information 7.68Mcps | 0 | | 9.2.3.65 | | _ | |
| >E-DCH TDD Information to Modify | 0 | | 9.2.3.52 | | - | |
| E-DCH Information 1.28Mcps | | 01 | | 1.28Mcps TDD only | YES | reject |
| >E-PUCH Information LCR | 0 | | 9.2.3.45a | , | _ | |
| >E-TFCS Information TDD | 0 | | 9.2.3.46 | | _ | |
| >E-DCH MAC-d Flows to | 0 | | 9.2.3.47 | | _ | |
| >E-DCH MAC-d Flows to Delete | 0 | | 9.2.1.73 | | _ | |
| >E-DCH Non-scheduled | 0 | | 9.2.3.48a | | _ | |
| Grant Information LCR TDD >E-DCH TDD Information LCR | 0 | | 9.2.3.49a | | _ | |
| >E-DCH TDD Information to | 0 | | 9.2.3.52 | | _ | |
| Modify | | | | | | |
| Power Control GAP | 0 | | INTEGER (1255) | Unit: Number of subframes Applicable to 1.28Mcps TDD only | YES | ignore |
| CPC Information | | 01 | | | YES | reject |
| >Continuous Packet Connectivity DRX Information LCR | 0 | | 9.2.3.93 | | _ | |
| >Continuous Packet Connectivity DRX | 0 | | 9.2.3.94 | | _ | |
| Information To Modify LCR >HS-DSCH Semi-Persistent scheduling Information LCR | 0 | | 9.2.3.96 | | _ | |
| >HS-DSCH Semi-Persistent scheduling Information to modify LCR | 0 | | 9.2.3.96a | | _ | |
| >HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR | 0 | | 9.2.2.100 | | YES | reject |
| >E-DCH Semi-Persistent scheduling Information LCR | 0 | | 9.2.3.97 | | - | |
| >E-DCH Semi-Persistent scheduling Information to modify LCR | 0 | | 9.2.3.97a | | _ | |
| >E-DCH Semi-Persistent scheduling Deactivate | 0 | | 9.2.3.101 | | YES | reject |
| Indicator LCR Idle Interval Information | 0 | 1 | 9.2.3.102 | TDD only | YES | Ignore |
| UE Selected MBMS Service Information | O | | 9.2.3.104 | This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. | YES | ignore |
| HS-SCCH TPC step size | О | | 9.2.3.21 | 1.28 Mcps TDD only. This IE is mandatory if "E-DCH Information 1.28Mcps" IE is absent. | YES | ignore |

| DCH Measurement Occasion Information | 0 | 9.2.3.111 | Applicable for 1.28 Mcps TDD when HS- SCCH(s), E- AGCH(s) or HS-PDSCH are configured on TS0. | YES | reject |
|---|---|-------------------------------|---|-----|--------|
| HS-DSCH-RNTI for FACH | 0 | HS-DSCH- RNTI 9.2.1.31J | 1.28 Mcps TDD only | YES | ignore |

NOTE 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofRLs are represented by separate ASN.1 structures with different criticality.

| Range Bound | Explanation |
|----------------|---|
| maxnoofCCTrCHs | Maximum number of CCTrCHs for a UE |
| maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD |
| maxnoofDCHs | Maximum number of DCHs for a UE |
| maxnoofRLs | Maximum number of RLs for one UE |

| Condition | Explanation |
|-----------------|--|
| HSDSCHRadioLink | The IE shall be present if HS-PDSCH RL ID IE is present. |

9.1.48 RADIO LINK RECONFIGURATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|---|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| RL Information Response | | 0 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | M | | 9.2.1.53 | | _ | |
| >DCH Information | 0 | | 9.2.1.20C | | YES | ignore |
| Response | | | | | | |
| >DL Power Balancing | 0 | | 9.2.2.12D | FDD only | YES | ignore |
| Updated Indicator | | | | | | |
| >E-DCH RL Set ID | 0 | | RL Set ID 9.2.2.39 | | YES | ignore |
| >E-DCH FDD DL Control Channel Information | 0 | | 9.2.2.13Dc | | YES | ignore |
| >E-DCH FDD Information | 0 | | 9.2.2.13Db | | YES | ignore |
| | | | 0.2.2.1000 | | 120 | ignore |
| Response >HS-DSCH | 0 | | 9.2.2.111 | | YES | ignore |
| Preconfiguration Info | | | 0.2.2.111 | | 120 | ignore |
| | 0 | | 9.2.2.145 | | YES | ignore |
| >Non-Serving RL Preconfiguration Info | | | 0.2.2.140 | | 120 | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| Target Communication | 0 | | Communica | | YES | ignore |
| Control Port ID | | | tion Control Port ID 9.2.1.15 | | 123 | ignore |
| HS-DSCH FDD Information Response | 0 | | 9.2.2.18E | FDD only | YES | ignore |
| HS-DSCH TDD Information Response | 0 | | 9.2.3.5G | TDD only | YES | ignore |
| E-DCH TDD Information Response | 0 | | E-DCH TDD Information Response 9.2.3.50 | TDD only | YES | ignore |
| MAC-hs Reset Indicator | 0 | | 9.2.1.38Ac | | YES | ignore |
| Continuous Packet Connectivity HS-SCCH less Information Response | 0 | | 9.2.2.69 | FDD only | YES | ignore |
| Additional HS Cell Information Response | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | ignore |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | _ | |
| >HS-DSCH FDD Secondary Serving | М | | 9.2.2.18EA | FDD only | _ | |
| Information Response Continuous Packet | 0 | | 9.2.3.95 | 1.28 Mcps TDD | YES | ignore |
| Connectivity DRX Information Response LCR | | | | only | | |
| HS-DSCH Semi-Persistent | 0 | | 9.2.3.98 | 1.28 Mcps TDD | YES | ignore |

| scheduling Information Response LCR | | | | only | | |
|---|---|--|--------------------|--|------|--------|
| E-DCH Semi-Persistent scheduling Information Response LCR | 0 | | 9.2.3.99 | 1.28 Mcps TDD only | YES | ignore |
| Additional E-DCH Cell Information Response RLReconf | | 0 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | EACH | ignore |
| >Additional E-DCH FDD Information Response | 0 | | 9.2.2.135 | For new E-DCH Radio Links on secondary uplink frequency | _ | |
| >Additional Modified E-DCH FDD Information Response | 0 | | 9.2.2.140 | | 1 | |
| E-RNTI for FACH | 0 | | E-RNTI 9.2.1.75 | 1.28 Mcps TDD only | YES | ignore |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofRLs | Maximum number of RLs for a UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.49 RADIO LINK DELETION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|----------------------------------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | reject |
| CRNC Communication Context ID | M | | 9.2.1.18 | | YES | reject |
| RL Information | | 1 <maxno ofRLs></maxno | | | EACH | notify |
| >RL ID | M | | 9.2.1.53 | | _ | |

| Range Bound | Explanation |
|-------------|--|
| maxnoofRLs | Maximum number of radio links for one UE |

9.1.50 RADIO LINK DELETION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|----------|-------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | М | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.51 DL POWER CONTROL REQUEST [FDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|------------------------------|----------------------------------|-----------------------------|--|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | - | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| Power Adjustment Type | M | | 9.2.2.27 | | YES | ignore |
| DL Reference Power | C- Common | | DL power 9.2.1.21 | Power on DPCH or on F-DPCH | YES | ignore |
| Inner Loop DL PC Status | 0 | | 9.2.2.18B | | YES | ignore |
| DL Reference Power Information | C- Individual | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | М | | 9.2.1.53 | | _ | |
| >DL Reference Power | М | | DL power 9.2.1.21 | Power on DPCH or on F-DPCH | - | |
| Max Adjustment Step | C- CommonO rIndividual | | 9.2.2.20 | | YES | ignore |
| Adjustment Period | C- CommonO rIndividual | | 9.2.2.B | | YES | ignore |
| Adjustment Ratio | C- CommonO rIndividual | | 9.2.2.C | | YES | ignore |

| Condition | Explanation |
|--------------------|---|
| Common | The IE shall be present if the Adjustment Type IE is equal to "Common". |
| Individual | The IE shall be present if the Adjustment Type IE is equal to "Individual". |
| CommonOrIndividual | The IE shall be present if the Adjustment Type IE is equal to "Common" |
| | or "Individual". |

| Range Bound | Explanation |
|-------------|--|
| maxnoofRLs | Maximum number of Radio Links for a UE |

9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|---|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used when the Report characteristics type is set to "On Demand". | YES | reject |
| Measurement ID | M | | 9.2.1.42 | | YES | reject |
| CHOICE Dedicated Measurement Object Type >RL | М | | | | YES | reject |
| >>RL Information | | 1 <maxno ofRLs></maxno | | | EACH | reject |
| >>>RL ID | M | | 9.2.1.53 | | _ | |
| >>>DPCH ID | 0 | | 9.2.3.5 | TDD only | _ | |
| >>>PUSCH Information | | 0 <maxno ofPUSCHs ></maxno | | TDD only | GLOBAL | reject |
| >>>PUSCH ID | М | | 9.2.3.12 | | _ | |
| >>>HS-SICH Information | | 0 <maxno ofHSSICH s></maxno | | TDD only | GLOBAL | reject |
| >>>>HS-SICH ID | M | | 9.2.3.5Gb | For 1.28Mcps TDD, if the Extended HS- SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored | _ | |
| >>>>Extended HS- SICH ID | 0 | | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the Extended HS- SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. See note 1 below. | _ | |
| DDOLLID 7 00M | 0 | | 9.2.3.42 | Included for | YES | reject |
| >>>DPCH ID 7.68Mcps | | | | 7.68Mcps TDD for downlink | | |
| >>>DPCH ID 7.68Mcps | | | | · · | | |

| | ofRLSets> | | | | |
|--|-----------|---|-------------------|-----|--------|
| >>>RL Set ID M | | 9.2.2.39 | | _ | |
| >ALL RL | | NULL | | | |
| >ALL RLS | | NULL | FDD only | | |
| Dedicated Measurement M Type | | 9.2.1.23 | | YES | reject |
| Measurement Filter O Coefficient | | 9.2.1.41 | | YES | reject |
| Report Characteristics M | | 9.2.1.51 | | YES | reject |
| CFN Reporting Indicator M | | FN Reporting Indicator 9.2.1.29B | | YES | reject |
| CFN O | | 9.2.1.7 | | YES | reject |
| Number Of Reported Cell C- Portions BestC ortion as | - | 9.2.2.23D | FDD only | YES | reject |
| Measurement Recovery O Behavior | | 9.2.1.43A | | YES | ignore |
| Alternative Format Reporting O Indicator | | 9.2.1.1B | | YES | ignore |
| Number Of Reported Cell Portions LCR BestC ortion asLCl Note 1: This information element is | sMe R | 9.2.3.108 | 1.28Mcps TDD only | YES | reject |

| Condition | Explanation |
|-------------------------|--|
| BestCellPortionsMeas | The IE shall be present if the Dedicated Measurement Type IE is set to |
| | "Best Cell Portions". |
| BestCellPortionsMeasLCR | The IE shall be present if the Dedicated Measurement Type IE is set to |
| | 'Best Cell Portions LCR'. |

| Range Bound | Explanation |
|----------------|---|
| maxnoofRLs | Maximum number of individual RLs a measurement can be started on |
| maxnoofPUSCHs | Maximum number of PUSCHs per RL a measurement can be started on |
| maxnoofRLSets | Maximum number of individual RL Sets a measurement can be started |
| | on |
| maxnoofHSSICHs | Maximum number of HSSICHs per RL a measurement can be started |
| | on |

9.1.53 DEDICATED MEASUREMENT INITIATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|-----------------------------|---|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | М | | 9.2.1.18 | | YES | ignore |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| CHOICE Dedicated Measurement Object Type | 0 | | | Dedicated Measurement Object Type the measurement was initiated with | YES | ignore |
| >RL or ALL RL | | | | See Note 1 | | |
| >>RL Information | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >>>RL ID | М | | 9.2.1.53 | | _ | |
| >>>DPCH ID | 0 | | 9.2.3.5 | TDD only | _ | |
| >>>Dedicated Measurement Value | М | | 9.2.1.24 | | - | |
| >>>CFN | 0 | | 9.2.1.7 | Dedicated Measurement Time Reference | _ | |
| >>>PUSCH Information | | 0 <maxno ofPUSCHs ></maxno | | TDD only See note 3 | GLOBAL | reject |
| >>>PUSCH ID | М | | 9.2.3.12 | | _ | |
| >>>>Dedicated Measurement Value | 0 | | 9.2.1.24 | | _ | |
| >>>HS-SICH ID | 0 | | 9.2.3.5Gb | TDD only For 1.28Mcps TDD, if the Extended HS- SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored | YES | reject |
| >>>Multiple Dedicated Measurement Value Information | | 0 <maxno ofDPCHsP erRL-1></maxno | | Applicable to 3.84Mcps TDD only | GLOBAL | ignore |
| >>>DPCH ID | M | | 9.2.3.5 | | _ | |
| >>>Dedicated Measurement Value | М | | 9.2.1.24 | | _ | |
| >>>Multiple Dedicated Measurement Value Information LCR | | 0 <maxno ofDPCHsL CRPerRL- 1></maxno | | Applicable to 1.28McpsTDD only | GLOBAL | ignore |
| >>>DPCH ID | M | | 9.2.3.5 | | _ | |
| >>>>Dedicated Measurement Value | М | | 9.2.1.24 | | _ | |
| >>>Multiple HS-SICH | | 0 <maxno< td=""><td></td><td>TDD only</td><td>GLOBAL</td><td>ignore</td></maxno<> | | TDD only | GLOBAL | ignore |

| Measurement Value Information | | ofHSSICH s -1> | | | | |
|---|---|--|-----------|--|--------|--------|
| >>>HS-SICH ID | М | 8-17 | 9.2.3.5Gb | For 1.28Mcps TDD, if the Extended HS- SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored | - | |
| >>>Dedicated Measurement Value | М | | 9.2.1.24 | | - | |
| >>>Extended HS- SICH ID | O | | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the Extended HS- SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. | YES | ignore |
| >>>DPCH ID 7.68Mcps | 0 | | 9.2.3.42 | Included for 7.68Mcps TDD for downlink DPCH | YES | reject |
| >>>Multiple Dedicated Measurement Value Information 768Mcps | | 0 <maxno ofDPCHs7 68PerRL- 1></maxno | | Applicable to 7.68McpsTDD only | GLOBAL | ignore |
| >>>DPCH ID 7.68Mcps | М | | 9.2.3.42 | | - | |
| >>>Dedicated Measurement Value | М | | 9.2.1.24 | | _ | |
| >>>Extended HS-SICH ID | 0 | | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the Extended HS- SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. | YES | reject |
| >RLS or ALL RLS | | | | FDD only See Note 2 | | |
| >>RL Set Information | | 1 <maxno ofrlsets=""></maxno> | | | EACH | ignore |
| >>>RL Set ID | M | | 9.2.2.39 | | _ | |
| >>>Dedicated Measurement Value | М | | 9.2.1.24 | | _ | |
| >>>CFN | 0 | | 9.2.1.7 | Dedicated Measurement Time Reference | - | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| Measurement Recovery | 0 | 1 | 9.2.1.43C | | YES | ignore |

| Support | Indicator | | | | | | | |
|---------|--|--|--|--|--|--|--|--|
| Note 1: | Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the | | | | | | | |
| | ASN.1, each having exactly the same structure. | | | | | | | |
| Note 2: | : This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in | | | | | | | |
| | the ASN.1, each having exactly the same structure. | | | | | | | |
| Note 3: | This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through | | | | | | | |
| | maxnoofPUSCHs are represented by separate ASN.1 structures with different criticality. | | | | | | | |

| Range Bound | Explanation |
|----------------------|---|
| maxnoofRLs | Maximum number of individual RLs the measurement can be started on |
| maxnoofPUSCHs | Maximum number of PUSCHs per RL a measurement can be started on |
| maxnoofRLSets | Maximum number of individual RL Sets a measurement can be started on |
| maxnoofDPCHsPerRL | Maximum number of DPCHs per RL a measurement can be started on for 3.84Mcps TDD |
| maxnoofDPCHsLCRPerRL | Maximum number of DPCHs per RL a measurement can be started on for 1.28Mcps TDD |
| maxnoofHSSICHs | Maximum number of HSSICHs per RL a measurement can be started on |
| maxnoofDPCHs768PerRL | Maximum number of DPCHs per RL a measurement can be started on for 7.68Mcps TDD |

9.1.54 DEDICATED MEASUREMENT INITIATION FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | | YES | ignore |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ianore |

9.1.55 DEDICATED MEASUREMENT REPORT

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | М | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| CHOICE Dedicated Measurement Object Type | М | | | Dedicated Measurement Object Type the measurement was initiated with | YES | ignore |
| >RL or ALL RL | | | | See Note 1 | | |
| >>RL Information | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >>>RL ID | М | | 9.2.1.53 | | _ | |
| >>>DPCH ID | 0 | | 9.2.3.5 | TDD only | - | |
| >>>Dedicated Measurement Value Information | М | | 9.2.1.24A | | _ | |
| >>>PUSCH Information | | 0 <maxno ofPUSCHs ></maxno | | TDD only See note 3 | GLOBAL | reject |
| >>>PUSCH ID | М | | 9.2.3.12 | | _ | |
| >>>Dedicated Measurement Value | 0 | | 9.2.1.24 | | _ | |
| >>>HS-SICH ID | O | | 9.2.3.5Gb | TDD only For 1.28Mcps TDD, if the Extended HS- SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored | YES | reject |
| >>>DPCH ID 7.68Mcps | 0 | | 9.2.3.42 | Included for 7.68Mcps TDD for downlink DPCH | YES | reject |
| >>>Extended HS-SICH ID | 0 | | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the Extended HS- SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. | YES | ignore |
| >RLS or ALL RLS | | | | the HS-SICH identity has a value larger | | |

| | | | | See Note 2 | | |
|--|---|-------------------------------------|-----------|------------|------|--------|
| >>RL Set Information | | 1 <maxno ofRLSets></maxno | | | EACH | ignore |
| >>>RL Set ID | М | | 9.2.2.39 | | _ | |
| >>>Dedicated Measurement Value Information | М | | 9.2.1.24A | | _ | |
| Measurement Recovery Reporting Indicator | 0 | | 9.2.1.43B | | YES | ignore |

- Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.
- Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.
- Note 3: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofPUSCHs are represented by separate ASN.1 structures with different criticality.

| Range Bound | Explanation |
|---------------|--|
| maxnoofRLs | Maximum number of individual RLs the measurement can be started on |
| maxnoofPUSCHs | Maximum number of PUSCHs per RL a measurement can be started on |
| maxnoofRLSets | Maximum number of individual RL Sets a measurement can be started |
| | on |

9.1.56 DEDICATED MEASUREMENT TERMINATION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|-------|-----------------------------|---|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC" shall be used if this value was used when initiating the measurement. Otherwise, the reserved value "All NBCC" shall not be used. | YES | ignore |
| Measurement ID | М | | 9.2.1.42 | | YES | ignore |

9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------|----------|-------|-----------------------------|---|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall be used if the Node B Communication Context ID was set to "All NBCC" when initiating the measurement. Otherwise, the reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Measurement ID | M | | 9.2.1.42 | | YES | ignore |
| Cause | М | | 9.2.1.6 | | YES | ignore |

9.1.58 RADIO LINK FAILURE INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|----------|---|-----------------------------|--|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| CHOICE Reporting Object | M | | | Object for which the Failure shall be reported. | YES | ignore |
| >RL | | | | | | |
| >>RL Information | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >>>RL ID | М | | 9.2.1.53 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| >RL Set | | | | FDD only | | |
| >>RL Set Information | | 1 <maxno ofRLSets></maxno | | | EACH | ignore |
| >>>RL Set ID | М | | 9.2.2.39 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| >CCTrCH | | | | TDD only | | |
| >>RL ID | M | | 9.2.1.53 | | _ | |
| >>CCTrCH List | | 1 <maxno ofCCTrCH s></maxno | | | EACH | ignore |
| >>>CCTrCH ID | M | | 9.2.3.3 | | _ | |
| >>>Cause | M | | 9.2.1.6 | | | |

| Range Bound | Explanation |
|----------------|--------------------------------------|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofRLSets | Maximum number of RL Sets for one UE |
| maxnoofCCTrCHs | Maximum number of CCTrCHs for a UE |

9.1.59 RADIO LINK RESTORE INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|----------|---|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| CHOICE Reporting Object | М | | | Object for which the Restoration shall be reported. | YES | ignore |
| >RL | | | | TDD only | | |
| >>Radio Link Information | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >>>RL ID | М | | 9.2.1.53 | | _ | |
| >RL Set | | | | FDD only | | |
| >>RL Set Information | | 1 <maxno ofRLSets></maxno | | | EACH | ignore |
| >>>RL Set ID | М | | 9.2.2.39 | | _ | |
| >CCTrCH | | | | TDD only | | |
| >>RL ID | М | | 9.2.1.53 | | _ | |
| >>CCTrCH List | | 1 <maxno ofCCTrCH s></maxno | | | EACH | ignore |
| >>>CCTrCH ID | М | | CCTrCH ID 9.2.3.3 | | _ | |

| Range Bound | Explanation |
|----------------|--------------------------------------|
| maxnoofRLs | Maximum number of RLs for one UE |
| maxnoofRLSets | Maximum number of RL Sets for one UE |
| maxnoofCCTrCHs | Maximum number of CCTrCHs for a UE |

9.1.60 COMPRESSED MODE COMMAND [FDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------------|----------|-------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| Active Pattern Sequence Information | M | | 9.2.2.A | | YES | ignore |

9.1.61 ERROR INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|-------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | - | |
| CRNC Communication Context ID | 0 | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Node B Communication Context ID | 0 | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| Cause | 0 | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST

9.1.62.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|---|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| Configuration Generation ID | М | | 9.2.1.16 | | YES | reject |
| SFN | 0 | | 9.2.1.53A | | YES | reject |
| HS-PDSCH, HS-SCCH,E- AGCH, E-RGCH and E-HICH Total Power | 0 | | Maximum Transmissio n Power 9.2.1.40 | Maximum transmission power to be allowed for HS- PDSCH, HS- SCCH, E- AGCH, E- RGCH and E- HICH codes | YES | reject |
| HS-PDSCH And HS-SCCH Scrambling Code | 0 | | DL Scrambling Code 9.2.2.13 | Scrambling code on which HS-PDSCH and HS-SCCH is transmitted. 0= Primary scrambling code of the cell 115 = Secondary scrambling code | YES | reject |
| HS-PDSCH FDD Code Information | 0 | | 9.2.2.18F | | YES | reject |
| HS-SCCH FDD Code Information | 0 | | 9.2.2.18G | | YES | reject |

| E 400114 LE BOOLVE | | T | 5. | 0 11 | YES | roiget |
|------------------------------------|---|---|--------------|--------------------------------|--------|--------|
| E-AGCH And E-RGCH/E- | 0 | | DL | Scrambling | YES | reject |
| HICH FDD Scrambling Code | | | Scrambling | code on which | | |
| | | | Code | E-AGCH, E- | | |
| | | | 9.2.2.13 | RGCH and E- | | |
| | | | | HICH are | | |
| | | | | transmitted. | | |
| | | | | 0= Primary scrambling | | |
| | | | | code of the cell | | |
| | | | | 115 = | | |
| | | | | Secondary | | |
| | | | | scrambling code | | |
| E-AGCH Code FDD | 0 | | 9.2.2.13lb | 000.0 | YES | reject |
| Information | | | | | | |
| E-RGCH/E-HICH Code FDD | 0 | | 9.2.2.13la | | YES | reject |
| Information | | | | | | |
| HSDPA And E-DCH Cell | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| Portion Information | | ofCellPorti | | | | |
| Coll Portion ID | M | ons> | 9.2.2.1Ca | | _ | |
| >Cell Portion ID >HS-PDSCH And HS- | 0 | | DL | Scrambling | _ | |
| SCCH Scrambling Code | | | Scrambling | code on which | | |
| 30011 Scrambling Code | | | Code | HS-PDSCH | | |
| | | | 9.2.2.13 | and HS-SCCH | | |
| | | | | is transmitted | | |
| | | | | over cell portion. | | |
| >HS-PDSCH FDD Code | 0 | | 9.2.2.18F | portioni | _ | |
| Information | | | | | | |
| >HS-SCCH FDD Code | 0 | | 9.2.2.18G | | _ | |
| Information | | | | | | |
| >HS-PDSCH, HS-SCCH, E- | 0 | | Maximum | Maximum | _ | |
| AGCH, E-RGCH and E- | | | Transmissio | transmission | | |
| HICH Total Power | | | n Power | power to be allowed for HS- | | |
| | | | 9.2.1.40 | PDSCH, HS- | | |
| | | | | SCCH and E- | | |
| | | | | AGCH, E- | | |
| | | | | RGCH and E- | | |
| | | | | HICH codes over cell portion | | |
| | | | | over cell portion | | |
| >E-AGCH And E-RGCH/E- | 0 | | DL | Scrambling | - | |
| HICH FDD Scrambling | | | Scrambling | code on which | | |
| Code | | | Code | E-AGCH, E- RGCH and E- | | |
| | | | 9.2.2.13 | HICH are | | |
| | | | | transmitted | | |
| | | | | over cell | | |
| >E-AGCH Code FDD | 0 | | 9.2.2.13lb | portion. | _ | |
| >E-AGCH Code FDD Information | | | J.∠.∠. I 3ID | | | |
| >E-RGCH/E-HICH Code | 0 | | 9.2.2.13la | | _ | |
| FDD Information | | | | | | |
| Maximum Target Received | 0 | | 9.2.2.21a | | YES | reject |
| Total Wide Band Power | | | 00000 | | \ | |
| Reference Received Total | 0 | | 9.2.2.39B | | YES | ignore |
| Wide Band Power | 0 | | 9.2.2.21b | | YES | roinet |
| Target Non-serving E-DCH to | | | 9.2.2.210 | | 1 = 5 | reject |
| Total E-DCH Power ratio | 0 | | 9.2.2.75 | | YES | reject |
| HS-DSCH Common System Information | | | 3.2.2.13 | | ILO | reject |
| แบบแลแบบ | 1 | I | | l | | |

| Common MAC Flows to Delete | 0 | 9.2.2.97 | YES | reject |
|---------------------------------------|---|--|-----|--------|
| HS-DSCH Paging System Information | 0 | 9.2.2.76 | YES | reject |
| Paging MAC Flows to Delete | 0 | 9.2.2.98 | YES | reject |
| Common E-DCH System Information | 0 | 9.2.2.103 | YES | Reject |
| Common UL MAC Flows to Delete | 0 | Common MAC Flows to Delete 9.2.2.97 | YES | Reject |
| Common E-DCH MAC-d Flows to Delete | 0 | E-DCH MAC Flows to Delete 9.2.1.73 | YES | Reject |
| Enhanced UE DRX Information | 0 | 9.2.2.108 | YES | reject |

| Range Bound | Explanation |
|---------------------|---|
| MaxNoofCellPortions | Maximum number of Cell Portions in a cell |

9.1.62.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------|----------|--|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | М | | 9.2.1.9 | | YES | reject |
| SFN | 0 | | 9.2.1.53A | | YES | reject |
| PDSCH Sets To Add | | 0 <maxno ofPDSCH Sets></maxno | | | GLOBAL | reject |
| >PDSCH Set ID | M | | 9.2.3.11 | | _ | |
| >PDSCH To Add Information | | 01 | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD. | YES | reject |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>TDD Physical | M | | 9.2.3.20 | | _ | |
| Channel Offset | | | | | | |
| >>DL Timeslot | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information | | ofDLts> | | | | |
| >>>Time Slot | M | | 9.2.3.23 | | _ | |
| >>>Midamble Shift | M | | 9.2.3.7 | | _ | |
| And Burst Type | | | | | | |
| >>>TFCI Presence | M | | 9.2.1.57 | | _ | |
| >>>DL Code Information | | 1 <maxno ofPDSCHs ></maxno | | | _ | |
| >>>>PDSCH ID | М | | 9.2.3.10 | | _ | |
| >>>TDD Channelisation Code | М | | 9.2.3.19 | | _ | |

| >PDSCH To Add Information LCR | | 01 | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | reject |
|---|---|--|-----------|--|--------|--------|
| >>Repetition Period | М | | 9.2.3.16 | | _ | |
| >>Repetition Length | М | | 9.2.3.15 | | _ | |
| >>TDD Physical | М | | 9.2.3.20 | | _ | |
| Channel Offset | | | | | | |
| >>DL Timeslot Information LCR | | 1 <maxno ofDLtsLCR</maxno | | | - | |
| >>>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >>>Midamble Shift LCR | М | | 9.2.3.7A | | _ | |
| >>>TFCI Presence | М | | 9.2.1.57 | | _ | |
| >>>DL Code Information LCR | | 1 <maxno ofPDSCHs ></maxno | | | - | |
| >>>PDSCH ID | М | | 9.2.3.10 | | _ | |
| >>>TDD Channelisation Code LCR | М | | 9.2.3.19a | | _ | |
| >>>>TDD DL DPCH Time Slot Format LCR | 0 | | 9.2.3.19D | | YES | reject |
| >>TSTD Indicator | 0 | | 9.2.1.64 | | YES | reject |
| >PDSCH To Add Information 7.68Mcps | | 01 | | Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84Mcps TDD. | YES | reject |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>TDD Physical | M | | 9.2.3.20 | | _ | |
| Channel Offset | | | | | | |
| >>DL Timeslot | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information 7.68Mcps | | ofDLts> | | | | |
| >>>Time Slot | M | | 9.2.3.23 | - | _ | |
| >>>Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | _ | |
| >>>TFCI Presence | М | | 9.2.1.57 | | _ | |
| >>>DL Code | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information 7.68Mcps | | ofPDSCHs > | | | | |
| >>>>PDSCH ID 7.68Mcps | М | | 9.2.3.43 | | _ | |
| >>>TDD Channelisation Code 7.68Mcps | M | | 9.2.3.34 | | _ | |
| PDSCH Sets To Modify | | 0 <maxno of PDSCHSe ts></maxno | | | GLOBAL | reject |
| >PDSCH Set ID | М | | 9.2.3.11 | | _ | |

| >CHOICE HCR or LCR or | М | | | See note 1 | _ | |
|------------------------------------|-----|---|-----------|------------|--------------|--------|
| 7.68 Mcps | IVI | | | below | _ | |
| >>3.84Mcps TDD | | | | Bolow | _ | |
| >>>PDSCH To Modify | | 1 | | | YES | reject |
| Information | | | | | | |
| >>>Repetition | 0 | | 9.2.3.16 | | _ | |
| Period | | | | | | |
| >>>Repetition | 0 | | 9.2.3.15 | | _ | |
| Length | | | | | | |
| >>>TDD Physical | 0 | | 9.2.3.20 | | _ | |
| Channel Offset | | | | | | |
| >>>>DL Timeslot | | 0 <maxno ofDLts></maxno | | | _ | |
| Information | N 4 | OIDLIS> | 0.0.0.00 | | | |
| >>>>Time Slot | M | | 9.2.3.23 | | _ | |
| >>>>Midamble | 0 | | 9.2.3.7 | | _ | |
| Shift And Burst | | | | | | |
| Type >>>>TFCI | 0 | | 9.2.1.57 | | _ | |
| Presence | | | 0.2.1.07 | | | |
| >>>>DL Code | | 0 <maxno< td=""><td></td><td></td><td> </td><td></td></maxno<> | | | | |
| Information | | ofPDSCHs | | | | |
| mormation | | > | | | | |
| >>>>PDSCH | M | | 9.2.3.10 | | _ | |
| ID | | | | | | |
| >>>>TDD | М | | 9.2.3.19 | | _ | |
| Channelisation | | | | | | |
| Code | | | | | | |
| >>1.28Mcps TDD | | 1 | | | YES | reject |
| >>>PDSCH To Modify Information LCR | | , | | | 123 | reject |
| >>>Repetition | 0 | | 9.2.3.16 | | _ | |
| Period | | | 0.2.00 | | | |
| >>>Repetition | 0 | | 9.2.3.15 | | _ | |
| Length | | | | | | |
| >>>>TDD Physical | 0 | | 9.2.3.20 | | _ | |
| Channel Offset | | | | | | |
| >>>DL Timeslot | | 0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<> | | | - | |
| Information LCR | | ofDLtsLCR > | | | | |
| >>>>Time Slot | M | | 9.2.3.24A | | _ | |
| LCR | | | 0007: | | 1 | |
| >>>>Midamble | 0 | | 9.2.3.7A | | _ | |
| Shift LCR | 0 | | 9.2.1.57 | | 1 | |
| >>>>TFCI | | | ₹.∠.1.3/ | | _ | |
| Presence >>>>DL Code | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| >>>>DL Gode Information LCR | | ofPDSCHs | | | | |
| IIIIOIIIIAUOII LUR | | > | | | | |
| >>>>PDSCH | M | | 9.2.3.10 | | _ | |
| ID | | | | | | |
| >>>>TDD | M | | 9.2.3.19a | | _ | |
| Channelisation | | | | | | |
| Code LCR | | | 0.0.0.405 | | \ | w-!- 1 |
| >>>>TDD DL | 0 | | 9.2.3.19D | | YES | reject |
| DPCH Time Slot | | | | | | |
| Format LCR | | | | | + | |
| >>7.68Mcps TDD | | 1 | | | YES | reject |
| >>>PDSCH To Modify | | , | | | 153 | reject |
| Information 7.68Mcps | | | | | | |

| _ | 1 | 1 | 1 | | | |
|---------------------------------|----------|---|---------------------|-----------------------------|--------|--------|
| >>>Repetition Period | 0 | | 9.2.3.16 | | - | |
| >>>Repetition | 0 | | 9.2.3.15 | | _ | |
| Length | | | | | | |
| >>>TDD Physical Channel Offset | 0 | | 9.2.3.20 | | _ | |
| >>>DL Timeslot | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information | | ofDLts> | | | | |
| 7.68Mcps | | | | | | |
| >>>>Time Slot | M | | 9.2.3.23 | | _ | |
| >>>>Midamble | 0 | | 9.2.3.35 | | _ | |
| Shift And Burst | | | | | | |
| Type 7.68Mcps | | | 0.04.55 | | | |
| >>>>TFCI | 0 | | 9.2.1.57 | | _ | |
| Presence | | 0 | | | | |
| >>>>DL Code | | 0 <maxno ofpdschs<="" td=""><td></td><td></td><td>_</td><td></td></maxno> | | | _ | |
| Information 7.68Mcps | | > | | | | |
| >>>>PDSCH | M | | 9.2.3.43 | | _ | |
| ID 7.68Mcps | ''' | | 0.2.0.10 | | | |
| >>>>TDD 7:00Nicps | M | | 9.2.3.34 | | _ | |
| Channelisation | | | | | | |
| Code 7.68Mcps | | | | | | |
| PDSCH Sets To Delete | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| | | of | | | | |
| | | PDSCHSe ts> | | | | |
| >PDSCH Set ID | M | 137 | 9.2.3.11 | | _ | |
| PUSCH Sets To Add | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| | | of | | | | , |
| | | PUSCHSe | | | | |
| >PUSCH Set ID | M | ts> | 9.2.3.13 | | _ | |
| >PUSCH To Add | | 01 | | Mandatory for | YES | reject |
| Information | | | | 3.84Mcps TDD. | | • |
| | | | | Not Applicable | | |
| | | | | to 1.28Mcps TDD or | | |
| | | | | 7.68Mcps TDD. | | |
| >>Repetition Period | М | | 9.2.3.16 | | | |
| >>Repetition Length | M | | 9.2.3.15 | | _ | · |
| >>TDD Physical | M | | 9.2.3.20 | | _ | |
| Channel Offset | | | | | | |
| >>UL Timeslot | | 1 <maxno ofULts></maxno | | | _ | |
| Information | N 4 | OIOLIS> | 0.0.0.00 | | | |
| >>>Time Slot | M | | 9.2.3.23 9.2.3.7 | | _ | |
| >>>Midamble Shift | IVI | | 3.2.3.1 | | _ | |
| And Burst Type >>>TFCI Presence | M | | 9.2.1.57 | | _ | |
| >>>IFCI Presence | 141 | 1 <maxno< td=""><td>0.2.1.07</td><td></td><td>_</td><td></td></maxno<> | 0.2.1.07 | | _ | |
| >>>UL Code Information | | ofPUSCHs | | | | |
| | | > | | | | |
| >>>>PUSCH ID | M | | 9.2.3.12 | | - | |
| >>>>TDD | M | | 9.2.3.19 | | - | |
| Channelisation Code | | 0.4 | | Mandatan | \/F0 | wet |
| >PUSCH To Add | | 01 | | Mandatory for 1.28Mcps TDD. | YES | reject |
| Information LCR | | | | Not Applicable | | |
| | | | | to 3.84Mcps | | |
| | | | | TDD or | | |
| | <u> </u> | | <u> </u> | 7.68Mcps TDD. | | |

| >>Repetition Period | М | | 9.2.3.16 | | _ | |
|---|-----|---|----------------------|-------------------------------|------------------|--------|
| >>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>TDD Physical | M | 1 | 9.2.3.20 | | _ | |
| Channel Offset | | | 0.2.0.20 | | | |
| >>UL Timeslot | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information LCR | | ofULtsLCR | | | | |
| | | > | | | | |
| >>>Time Slot LCR | M | | 9.2.3.24A | | - | |
| >>>Midamble Shift | M | | 9.2.3.7A | | _ | |
| LCR | | | 0.04.57 | | | |
| >>>TFCI Presence | М | 4 | 9.2.1.57 | | - | |
| >>>UL Code | | 1 <maxno ofpuschs<="" td=""><td></td><td></td><td>_</td><td></td></maxno> | | | _ | |
| Information LCR | | > | | | | |
| >>>PUSCH ID | M | | 9.2.3.12 | | _ | |
| >>>TDD | M | | 9.2.3.19a | | - | |
| Channelisation | | | | | | |
| Code LCR >>>>TDD UL | 0 | | 9.2.3.21C | | YES | reject |
| DPCH Time Slot | | | 3.2.3.210 | | 120 | 10,000 |
| Format LCR | | | | | | |
| >PUSCH To Add | | 01 | | Mandatory for | YES | reject |
| Information 7.68Mcps | | | | 7.68Mcps TDD. Not Applicable | | |
| | | | | to 1.28Mcps | | |
| | | | | TDD or 3.84 | | |
| | | | | Mcps TDD. | | |
| >>Repetition Period | M | | 9.2.3.16 | | _ | |
| >>Repetition Length | M | | 9.2.3.15 | | _ | |
| >>TDD Physical | M | | 9.2.3.20 | | - | |
| Channel Offset | | | | | | |
| >>UL Timeslot | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information 7.68Mcps | | ofULts> | | | | |
| >>>Time Slot | M | | 9.2.3.23 | | - | |
| >>>Midamble Shift | М | | 9.2.3.35 | | _ | |
| And Burst Type | | | | | | |
| 7.68Mcps | M | | 0.24.57 | | | |
| >>>TFCI Presence | IVI | 1 | 9.2.1.57 | | _ | |
| >>>UL Code | | 1 <maxno ofpuschs<="" td=""><td></td><td></td><td>_</td><td></td></maxno> | | | _ | |
| Information 7.68Mcps | | > | | | | |
| >>>>PUSCH ID | М | | 9.2.3.12 | | _ | |
| >>>>TDD | М | | 9.2.3.34 | | - | |
| Channelisation Code | | | | | | |
| 7.68Mcps | | | | | i | |
| | | | | | | |
| PUSCH Sets To Modify | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | | | GLOBAL | reject |
| PUSCH Sets To Modify | | of | | | GLOBAL | reject |
| PUSCH Sets To Modify | | of PUSCHSe | | | GLOBAL | reject |
| · | M | of | 9.2.3.13 | | GLOBAL - | reject |
| >PUSCH Set ID | M | of PUSCHSe | 9.2.3.13 | See note 1 | GLOBAL - - | reject |
| · | | of PUSCHSe | 9.2.3.13 | See note 1 below | GLOBAL | reject |
| >PUSCH Set ID >CHOICE HCR or LCR or | | of PUSCHSe | 9.2.3.13 | | GLOBAL | reject |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps | | of PUSCHSe | 9.2.3.13 | | GLOBAL YES | reject |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps >>3.84Mcps TDD | M | of PUSCHSe ts> | | | - - | |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps >>3.84Mcps TDD >>PUSCH To Modify | | of PUSCHSe ts> | 9.2.3.13 | | - - | |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps >>3.84Mcps TDD >>>PUSCH To Modify Information | M O | of PUSCHSe ts> | 9.2.3.16 | | - - | |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps >>3.84Mcps TDD >>PUSCH To Modify Information >>>Repetition | M | of PUSCHSe ts> | | | - - | |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps >>3.84Mcps TDD >>PUSCH To Modify Information >>>Repetition Period >>>Repetition Length | M O | of PUSCHSe ts> | 9.2.3.16 9.2.3.15 | | - - | |
| >PUSCH Set ID >CHOICE HCR or LCR or 7.68Mcps >>3.84Mcps TDD >>PUSCH To Modify Information >>>Repetition Period >>>>Repetition | M O | of PUSCHSe ts> | 9.2.3.16 | | - - | |

| >>>>UL Timeslot | | 0 <maxno< th=""><th></th><th></th><th>_</th><th></th></maxno<> | | | _ | |
|----------------------|----------|--|---|--------|-----|----------|
| Information | | ofULts> | | | | |
| >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>>Midamble | 0 | | 9.2.3.7 | | | |
| Shift And Burst | | | 0.2.0.7 | | | |
| Type | | | | | | |
| >>>>Type | 0 | | 9.2.1.57 | | | |
| | | | 9.2.1.37 | | | |
| Presence | | 0 <maxno< td=""><td></td><td></td><td></td><td></td></maxno<> | | | | |
| >>>>UL Code | | ofPUSCHs | | | _ | |
| Information | | > | | | | |
| >>>>PUSCH | М | | 9.2.3.12 | | _ | |
| ID | | | | | | |
| >>>>TDD | М | | 9.2.3.19 | | _ | |
| Channelisation | | | | | | |
| Code | | | | | | |
| >>1.28Mcps TDD | | | | | _ | |
| >>>PUSCH To Modify | | 1 | | | YES | reject |
| Information LCR | | | | | | |
| >>>Repetition | 0 | | 9.2.3.16 | | _ | |
| Period | | | | | | |
| >>>Repetition | 0 | | 9.2.3.15 | | _ | |
| Length | | | | | | |
| >>>TDD Physical | 0 | | 9.2.3.20 | | | |
| Channel Offset | | | 0.2.0.20 | | | |
| >>>UL Timeslot | | 0 <maxno< td=""><td></td><td></td><td></td><td></td></maxno<> | | | | |
| Information LCR | | ofULtsLCR | | | | |
| information LCR | | > | | | | |
| >>>>Time Slot | М | | 9.2.3.24A | | _ | |
| LCR | | | | | | |
| >>>>Midamble | 0 | | 9.2.3.7A | | _ | |
| Shift LCR | | | | | | |
| >>>>TFCI | 0 | | 9.2.1.57 | | _ | |
| Presence | | | | | | |
| >>>>UL Code | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information LCR | | ofPUSCHs | | | | |
| | | > | | | | |
| >>>>PUSCH | М | | 9.2.3.12 | | _ | |
| ID | | | | | | |
| >>>>TDD | М | | 9.2.3.19a | | _ | |
| Channelisation | | | | | | |
| Code LCR | | | | | | |
| >>>>TDD UL | 0 | | 9.2.3.21C | | YES | reject |
| DPCH Time Slot | | | | | | |
| Format LCR | | | | | | |
| >>7.68Mcps TDD | | | | | _ | |
| >>>PUSCH To Modify | | 1 | | | YES | reject |
| Information 7.68Mcps | | | | | | |
| >>>Repetition | 0 | | 9.2.3.16 | \Box | _ | |
| Period | | | | | | |
| >>>Repetition | 0 | | 9.2.3.15 | | _ | |
| Length | | | <u> </u> | | | |
| >>>>TDD Physical | 0 | | 9.2.3.20 | | - | |
| Channel Offset | | | | | | |
| >>>UL Timeslot | | 0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<> | | | - | |
| Information | | ofULts> | | | | |
| 7.68Mcps | | | | | | |
| >>>>Time Slot | М | | 9.2.3.23 | | _ | |
| Tille Olot | <u> </u> | | | | | <u> </u> |

| | 1 _ | T | T = = | T | 1 | |
|--|-----|--|------------------------------------|--|--------|--------|
| >>>>Midamble Shift And Burst | 0 | | 9.2.3.35 | | _ | |
| Type 7.68Mcps | | | | | | |
| >>>>TFCI Presence | 0 | | 9.2.1.57 | | | |
| >>>>UL Code | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information | | ofPUSCHs | | | | |
| 7.68Mcps | | > | | | | |
| >>>>PUSCH | М | | 9.2.3.12 | | _ | |
| ID | | | | | | |
| >>>>TDD | М | | 9.2.3.34 | | _ | |
| Channelisation | | | | | | |
| Code 7.68Mcps | | | | | | |
| PUSCH Sets To Delete | | 0 <maxno ofPUSCH Sets></maxno | | | GLOBAL | reject |
| >PUSCH Set ID | М | | 9.2.3.13 | | _ | |
| HS-PDSCH TDD | | 01 | | | GLOBAL | reject |
| Information | | | | | | |
| >DL Timeslot and Code Information | | 0 <maxno ofDLts></maxno | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD. | - | |
| >>Time Slot | M | | 9.2.3.23 | | _ | |
| >>Midamble Shift And | M | | 9.2.3.7 | | _ | |
| Burst Type | | | | | | |
| >>Codes | | 1 <maxno ofHSPDS CHs></maxno | | | - | |
| >>>TDD Channelisation Code | М | | 9.2.3.19 | | _ | |
| >>HS-PDSCH and HS- | 0 | | Maximum | Maximum | YES | reject |
| SCCH Total Power | | | Transmissio n Power 9.2.1.40 | transmission power to be allowed for HS- PDSCH and HS-SCCH codes in the timeslot | | , |
| >DL Timeslot and Code Information LCR per UARFCN | | 0 <maxfreq uencyinCe II></maxfreq | | Mandatory for 1.28Mcps TDD Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. See note 2 below | EACH | reject |
| >>DL Timeslot and Code Information LCR | | 0 <maxno ofDLtsLCR</maxno | | | _ | |
| | | > | | | | |
| >>>Time Slot LCR | M | | 9.2.3.24A | | - | |
| >>>Midamble Shift LCR | M | | 9.2.3.7A | | _ | |
| >>>Codes LCR | | 1 <maxno ofHSPDS CHs></maxno | | | - | |
| >>>>TDD | M | | 9.2.3.19 | | _ | |
| Channelisation Code | | | | | | |

| >>>HS-PDSCH and | 0 | | Maximum | Maximum | YES | reject |
|---|---|---|---|---|--------|-------------|
| HS-SCCH Total Power | | | Transmissio n Power 9.2.1.40 | transmission power to be allowed for HS- PDSCH and HS-SCCH codes in the | | |
| | | | | timeslot | | |
| >>>HS-PDSCH and HS-SCCH Total Power per CELL PORTION | | 0 <maxnr OfCellPorti onsLCR></maxnr | | | EACH | ignore |
| >>>>Cell Portion LCR ID | М | | 9.2.3.107 | | _ | |
| >>>> HS-PDSCH and HS-SCCH Total Power Value for CELL PORTION | M | | Maximum Transmissio n Power 9.2.1.40 | | - | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | - | |
| >DL Timeslot and Code Information 7.68Mcps | | 0 <maxno ofDLts></maxno | | Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps TDD. | GLOBAL | reject |
| >>Time Slot | M | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | - | |
| >>Codes 7.68Mcps | | 1 <maxno ofHSPDS CHs768></maxno | | | - | |
| >>>TDD Channelisation Code 7.68Mcps | М | | 9.2.3.34 | | - | |
| >>HS-PDSCH and HS- SCCH Total Power | 0 | | Maximum Transmissio n Power 9.2.1.40 | Maximum transmission power to be allowed for HS- PDSCH and HS-SCCH codes in the timeslot | - | |
| Add to HS-SCCH | | 01 | | | GLOBAL | reject |
| Resource Pool | | | | | | |
| >HS-SCCH Information | | 0 <maxno ofHSSCC Hs></maxno | | Applicable to 3.84Mcps TDD only | - | |
| >>HS-SCCH ID | М | | 9.2.3.5Ga | | _ | |
| >>Time Slot | М | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type | М | | 9.2.3.7 | | - | |
| >>TDD Channelisation Code | М | | 9.2.3.19 | | - | |
| >>Maximum HS-SCCH Power | М | | DL Power 9.2.1.21 | | - | |
| >>HS-SICH Information | | 1 | | | _ | |
| >>>HS-SICH ID | М | | 9.2.3.5Gb | | _ | |
| >>>ロ9-9ICH ID | | <u> </u> | 3.2.3.335 | ļ | | |

| >>>Time Slot | М | | 9.2.3.23 | | _ | |
|---------------------------|-----|---|----------------------|--------------------------------|-----|--------|
| >>>Midamble Shift | М | | 9.2.3.7 | | _ | |
| And Burst Type | | | | | | |
| >>>TDD | М | | 9.2.3.19 | | _ | |
| Channelisation Code | | | | | | |
| >HS-SCCH Information | | 0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<> | | Applicable to | _ | |
| LCR | | ofHSSCC | | 1.28Mcps TDD | | |
| | | Hs> | | only | | |
| | | | | See note 3 | | |
| | M | | 9.2.3.5Ga | below If the Extended | | |
| >>HS-SCCH ID | IVI | | 3.2.3.3Ga | HS-SCCH ID IE | _ | |
| | | | | is included in | | |
| | | | | the HS-SCCH | | |
| | | | | Information | | |
| | | | | LCR IE, the HS-SCCH ID IE | | |
| | | | | shall be | | |
| | | | | ignored. | | |
| >>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | М | | 9.2.3.7A | | _ | |
| >>First TDD | M | | TDD | | - | |
| Channelisation Code | | | Channelisat | | | |
| | | | ion Code 9.2.3.19 | | | |
| >>Second TDD | М | | 7DD | | | |
| Channelisation Code | 141 | | Channelisat | | | |
| Chamiensation Code | | | ion Code | | | |
| | | | 9.2.3.19 | | | |
| >>Maximum HS-SCCH | М | | DL Power | | _ | |
| Power | | 4 | 9.2.1.21 | | | |
| >>HS-SICH Information LCR | | 1 | | | _ | |
| >>>HS-SICH ID | M | | 9.2.3.5Gb | If the Extended | | |
| >>> 13-310111D | 141 | | 0.2.0.000 | HS-SICH ID IE | | |
| | | | | is included in | | |
| | | | | the HS-SICH | | |
| | | | | Information | | |
| | | | | LCR IE, the HS-SICH ID IE | | |
| | | | | shall be | | |
| | | | | ignored. | | |
| >>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>>Midamble Shift | М | | 9.2.3.7A | | - | |
| LCR | | | | | | |
| >>>TDD | М | | 9.2.3.19 | | - | |
| Channelisation Code | | | | | | |
| >>>Extended HS-SICH | 0 | | 9.2.3.5K | The Extended | YES | ignore |
| ID | | | | HS-SICH ID IE | | |
| | | | | shall be used if the HS-SICH | | |
| | | | | identity has a | | |
| | | | | value larger | | |
| | | | 0.0.5.7 | than 31. | \ | |
| >>Extended HS-SCCH | 0 | | 9.2.3.5J | The Extended | YES | ignore |
| ID | | | | HS-SCCH ID IE shall be used if | | |
| | | | | the HS-SCCH | | |
| | | | | identity has a | | |
| | | | | value larger | | |
| | | | | than 31. | | |

| | | | 0.04.05 | Commercial ! ! | YES- | 1, |
|---|---|---|----------------------|---|--------|--------|
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | | ignore |
| >>HS-SICH Reference Signal Information | 0 | | 9.2.3.103 | | YES | ignore |
| >HS-SCCH Information 7.68Mcps | | 0 <maxno ofHSSCC Hs></maxno | | Applicable to 7.68Mcps TDD only | GLOBAL | reject |
| >>HS-SCCH ID | М | | 9.2.3.5Ga | | _ | |
| >>Time Slot | М | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type 7.68Mcps | М | | 9.2.3.35 | | _ | |
| >>TDD Channelisation Code 7.68Mcps | М | | 9.2.3.34 | | _ | |
| >>Maximum HS-SCCH Power | М | | DL Power 9.2.1.21 | | - | |
| >>HS-SICH Information 7.68Mcps | | 1 | | | _ | |
| >>>HS-SICH ID | М | | 9.2.3.5Gb | | _ | |
| >>>Time Slot | М | | 9.2.3.23 | | _ | |
| >>>Midamble Shift | М | | 9.2.3.35 | | _ | |
| And Burst Type 7.68Mcps | | | | | | |
| >>>TDD Channelisation Code 7.68Mcps | M | | 9.2.3.34 | | _ | |
| Modify HS-SCCH Resource Pool | | 01 | | | GLOBAL | reject |
| >HS-SCCH Information | | 0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<> | | Applicable to | _ | |
| 2110 00011 Illiotiniacion | | ofHSSCC Hs> | | 3.84Mcps TDD only | | |
| >>HS-SCCH ID | М | | 9.2.3.5Ga | | _ | |
| >>Time Slot | 0 | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type | 0 | | 9.2.3.7 | | _ | |
| >>TDD Channelisation Code | 0 | | 9.2.3.19 | | _ | |
| >>Maximum HS-SCCH Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >>HS-SICH Information | | 01 | | | _ | |
| >>>HS-SICH ID | М | | 9.2.3.5Gb | | _ | |
| >>>Time Slot | 0 | | 9.2.3.23 | | - | |
| >>>Midamble Shift And Burst Type | 0 | | 9.2.3.7 | | _ | |
| >>>TDD | 0 | | 9.2.3.19 | | _ | |
| Channelisation Code | | | | | | |
| >HS-SCCH Information | | 0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<> | | Applicable to | _ | |
| LCR | | ofHSSCC Hs> | | 1.28Mcps TDD only See note 3 below | | |

| >>HS-SCCH ID | M | | 9.2.3.5Ga | If the Extended HS-SCCH ID IE is included in the HS-SCCH Information LCR IE, the HS-SCCH ID IE shall be ignored. | П | |
|---|---|----|--|--|-----|--------|
| >>Time Slot LCR | 0 | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | 0 | | 9.2.3.7A | | _ | |
| >>First TDD Channelisation Code | 0 | | TDD Channelisat ion Code 9.2.3.19 | | - | |
| >>Second TDD Channelisation Code | 0 | | TDD Channelisat ion Code 9.2.3.19 | | I | |
| >>Maximum HS-SCCH Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >>HS-SICH Information | | 01 | | | _ | |
| LCR | | | | | | |
| >>>HS-SICH ID | M | | 9.2.3.5Gb | If the Extended HS-SICH ID IE is included in the HS-SICH Information LCR IE, the HS-SICH ID IE shall be ignored. | | |
| >>>Time Slot LCR | 0 | | 9.2.3.24A | | ı | |
| >>Midamble Shift LCR | 0 | | 9.2.3.7A | | ı | |
| >>>TDD Channelisation Code | 0 | | 9.2.3.19 | | ı | |
| >>>Extended HS-SICH ID | 0 | | 9.2.3.5K | The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. | YES | ignore |
| >>Extended HS-SCCH ID | 0 | | 9.2.3.5J | The Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31. | YES | ignore |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable to 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| >>HS-SICH Reference Signal Information Modify | | 01 | | | YES | reject |
| >>>HS-SICH Reference Signal Information | 0 | | 9.2.3.103 | | _ | |

| >HS-SCCH Information 7.68Mcps | | 0 <maxno ofHSSCC Hs></maxno | | Applicable to 7.68Mcps TDD only | GLOBAL | reject |
|--|-----|---|----------------------|---------------------------------|--------|--------|
| >>HS-SCCH ID | M | | 9.2.3.5Ga | | _ | |
| >>Time Slot | 0 | | 9.2.3.23 | | _ | |
| >>Midamble Shift And | M | | 9.2.3.35 | | _ | |
| Burst Type 7.68Mcps | | | | | | |
| >>TDD Channelisation | М | | 9.2.3.34 | | _ | |
| Code 7.68Mcps | | | | | | |
| >>Maximum HS-SCCH | 0 | | DL Power | | _ | |
| Power | | | 9.2.1.21 | | | |
| >>HS-SICH Information | | 01 | | | _ | |
| 7.68Mcps | | | | | | |
| >>>HS-SICH ID | M | | 9.2.3.5Gb | | _ | |
| >>>Time Slot | 0 | | 9.2.3.23 | | _ | |
| >>>Midamble Shift | М | | 9.2.3.35 | | _ | |
| And Burst Type | | | | | | |
| 7.68Mcps | | | 1 | | | |
| >>>TDD | М | | 9.2.3.34 | | _ | |
| Channelisation Code | | | | | | |
| 7.68Mcps | | | | | | |
| Delete from HS-SCCH | | 0 <maxno< td=""><td></td><td>For 1.28Mcps</td><td>GLOBAL</td><td>reject</td></maxno<> | | For 1.28Mcps | GLOBAL | reject |
| Resource Pool | | of | | TDD ,see note | | |
| | | HSSCCHs | | 3 below | | |
| 110 0001110 | M | > | 9.2.3.5Ga | For 1 20Mono | | |
| >HS-SCCH ID | IVI | | 9.2.3.5Ga | For 1.28Mcps TDD, if the | _ | |
| | | | | Extended HS- | | |
| | | | | SCCH ID IE is | | |
| | | | | included in the | | |
| | | | | Delete from | | |
| | | | | HS-SCCH | | |
| | | | | Resource Pool IE, the HS- | | |
| | | | | SCCH ID IE | | |
| | | | | shall be ignored | | |
| >Extended HS-SCCH ID | 0 | | 9.2.3.5J | Applicable to | YES | ignore |
| | | | | 1.28Mcps TDD | | - |
| | | | | only, the | | |
| | | | | Extended HS- SCCH ID IE | | |
| | | | | shall be used if | | |
| | | | | the HS-SCCH | | |
| | | | | identity has a | | |
| | | | | value larger | | |
| | | | <u> </u> | than 31. | | |
| Configuration Generation ID | 0 | | 9.2.1.16 | | YES | reject |
| E-PUCH Information | | 01 | | 3.84Mcps TDD | GLOBAL | reject |
| LTCI Processo | N/ | | 0 2 2 5 0 | only | | |
| >LTGI Presence >SNPL Reporting Type | M | | 9.2.3.58 9.2.3.62 | | _ | |
| >Midamble Shift And Burst | M | | 9.2.3.7 | | _ | |
| Type | 141 | | 5.2.5.7 | | | |
| >E-PUCH Timeslot | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information | | ofEPUCHs | | | | |
| | | lots> | | | | |
| >>Time Slot | M | 1 | 9.2.3.23 | | | |
| Add to E-AGCH Resource | | 01 | | 3.84Mcps TDD | GLOBAL | reject |
| Pool | | | | only | | |

| >E-AGCH Information | | 0 <maxno ofEAG CHs></maxno | | | _ | |
|---|---|---|----------------------|--|--------|--------|
| >>E-AGCH ID TDD | М | 002 | 9.2.3.51 | | _ | |
| >>Time Slot | M | | 9.2.3.23 | | _ | |
| >>Midamble Shift And | M | | 9.2.3.7 | | _ + | |
| Burst Type >>TDD Channelisation | M | | | | | |
| Code | | | 9.2.3.19 | | _ | |
| >>Maximum E-AGCH Power | М | | DL Power 9.2.1.21 | | _ | |
| Modify E-AGCH Resource Pool | | 01 | | 3.84Mcps TDD only | GLOBAL | reject |
| >E-AGCH Information | | 0 <maxno ofEAG CHs></maxno | | | - | |
| >>E-AGCH ID TDD | М | | 9.2.3.51 | | _ | |
| >>Time Slot | 0 | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type | 0 | | 9.2.3.7 | | _ | |
| >>TDD Channelisation Code | 0 | | 9.2.3.19 | | _ | |
| >>Maximum E-AGCH Power | 0 | | DL Power 9.2.1.21 | | _ | |
| Delete from E-AGCH | | 0 <maxno< td=""><td>J.Z.1.Z1</td><td></td><td>GLOBAL</td><td>reject</td></maxno<> | J.Z.1.Z1 | | GLOBAL | reject |
| Resource Pool | | ofEAG CHs> | | | GLOBAL | reject |
| >E-AGCH ID TDD | М | 0,10 | 9.2.3.51 | | _ | |
| E-HICH Information | | 01 | 0.2.0.01 | 3.84Mcps TDD only | GLOBAL | reject |
| >Midamble Shift And Burst Type | М | | 9.2.3.7 | City | _ | |
| >TDD Channelisation Code | М | | 9.2.3.19 | | _ | |
| >Maximum E-HICH Power | М | | DL Power 9.2.1.21 | | _ | |
| Maximum Generated Received Total Wide Band Power in Other Cells | 0 | | 9.2.3.63 | Applicable to 3.84Mcps and 7.68 Mcps TDD only | YES | reject |
| E-PUCH Information 7.68Mcps | | 01 | | 7.68Mcps TDD only | GLOBAL | reject |
| >LTGI Presence | М | | 9.2.3.58 | - | _ | |
| >SNPL Reporting Type | M | 1 | 9.2.3.62 | | _ | |
| >Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | - | |
| >E-PUCH Timeslot Information | | 1 <maxno ofEPUCHs lots></maxno | | | _ | |
| >>Time Slot | М | | 9.2.3.23 | | _ | |
| Add to E-AGCH Resource Pool 7.68Mcps | | 01 | | 7.68Mcps TDD only | GLOBAL | reject |
| >E-AGCH Information | | 0 <maxno ofEAG</maxno | | , | _ | |
| SE ACCUID TOD | M | CHs> | 0.2.2.54 | | | |
| >>E-AGCH ID TDD >>Time Slot | M | - | 9.2.3.51 9.2.3.23 | | _ | |
| >> Time Slot >> Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.23 | | _ | |
| >>TDD Channelisation Code 7.68Mcps | M | | 9.2.3.34 | | _ | |
| >>Maximum E-AGCH Power | M | | DL Power 9.2.1.21 | | _ | |
| Modify E-AGCH Resource | | 01 | J.Z. I.Z I | 7.68Mcps TDD only | GLOBAL | reject |
| Pool 7.68Mcps | | | | Offiny | | |

| >E-AGCH Information | | 0 <maxno ofEAG CHs></maxno | | | - | |
|---|---|--|----------------------|-------------------|--------|--------|
| >>E-AGCH ID TDD | M | | 9.2.3.51 | | _ | |
| >>Time Slot | 0 | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type 7.68Mcps | 0 | | 9.2.3.35 | | ı | |
| >>TDD Channelisation Code 7.68Mcps | 0 | | 9.2.3.34 | | _ | |
| >>Maximum E-AGCH Power | 0 | | DL Power 9.2.1.21 | | _ | |
| E-HICH Information 7.68Mcps | | 01 | | 7.68Mcps TDD only | GLOBAL | reject |

| 1 | | | , | | | |
|--|-----|---|--|---|--------|--------|
| >Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | - | |
| >TDD Channelisation Code 7.68Mcps | М | | 9.2.3.34 | | - | |
| >Maximum E-HICH Power | М | | DL Power 9.2.1.21 | | - | |
| E-PUCH Information 1.28Mcps | | 01 | 0.22 | 1.28Mcps TDD only | GLOBAL | reject |
| >LTGI Presence | М | | 9.2.3.58 | Office | _ | |
| >SNPL Reporting Type | M | | 9.2.3.62 | | _ | |
| >E-PUCH Timeslot information 1.28Mcps per UARFCN | 101 | 0 <maxfr equencyin Cell></maxfr | 3.2.3.02 | See note 2 below | | |
| >>E-PUCH Timeslot | | 0 <maxno< td=""><td></td><td></td><td></td><td></td></maxno<> | | | | |
| Information 1.28Mcps | | ofEPUCHs lotsLCR> | | | _ | |
| >>>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >>>Midamble Shift LCR | М | | 9.2.3.7A | | - | |
| >>>Codes LCR | | 1 <maxno ofEPUCHc odes></maxno | | | - | |
| >>>TDD Channelisation Code | М | | 9.2.3.19 | | - | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| Add to E-AGCH Resource Pool 1.28Mcps | | 01 | | 1.28Mcps TDD only | GLOBAL | reject |
| >E-AGCH Information 1.28Mcps | | 1 <maxno ofEAG CHs></maxno | | | - | |
| >>E-AGCH ID TDD | М | 0/102 | 9.2.3.51 | | _ | |
| >>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | M | | 9.2.3.7A | | _ | |
| >>First TDD | M | | TDD | | _ | |
| Channelisation Code | IVI | | Channelisat ion Code 9.2.3.19 | | _ | |
| >>Second TDD Channelisation Code | М | | TDD Channelisat ion Code 9.2.3.19 | | - | |
| >>Maximum E-AGCH Power | М | | DL Power 9.2.1.21 | | - | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| Modify E-AGCH Resource Pool 1.28Mcps | | 01 | | 1.28Mcps TDD only | GLOBAL | reject |
| >E-AGCH Information 1.28Mcps | | 1 <maxno ofEAG CHs></maxno | | - | - | |
| >>E-AGCH ID TDD | М | | 9.2.3.51 | | _ | |
| >>Time Slot LCR | 0 | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | 0 | | 9.2.3.7A | | _ | |

| <u>,</u> | | | | | | |
|------------------------|-----|--|-----------------------|-------------------|--------|--------|
| >>First TDD | 0 | | TDD | | _ | |
| Channelisation Code | | | Channelisat | | | |
| | | | ion Code | | | |
| | | | 9.2.3.19 | | | |
| >>Second TDD | 0 | | TDD | | _ | |
| Channelisation Code | | | Channelisat | | | |
| | | | ion Code | | | |
| | | | 9.2.3.19 | | | |
| >>Maximum E-AGCH | 0 | 1 | DL Power | | _ | |
| | ~ | | | | _ | |
| Power | 10 | | 9.2.1.21 | Camparation | \/FC | 1a |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to | YES | ignore |
| | | | | Nt (TS 25.105 | | |
| | | | | [15]). | | |
| | | | | Mandatory for | | |
| | | | | 1.28Mcps TDD | | |
| | | | | when using | | |
| | | | | multiple | | |
| | | | | frequencies. | | |
| Add to E-HICH Resource | | 01 | | 1.28Mcps TDD | GLOBAL | reject |
| Pool 1.28Mcps | | | | only | | - |
| >E-HICH Information | | 1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| 1.28Mcps | | ofEHICHs | | | | |
| | | > | | | | |
| >>E-HICH ID TDD | М | - | 9.2.3.51a | If the Extended | _ | |
| //L-11101110 100 | IVI | | J.Z.J.J1a | E-HICH ID TDD | _ | |
| | | | | - | | |
| | | | | IE is included in | | |
| | | | | the E-HICH | | |
| | | | | Information | | |
| | | | | 1.28Mcps IE, | | |
| | | | | the E-HICH ID | | |
| | | | | TDD IE shall be | | |
| | | | | ignored. | | |
| >>E-HICH Type | M | | 9.2.3.68 | | _ | |
| >>TDD Channelisation | М | _ | 9.2.3.19 | | _ | |
| Code | | <u> </u> | | | | |
| >>Time Slot LCR | М | | 9.2.3.24A | | | · |
| >>Midamble Shift LCR | М | | 9.2.3.7A | | _ | |
| >>Maximum E-HICH | M | | DL Power | | _ | |
| Power | | | 9.2.1.21 | | | |
| >>Extended E-HICH ID | 0 | | 9.2.1.21 9.2.3.51b | Applicable to | YES | ignoro |
| | | | 9.2.3.510 | Applicable to | 150 | ignore |
| TDD | | | | 1.28Mcps TDD | | |
| | | | | only, the | | |
| | | | | Extended E- | | |
| | | | | HICH ID TDD | | |
| | | | | IE shall be used | | |
| | | | | if the E-HICH | | |
| | | | | identity has a | | |
| | | | | value larger | | |
| | | | | than 31. | | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to | YES | ignore |
| | | | | Nt (TS 25.105 | | 3 |
| | | | | [15]). | | |
| | | | | Mandatory for | | |
| | | | | | | |
| | | | | 1.28Mcps TDD | | |
| | | | | when using | | |
| | | | | multiple | | |
| | | | | frequencies. | | |
| Modify E-HICH Resource | | 01 | | 1.28Mcps TDD | GLOBAL | reject |
| Pool 1.28Mcps | | | | only | | |
| >E-HICH Information | | 1 <maxno< td=""><td></td><td></td><td></td><td>·</td></maxno<> | | | | · |
| 1.28Mcps | | ofEHICHs | | | | |
| _ | | > | | | | |
| <u> </u> | • | • | | | | |

| | T | T | T = = = | | Γ | |
|--|---|--|----------------------|--|--------|--|
| >>E-HICH ID TDD | M | | 9.2.3.51a | If the Extended E-HICH ID TDD IE is included in the E-HICH Information 1.28Mcps IE, the E-HICH ID TDD IE shall be ignored. | _ | |
| >>E-HICH Type | 0 | | 9.2.3.68 | J | _ | |
| >>TDD Channelisation Code | 0 | | 9.2.3.19 | | _ | |
| >>Time Slot LCR | 0 | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | 0 | | 9.2.3.7A | | _ | |
| >>Maximum E-HICH Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >>Extended E-HICH ID TDD | 0 | | 9.2.3.51b | Applicable to 1.28Mcps TDD only, the Extended E- HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31. | YES | ignore |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| Delete from E-HICH Resource Pool 1.28Mcps | | 0 <maxno ofEHICHs ></maxno | | 1.28Mcps TDD only | GLOBAL | reject |
| >E-HICH ID TDD | M | | 9.2.3.51a | If the Extended E-HICH ID TDD IE is included in the Delete from E-HICH Resource Pool 1.28Mcps IE, the E-HICH ID TDD IE shall be ignored. | _ | |
| >Extended E-HICH ID TDD | 0 | | 9.2.3.51b | Applicable to 1.28Mcps TDD only, the Extended E- HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31. | YES | ignore |

| | 1 | | 1 | | | |
|---|---|---|---|---|-------------|--------|
| SYNC_UL Partition Information | | 01 | | Applicable to 1.28Mcps TDD to indicate the SYNC_UL partition information for the Primary Frequency. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | GLOBAL | reject |
| >E-RUCCH SYNC_UL codes bitmap | M | | BITSTRING (8) | Each bit indicates availability of a SYNC_UL code, where the SYNC_UL codes are numbered "code 0" to "code 7". The value 1 of a bit indicates that the corresponding SYNC_UL code can be used. The value 0 of a bit indicates that the corresponding SYNC_UL code can be used. The value 0 of a bit indicates that the corresponding SYNC_UL code can not be used. | _ | |
| Maximum Target Received Total Wide Band Power LCR | 0 | | 9.2.3.69 | 1.28Mcps TDD only | YES | reject |
| HS-DSCH Common System Information LCR | 0 | | 9.2.3.72 | 1.28Mcps TDD only | YES | reject |
| Common MAC Flows To Delete LCR | 0 | | 9.2.3.78 | 1.28Mcps TDD only | YES | reject |
| HS-DSCH Paging System Information LCR | 0 | | 9.2.3.73 | 1.28Mcps TDD only | YES | reject |
| Paging MAC Flows to Delete LCR | 0 | | 9.2.3.85 | 1.28Mcps TDD only | YES | reject |
| Common E-DCH System Information LCR | 0 | | 9.2.3.79 | 1.28Mcps TDD only | YES | reject |
| Common UL MAC Flows to Delete LCR | 0 | | Common MAC Flows To Delete LCR 9.2.3.78 | 1.28Mcps TDD only | YES | reject |
| Common E-DCH MAC-d Flows to Delete LCR | 0 | | 9.2.3.86 | 1.28Mcps TDD only | YES | reject |
| Enhanced UE DRX Information LCR | 0 | | 9.2.3.82 | 1.28Mcps TDD only | YES | reject |
| Add to Non-HS-SCCH associated HS-SICH Resource Pool >Non-HS-SCCH associated HS-SICH | | 01 0 <maxno ofnonhsa<="" td=""><td></td><td>1.28Mcps TDD only See note 4 below</td><td>GLOBAL –</td><td>reject</td></maxno> | | 1.28Mcps TDD only See note 4 below | GLOBAL – | reject |
| Information | | HSSICH> | | DGIOW | | |
| >>Non-HS-SCCH associated HS-SICH ID | М | | INTEGER (0255) | | _ | |
| >>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | М | 1 | 9.2.3.7A | | _ | |

| | T | 1 | 1 | 1 | | |
|--|---|--|---|---|--------|--------|
| >>TDD Channelisation Code | М | | 9.2.3.19 | | - | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | - | |
| Modify Non-HS-SCCH associated HS-SICH Resource Pool | | 01 | | 1.28Mcps TDD only | GLOBAL | reject |
| >Non-HS-SCCH associated HS-SICH Information | | 0 <maxno ofNonHSA HSSICH></maxno | | See note 4 below | - | |
| >>Non-HS-SCCH associated HS-SICH ID | М | | INTEGER (0255) | | _ | |
| >>Time Slot LCR | 0 | | 9.2.3.24A | | _ | |
| >>Midamble Shift LCR | 0 | | 9.2.3.7A | | | |
| >>TDD Channelisation Code | 0 | | 9.2.3.19 | | - | |
| >>UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | - | |
| Delete from Non-HS-SCCH associated HS-SICH Resource Pool | | 0 <maxno ofNonHSA HSSICH></maxno | | 1.28Mcps TDD only. See note 4 below | GLOBAL | reject |
| >Non-HS-SCCH associated HS-SICH ID | М | | INTEGER (0255) | | - | |
| Power Control GAP for CELL_FACH | 0 | | INTEGER (1255) | 1) Unit: Number of subframes. Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. | YES | ignore |
| Maximum RTWP per UARFCN information LCR | | 0< maxFrequ encyinCell > | | 1.28Mcps TDD only | GLOBAL | ignore |
| >UARFCN | М | | 9.2.1.65 | | | |
| >Maximum Target Received Total Wide Band Power LCR | М | | 9.2.3.69 | | - | |
| Out-of-sync Detection Window | 0 | | ENUMERA TED (40, 80, 160, 320, 640,) | Unit: ms Applicable to 1.28Mcps TDD. | YES | reject |
| Treset Usage Indicator | 0 | | NÚLL | Applicable to 1.28Mcps TDD only | YES | ignore |

Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.

- Note 2: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxFrequencyinCell are represented by separate ASN.1 structures with different criticalities.
- Note 3: This information element is a simplified representation of the ASN.1. Repetitions 1 to 32 and repetitions 33 to *maxnoofHSSCCHs* are represented by separate ASN.1 structures.
- Note 4: This information element is a simplified representation of the ASN.1. Repetitions 1 to 4 and repetitions 5 to *maxnoofNonHSAHSSICH* are represented by separate ASN.1 structures.

| Range Bound | Explanation |
|------------------------|---|
| maxnoofPDSCHSets | Maximum number of PDSCH Sets in a cell. |
| maxnoofPDSCHs | Maximum number of PDSCH in a cell. |
| maxnoofPUSCHSets | Maximum number of PUSCH Sets in a cell. |
| maxnoofPUSCHs | Maximum number of PUSCH in a cell. |
| maxnoofDLts | Maximum number of Downlink time slots in a cell for 3.84Mcps TDD. |
| maxnoofDLtsLCR | Maximum number of Downlink time slots in a cell for 1.28Mcps TDD. |
| maxnoofULts | Maximum number of Uplink time slots in a cell for 3.84Mcps TDD. |
| maxnoofULtsLCR | Maximum number of Uplink time slots in a cell for 1.28Mcps TDD |
| maxnoofHSSCCHs | Maximum number of HS-SCCHs in a Cell |
| maxnoofHSPDSCHs | Maximum number of HS-PDSCHs in one time slot of a Cell for 1.28Mcps |
| | TDD and 3.84Mcps TDD |
| maxnoofHSPDSCHs768 | Maximum number of HS-PDSCHs in one time slot of a Cell for |
| | 7.68Mcps TDD |
| maxnoofEAGCHs | Maximum number of E-AGCHs in a Cell |
| maxnoofEPUCHslots | Maximum number of E-PUCH time slots in a Cell for 3.84Mcps TDD and 7.68Mcps TDD |
| maxnoofEHICHs | Maximum number of E-HICHs in a Cell |
| maxnoofEPUCHslotsLCR | Maximum number of E-PUCH time slots in a Carrier for 1.28Mcps TDD |
| maxnoofEPUCHcodes | Maximum number of E-PUCH codes in one time slot for 1.28Mcps TDD |
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |
| MaxNrOfCellPortionsLCR | Maximum number of Cell Portions in a cell for 1.28 Mcps TDD |
| maxnoofNonHSAHSSICH | Maximum number of Non-HS-SCCH associated HS-SICH in a cell for 1.28 Mcps TDD |

9.1.63 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|------------------|------------------------------------|-----------------------------|---|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| E-HICH Time Offset | 0 | | 9.2.3.59 | Applicable to 3.84Mcps and 7.68 Mcps TDD only | YES | reject |
| E-HICH Time Offset LCR per UARFCN | | 0 < maxFrequ encyinCell > | | 1.28Mcps TDD only. See note 1 below | EACH | reject |
| >E-HICH Time Offset LCR | M | | 9.2.3.59a | | _ | |
| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Mandatory for 1.28Mcps TDD when using multiple frequencies. | _ | |
| HS-DSCH Common System Information Response | 0 | | 9.2.2.77 | FDD only | YES | ignore |
| HS-DSCH Paging System Information Response | 0 | | 9.2.2.78 | FDD only | YES | ignore |
| Common E-DCH System Information Response | 0 | | 9.2.2.104 | FDD only | YES | Ignore |
| HS-DSCH Common System Information Response LCR | 0 | | 9.2.3.74 | 1.28Mcps TDD only | YES | ignore |
| HS-DSCH Paging System Information Response LCR | 0 | | 9.2.3.75 | 1.28Mcps TDD only | YES | ignore |
| Common E-DCH System Information Response LCR Note 1 This information ele | O mont is a simp | lified represer | 9.2.3.80 | 1.28Mcps TDD only | YES | Ignore |

Note 1 This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxFrequencyinCell are represented by separate ASN.1 structures with different criticalities.

| Range Bound | Explanation |
|--------------------|---|
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CHOICE Cause Level | М | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | M | | 9.2.1.6 | | _ | |
| >Set Specific | | | | TDD Only | | |
| >>Unsuccessful DL Shared Channel Set | | 0 <maxno ofPDSCH Sets></maxno | | | EACH | ignore |
| >>>PDSCH Set ID | М | 00102 | 9.2.3.13 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| >>Unsuccessful UL Shared Channel Set | | 0 <maxno ofPUSCH Sets></maxno | | | EACH | ignore |
| >>>PUSCH Set ID | М | | 9.2.3.13 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| >Extension Cause Level | | | | | | |
| >>UARFCN Specific | | 1 | | Applicable to 1.28Mcps TDD only when using multiple frequencies | YES | ignore |
| >>>Unsuccessful UARFCN | | 0 <maxfreq uencyinCe II></maxfreq | | | EACH | ignore |
| >>>>UARFCN | M | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Used to indicate the carrier on which HSDPA or E-DCH related resources configuration failure occurs. | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| >>>>HS-Cause | 0 | | 9.2.1.6 | Used to indicate the cause of HSDPA configuration. failure | YES | ignore |
| >>>E-Cause | 0 | | 9.2.1.6 | Used to indicate the cause of E-DCH related configuration failure. | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |
| E-HICH Time Offset LCR per UARFCN | | 0 < maxFrequ encyinCell > | | 1.28Mcps TDD only | EACH | ignore |
| >E-HICH Time Offset LCR | М | | 9.2.3.59a | | | |

| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Used to indicate the carrier on which HSDPA or E-DCH related resources configuration failure occurs. | | |
|---|---|----|----------|--|-----|--------|
| Common System Information Response LCR | | 01 | | | YES | ignore |
| >HS-DSCH Common System Information Response LCR | M | | 9.2.3.74 | 1.28Mcps TDD only | | |
| >HS-DSCH Paging System Information Response LCR | 0 | | 9.2.3.75 | 1.28Mcps TDD only | | |
| >Common E-DCH System Information Response LCR | М | | 9.2.3.80 | 1.28Mcps TDD only | | |

| Range Bound | Explanation | | | | |
|--------------------|---|--|--|--|--|
| maxnoofPDSCHSets | Maximum number of PDSCH Sets in a cell | | | | |
| maxnoofPUSCHSets | Maximum number of PUSCH Sets in a cell | | | | |
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell | | | | |

9.1.65 RESET REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |

| CHOICE Reset Indicator | М | | | | YES | ignore |
|--|---|---|----------|--|------|--------|
| >Communication Context | | | | | | |
| >>Communication Context Information | | 1 <maxco mmunicati onContext ></maxco | | | EACH | reject |
| >>>CHOICE Communication Context Type | M | | | | - | |
| >>>>CRNC Communication Context | | | | | | |
| >>>>CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | - | |
| >>>Node B Communication Context | | | | | | |
| >>>>Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All NBCC" shall not be used. | - | |
| >Communication Control Port | | | | | | |
| >>Communication Control Port Information | | 1 <maxc CPinNode B></maxc | | | EACH | reject |
| >>>Communication Control Port ID | М | | 9.2.1.15 | | - | |
| >Node B | | | NULL | | | |

| Range Bound | Explanation |
|-------------------------|---|
| maxCommunicationContext | Maximum number of Communication Contexts that can exist in the Node |
| | В |
| maxCCPinNode B | Maximum number of Communication Control Ports that can exist in the |
| | Node B |

9.1.66 RESET RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.67 DL POWER TIMESLOT CONTROL REQUEST [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|-------|-----------------------------|---|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | М | | 9.2.1.48 | The reserved value "All NBCC' shall not be used. | YES | ignore |
| DL Time Slot ISCP Info | 0 | | 9.2.3.4F | Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD. | YES | ignore |
| DL Time Slot ISCP Info LCR | 0 | | 9.2.3.4P | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD and 7.68Mcps TDD. | YES | ignore |
| Primary CCPCH RSCP | 0 | | 9.2.3.11A | | YES | ignore |
| Primary CCPCH RSCP Delta | 0 | | 9.2.3.11B | | YES | ignore |

9.1.68 RADIO LINK PREEMPTION REQUIRED INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|----------|----------------------------------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | | YES | ignore |
| RL Information | | 0 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | M | | 9.2.1.53 | | _ | |

| Range Bound | Explanation |
|-------------|--|
| maxnoofRLs | Maximum number of radio links for one UE |

9.1.69 INFORMATION EXCHANGE INITIATION REQUEST

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Information Exchange ID | М | | 9.2.1.36C | | YES | reject |
| CHOICE Information Exchange Object Type | М | | | | YES | reject |
| >Cell | | | | | | |
| >>C-ID | M | | 9.2.1.9 | | _ | |
| Information Type | М | | 9.2.1.36D | | YES | reject |
| Information Report Characteristics | М | | 9.2.1.36B | | YES | reject |

9.1.70 INFORMATION EXCHANGE INITIATION RESPONSE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Information Exchange ID | M | | 9.2.1.36C | | YES | ignore |
| CHOICE Information Exchange Object Type | 0 | | | | YES | ignore |
| >Cell | | | | | | |
| >>Requested Data Value | M | | 9.2.1.51A | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.71 INFORMATION EXCHANGE INITIATION FAILURE

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Information Exchange ID | M | | 9.2.1.36C | | YES | ignore |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.72 INFORMATION REPORT

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|----------------|--------------------------|-------------|----------------------|
| | | | Reference | | | |
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Information Exchange ID | M | | 9.2.1.36C | | YES | ignore |
| CHOICE Information Exchange Object Type | М | | | | YES | ignore |
| >Cell | | | | | | |
| >>Requested Data Value Information | М | | 9.2.1.51B | | - | |

9.1.73 INFORMATION EXCHANGE TERMINATION REQUEST

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|----------------|--------------------------|-------------|----------------------|
| | | | Reference | • | | , |
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Information Exchange ID | M | | 9.2.1.36C | | YES | ignore |

9.1.74 INFORMATION EXCHANGE FAILURE INDICATION

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Information Exchange ID | M | | 9.2.1.36C | | YES | ignore |
| Cause | M | | 9.2.1.6 | | YES | ignore |

9.1.75 CELL SYNCHRONISATION INITIATION REQUEST [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------------|---|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | - |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| Cell Sync Burst Repetition Period | M | | 9.2.3.4J | | YES | reject |
| Time Slot Information | | 015 | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD. | GLOBAL | reject |
| >Time Slot | M | | 9.2.3.23 | | _ | |
| Cell Sync Burst Transmission Initiation Information | | 01 | | Applicable to 3.84Mcps TDD only | GLOBAL | reject |
| >CSB Transmission ID | М | | 9.2.3.4N | , | _ | |
| >SFN | М | | 9.2.1.53A | | _ | |
| >Cell Sync Burst Code | М | | 9.2.3.4G | | _ | |
| >Cell Sync Burst Code Shift | М | | 9.2.3.4H | | _ | |
| >Initial DL Transmission | М | | DL Power | | _ | |
| Power | | | 9.2.1.21 | | | |
| Cell Sync Burst Measurement Initiation Information | | 01 | | Applicable to 3.84Mcps TDD only | GLOBAL | reject |
| >CSB Measurement ID | M | | 9.2.3.41 | | _ | |
| >Cell Sync Burst Code | M | | 9.2.3.4G | | _ | |
| >Cell Sync Burst Code Shift | M | | 9.2.3.4H | | _ | |
| >Synchronisation Report Type | M | | 9.2.3.18E | | _ | |
| >SFN | 0 | | 9.2.1.53A | | _ | |
| >Synchronisation Report Characteristics | М | | 9.2.3.18D | | _ | |
| SYNC_DL Code Transmission Initiation Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | GLOBAL | reject |
| >CSB Transmission ID | М | | 9.2.3.4N | | _ | |
| >SFN | M | | 9.2.1.53A | | _ | |
| >UARFCN | М | | 9.2.1.65 | | _ | |
| >SYNC_DL Code ID | М | | 9.2.3.18B | | _ | |
| >DwPCH Power | М | | 9.2.3.5B | | _ | |
| SYNC_DL Code Measurement Initiation Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | GLOBAL | reject |
| >CSB Measurement ID | М | | 9.2.3.41 | , | _ | |

| >SFN | 0 | 9.2.1.53A | _ | |
|--|---|-----------|---|--|
| >UARFCN | M | 9.2.1.65 | _ | |
| >SYNC_DL Code ID | М | 9.2.3.18B | _ | |
| >Synchronisation Report Type | M | 9.2.3.18E | _ | |
| >Synchronisation Report Characteristics | M | 9.2.3.18D | _ | |

9.1.76 CELL SYNCHRONISATION INITIATION RESPONSE [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | - | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.77 CELL SYNCHRONISATION INITIATION FAILURE [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.78 CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|-----------------------------------|---|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | - | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | reject |
| Time Slot | M | | 9.2.3.23 | Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it | YES | reject |
| Number Of Cycles Per SFN Period | M | | 9.2.3.7B | | YES | reject |
| Number Of Repetitions Per Cycle Period | M | | 9.2.3.7C | | YES | reject |
| Cell Sync Burst Transmission Reconfiguration Information | | 0 <maxno ofCellSync Bursts></maxno | | Applicable to 3.84Mcps TDD only | GLOBAL | reject |
| >CSB Transmission ID | M | | 9.2.3.4N | | _ | |
| >Sync Frame Number To Transmit | M | | Sync Frame Number 9.2.3.18C | | _ | |
| >Cell Sync Burst Code | 0 | | 9.2.3.4G | | _ | |
| >Cell Sync Burst Code Shift | 0 | | 9.2.3.4H | | _ | |
| >DL Transmission Power | 0 | | DL Power 9.2.1.21 | | _ | |
| Cell Sync Burst Measurement Reconfiguration Information | | 01 | | Applicable to 3.84Mcps TDD only | YES | reject |
| >Cell Sync Burst Measurement Information | | 1 <maxno ofCellSync Bursts></maxno | | | GLOBAL | reject |
| >>Sync Frame Number To Receive | M | | Sync Frame Number 9.2.3.18C | | _ | |
| >>Cell Sync Burst Information | | 1 <maxno ofreceptio nsperSync Frame></maxno | | | _ | |
| >>>CSB Measurement ID | M | | 9.2.3.41 | | _ | |
| >>>Cell Sync Burst Code | М | | 9.2.3.4G | | _ | |
| >>>Cell Sync Burst Code Shift | М | | 9.2.3.4H | | _ | |
| >Synchronisation Report Type | 0 | | 9.2.3.18E | | YES | reject |
| >Synchronisation Report Characteristics | 0 | | 9.2.3.18D | | YES | reject |
| Number Of Subcycles Per Cycle Period | 0 | | 9.2.3.7D | Applicable to 1.28Mcps TDD only | YES | reject |

| SYNC_DL Code Transmission Reconfiguration Information LCR | | 0 <maxno ofSyncFra mesLCR></maxno | | Applicable to 1.28Mcps TDD only | GLOBAL | reject |
|---|---|--|--|---------------------------------------|--------|--------|
| >CSB Transmission ID | M | | 9.2.3.4N | | _ | |
| >Sync Frame Number For Transmission | М | | Sync Frame Number 9.2.3.18C | | - | |
| >UARFCN | M | | 9.2.1.65 | | _ | |
| >SYNC_DL Code ID | 0 | | 9.2.3.18B | | _ | |
| >DwPCH Power | 0 | | 9.2.3.5B | | _ | |
| SYNC_DL Code Measurement Reconfiguration Information LCR | | 01 | | Applicable to 1.28Mcps TDD only | YES | reject |
| >SYNC_DL Code Measurement Information LCR | | 1 <maxno ofSyncDL CodesLCR ></maxno | | | _ | |
| >>Sync Frame Number To Receive | М | | Sync Frame Number 9.2.3.18C | | _ | |
| >>Sync_DLCode Information LCR | | 1 <maxno ofreceptio nsperSync FrameLCR</maxno | | | | |
| >>>CSB Measurement ID | М | | 9.2.3.41 | | - | |
| >>>SYNC_DL Code ID | M | | 9.2.3.18B | | _ | |
| >>>UARFCN | М | | 9.2.1.65 | | | |
| >>>Propagation Delay Compensation | 0 | | Timing Adjustment Value LCR 9.2.3.22b | | - | |
| >Synchronisation Report Type | 0 | | 9.2.3.18E | | YES | reject |
| >Synchronisation Report Characteristics | 0 | | 9.2.3.18D | | YES | reject |

| Range Bound | Explanation |
|----------------------------------|---|
| maxnoofCellSyncBursts | Maximum number of cell synchronisation bursts per cycle for 3.84Mcps TDD |
| maxnoofreceptionsperSyncFrame | Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD |
| maxnoofSyncFramesLCR | Maximum number of Sync Frames per subcycle for 1.28Mcps TDD |
| maxnoofreceptionsperSyncFrameLCR | Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD |
| maxnoofSvncDLCodesLCR | Maximum number of SYNC_DL Codes for 1.28Mcps TDD |

9.1.79 CELL SYNCHRONISATION RECONFIGURATION RESPONSE [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.80 CELL SYNCHRONISATION RECONFIGURATION FAILURE [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cause | M | | 9.2.1.6 | | YES | ignore |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.81 CELL SYNCHRONISATION REPORT [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|-----------------------------|---|-------------|----------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Cell Synchronisation Information | | 1 <maxce IlinNode B></maxce | | | GLOBAL | ignore |
| >C-ID | М | | 9.2.1.9 | | YES | ignore |
| >CHOICE Synchronisation Report Type | 0 | | | | YES | ignore |
| >>Initial Phase or Steady- State Phase | | | | | | |
| >>>Cell Sync Burst Measured Information | | 0 <maxno ofCellSync Bursts></maxno | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD. | _ | |
| >>>SFN | М | | 9.2.1.53A | | _ | |
| >>>>Cell Sync Burst Information | | 1 <maxno ofreceptio nsperSync Frame></maxno | | | - | |
| >>>>CHOICE Cell Sync Burst Availability Indicator >>>>> Cell Sync | M | | | | _ | |
| Burst Available | | | | | | |
| >>>>>Cell Sync Burst Timing | М | | 9.2.3.4L | | _ | |
| >>>>>Cell Sync Burst SIR | М | | 9.2.3.4K | | _ | |
| >>>> Cell Sync Burst Not Available | | | NULL | | | |

| >>>Accumulated Clock Update | 0 | | Timing Adjustment Value 9.2.3.22a | | YES | ignore |
|--|---|--|---|---|-----|--------|
| >>>SYNC_DL Codes Measured Information | | 0 <maxno ofSyncFra mesLCR></maxno | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD. | YES | ignore |
| >>>SFN | M | | 9.2.1.53A | | - | |
| >>>SYNC_DL Code Information | | 1 <maxno framelcr="" nspersync="" ofreceptio=""></maxno> | | | _ | |
| >>>>CHOICE SYNC_DL Code Availability Indicator | M | | | | - | |
| >>>>SYNC_DL Code Available | | | | | | |
| >>>>SYNC_ DL Code ID Timing | M | | Cell Sync Burst Timing LCR 9.2.3.4La | | - | |
| >>>>SYNC_ DL Code ID SIR | M | | Cell Sync Burst SIR 9.2.3.4K | | _ | |
| >>>>SYNC_DL Code Not Available | | | NULL | | | |
| >>Late-Entrant Cell | | | NULL | | | |
| >>Frequency Acquisition | | | NULL | | | |

| Range Bound | Explanation |
|----------------------------------|---|
| maxCellinNode B | Maximum number of Cells in a Node B |
| maxnoofCellSyncBursts | Maximum number of cell synchronisation bursts per cycle for 3.84Mcps TDD |
| maxnoofreceptionsperSyncFrame | Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD |
| maxnoofSyncFramesLCR | Maximum number of SYNC Frames per measurement reporting period for 1.28Mcps TDD |
| maxnoofreceptionsperSyncFrameLCR | Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD |

9.1.82 CELL SYNCHRONISATION TERMINATION REQUEST [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | ignore |
| CSB Transmission ID | 0 | | 9.2.3.4N | | YES | ignore |
| CSB Measurement ID | 0 | | 9.2.3.41 | | YES | ignore |

9.1.83 CELL SYNCHRONISATION FAILURE INDICATION [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | ignore |
| CSB Transmission ID | 0 | | 9.2.3.4N | | YES | ignore |
| CSB Measurement ID | 0 | | 9.2.3.41 | | YES | ignore |
| Cause | M | | 9.2.1.6 | | YES | ignore |

9.1.84 CELL SYNCHRONISATION ADJUSTMENT REQUEST [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---------------------------------|----------|---|-----------------------------|---------------------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Cell Adjustment Information | | 1 <maxce IlinNode B></maxce | | | EACH | ignore |
| >C-ID | M | | 9.2.1.9 | | _ | |
| >Frame Adjustment Value | 0 | | 9.2.3.5C | | _ | |
| >Timing Adjustment Value | 0 | | 9.2.3.22a | Applicable to 3.84Mcps TDD only | _ | |
| >DL Transmission Power | 0 | | 9.2.1.21 | Applicable to 3.84Mcps TDD only | _ | |
| >SFN | 0 | | 9.2.1.53A | | _ | |
| >DwPCH Power | 0 | | 9.2.3.5B | Applicable to 1.28Mcps TDD only | YES | ignore |
| >Timing Adjustment Value LCR | 0 | | 9.2.3.22b | Applicable to 1.28Mcps TDD only | YES | ignore |

| Range Bound | Explanation |
|-----------------|-------------------------------------|
| maxCellinNode B | Maximum number of Cells in a Node B |

9.1.85 CELL SYNCHRONISATION ADJUSTMENT RESPONSE [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | М | | 9.2.1.62 | | - | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

9.1.86 CELL SYNCHRONISATION ADJUSTMENT FAILURE [TDD]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | reject |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CHOICE Cause Level | М | | | | YES | ignore |
| >General | | | | | | |
| >>Cause | М | | 9.2.1.6 | | _ | |
| >Cell Specific | | | | | | |
| >>Unsuccessful Cell Information Response | | 1 <maxce IlinNode B></maxce | | | EACH | ignore |
| >>>C-ID | М | | 9.2.1.9 | | _ | |
| >>>Cause | М | | 9.2.1.6 | | _ | |
| Criticality Diagnostics | 0 | | 9.2.1.17 | | YES | ignore |

| Range Bound | Explanation |
|-----------------|-------------------------------------|
| maxCellinNode B | Maximum number of Cells in a Node B |

9.1.87 BEARER REARRANGEMENT INDICATION

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|--|----------|---|---|--|-------------|----------------------|
| | | | Reference | | | , |
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Signalling Bearer Request Indicator | 0 | | 9.2.1.55A | | YES | ignore |
| DCHs To Re-arrange | | 0 <maxno ofDCHs></maxno | | | GLOBAL | ignore |
| >DCH ID | M | | 9.2.1.20 | | _ | |
| DSCHs To Re-arrange | | 0 <maxno ofDSCHs></maxno | | TDD only | GLOBAL | ignore |
| >DSCH ID | M | | 9.2.3.5a | | _ | |
| USCHs To Re-arrange | | 0 <maxno ofUSCHs></maxno | | TDD only | GLOBAL | ignore |
| >USCH ID | M | | 9.2.3.27 | | _ | |
| HS-DSCHs MAC-d Flow To Re-arrange | | 0 <maxno ofMACdFl ows></maxno | | | GLOBAL | ignore |
| >HS-DSCH MAC-d Flow ID | M | | 9.2.1.311 | | _ | |
| E-DCHs MAC-d Flow To Rearrange | | 0 <maxno ofEDCHM ACdFlows</maxno | | | GLOBAL | ignore |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.29ad | | _ | |
| >Additional E-DCH Cell Information Bearer Rearrangement | | 0 <maxno ofEDCH-1</maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | EACH | ignore |
| >>Transport Bearer Rearrangement Indicator for Secondary E-DCH Separate Mode | M | | Enumerated ENUMERA TED (bearer for primary carrier, bearer for secondary carrier, bearers for both primary and secondary carriers,) | | _ | |

| Range bound | Explanation |
|----------------------|--|
| maxnoofDCHs | Maximum number of DCHs for a UE |
| maxnoofDSCHs | Maximum number of DSCHs for a UE |
| maxnoofUSCHs | Maximum number of USCHs for a UE |
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows |
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.88 RADIO LINK ACTIVATION COMMAND

9.1.88.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|----------------------------------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | _ | |
| Node B Communication Context ID | M | | 9.2.1.48 | | YES | ignore |
| Delayed Activation Information | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | М | | 9.2.1.53 | | - | |
| >Delayed Activation Update | М | | 9.2.1.24D | | _ | |

| Range Bound | Explanation |
|-------------|----------------------------------|
| maxnoofRLs | Maximum number of RLs for one UE |

9.1.88.2 TDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|----------------------------------|-----------------------------|--------------------------|-------------|-------------------------|
| Message Discriminator | М | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | М | | 9.2.1.62 | | - | |
| Node B Communication Context ID | M | | 9.2.1.48 | | YES | ignore |
| Delayed Activation Information | | 1 <maxno ofRLs></maxno | | | EACH | ignore |
| >RL ID | М | | 9.2.1.53 | | - | |
| >Delayed Activation Update | М | | 9.2.1.24D | | _ | |

| Range Bound | Explanation |
|-------------|----------------------------------|
| maxnoofRLs | Maximum number of RLs for one UE |

9.1.89 RADIO LINK PARAMETER UPDATE INDICATION

9.1.89.1 FDD Message

| IE/Group name | Presence | Range | IE Type and Reference | Semantic Description | Criticality | Assigned Criticality |
|---|----------|--|--------------------------------|--|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| HS-DSCH FDD Update Information | 0 | | 9.2.2.18Ea | | YES | ignore |
| E-DCH FDD Update Information | 0 | | 9.2.2.13DA | | YES | ignore |
| Additional HS Cell Information RL Param Upd | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. Max 1 in this 3GPP release. | EACH | ignore |
| >HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | _ | |
| >HS-DSCH FDD Secondary Serving Update Information | М | | 9.2.2.18Eaa | | _ | |
| Additional E-DCH Cell Information RL Param Upd | | 0 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | EACH | ignore |
| >>Additional E-DCH FDD Update Information | M | | 9.2.2.138 | | _ | |
| CPC Recovery Report | 0 | | ENUMERAT ED(Initiated,) | | YES | ignore |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.1.89.2 TDD Message

| IE/Group name | Presence | Range | IE Type and Reference | Semantic Description | Criticality | Assigned Criticality |
|----------------------------------|----------|-------|-----------------------|--|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| HS-DSCH TDD Update Information | 0 | | 9.2.3.5GA | | YES | ignore |

9.1.90 MBMS NOTIFICATION UPDATE COMMAND

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------|----------|----------------------------------|-----------------------------|--|-------------|-------------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| C-ID | M | | 9.2.1.9 | | YES | ignore |
| Common Physical Channel ID | М | | 9.2.1.13 | | YES | ignore |
| Modification Period | 0 | | 9.2.1.47a | This IE shall be present in the very first message | YES | ignore |
| MICH CFN | M | | 9.2.1.46a | | YES | ignore |
| NI Information | | 1 <maxno ofNIs></maxno | | | GLOBAL | ignore |
| >NI | М | | 9.2.1.47F | | _ | |

| Range Bound | Explanation | | | |
|-------------|-----------------------|--|--|--|
| maxNoofNIs | Maximum number of NIs | | | |

9.1.91 UE STATUS UPDATE COMMAND

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|---|-----------------------------|--------------------------|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | М | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| Cell E-RNTI Status Information | | 1 <maxce IlinNode B></maxce | | | EACH | ignore |
| >C-ID | M | | 9.2.1.9 | | _ | |
| > Vacant E-RNTI | | 1 <maxer ntiToRelea se ></maxer | | | EACH | ignore |
| >>E-RNTI | M | | 9.2.1.75 | | | |

| Range Bound | Explanation |
|-------------------|--|
| maxCellinNode B | Maximum number of Cells in a Node B |
| maxErntiToRelease | Maximum number of E-RNTI to release per cell |

9.1.92 SECONDARY UL FREQUENCY REPORT

9.1.92.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticalit y | Assigned Criticality |
|------------------------------------|----------|-------|-----------------------|--|-----------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | - | |
| Node B Communication Context ID | M | | 9.2.1.48 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Activation Information | M | | 9.2.2.128 | | YES | ignore |

9.1.93 SECONDARY UL FREQUENCY UPDATE INDICATION

9.1.93.1 FDD Message

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------------------|----------|-------|-----------------------|--|-------------|----------------------|
| Message Discriminator | M | | 9.2.1.45 | | _ | |
| Message Type | M | | 9.2.1.46 | | YES | ignore |
| Transaction ID | M | | 9.2.1.62 | | _ | |
| CRNC Communication Context ID | M | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. | YES | ignore |
| Activation Information | M | | 9.2.2.128 | | YES | ignore |

9.2 Information Element Functional Definition and Contents

9.2.0 General

Subclause 9.2 presents the NBAP IE definitions in tabular format. The corresponding ASN.1 definition is presented in Subclause 9.3. In case there is a contradiction between the tabular format in Subclause 9.2 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

When specifying information elements which are to be represented by bitstrings, if not otherwise specifically stated in the semantics description of the concerned IE or elsewhere, the following principle applies with regards to the ordering of bits:

- The first bit (leftmost bit) contains the most significant bit (MSB);
- The last bit (rightmost bit) contains the least significant bit (LSB);
- When importing bitstrings from other specifications, the first bit of the bitstring contains the first bit of the concerned information;

9.2.1 Common parameters

9.2.1.1 Add/Delete Indicator

The add/delete indicator shall notify the CRNC whether the associated resource has been added to or removed from the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| Add/Delete Indicator | | | ENUMERATED (| |
| | | | Add, | |
| | | | Delete) | |

9.2.1.1A Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of Node B internal resources. See Annex A.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--|---|
| Priority Level | М | | INTEGER (015) | This IE indicates the priority of the request. Usage: Value "0" means "Spare"; It shall be treated as a logical error if received. Values between "1" and "14" are ordered in decreasing order of priority, "1" being the highest and "14" the lowest. Value "15" means "No Priority". |
| Pre-emption Capability | M | | ENUMERATED (shall not trigger pre- emption, may trigger pre- emption) | |
| Pre-emption Vulnerability | M | | ENUMERATED (not pre-emtable, pre-emptable) | |

9.2.1.1B Alternative Format Reporting Indicator

This IE indicates if Node B may report a measurement using an alternative format.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|-----------------------------------|-----------------------|
| Alternative Format Reporting Indicator | | | ENUMERATED (Alternative format is | |
| | | | allowed,) | |

9.2.1.2 Availability Status

The availability status is used to indicate more detailed information of the availability of the resource. In accordance with ref. CCITT Rec. X.731 [3], following values are defined. If the value of this IE is "empty", this implies that none of the status conditions described in ref. CCITT Rec. X.731 [3] are present.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|---|-----------------------|
| Availability Status | | | ENUMERATED (empty, in test, failed, power off, off line, off duty, dependency, degraded, not installed, log full,) | |

9.2.1.3 BCCH Modification Time

Indicates the time after which the new system information shall be applied on BCCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|--|
| BCCH Modification Time | | | INTEGER (0511) | All SFN values in which MIB may be mapped are allowed. The tabular description is presented in TS 25.331 [18]. |

9.2.1.4 Binding ID

The Binding ID is the identifier of a user data stream.

In case of transport bearer establishment with ALCAP (TS 25.426 [2], 3GPP TS 25.434 [31]), this IE contains the identifier that is allocated at the Node B and that is unique for each transport bearer under establishment to/from the Node B.

If the Transport Layer Address contains an IP address (IETF RFC 2460 [29]), this IE contains the UDP port (IETF RFC 768 [30]) intended to be used for the user plane transport.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| Binding ID | | | OCTET STRING (14,) | If the Binding ID includes an UDP port, the UDP port is included in octets 1 and 2. The first octet of the UDP port field shall be included in the first octet of the Binding ID. |

9.2.1.4A BLER

Void.

9.2.1.5 Blocking Priority Indicator

The Blocking priority indicator shall indicate the immediacy with which a resource should be blocked from use. The following priority classes shall be supported in the Blocking priority indicator.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------------|----------|-------|--------------|---------------------------------|
| | | | Reference | |
| Blocking Priority Indicator | | | ENUMERATED (| "High" priority: Block resource |
| | | | High, | immediately. |
| | | | Normal, | "Normal" priority: Block |
| | | | Low, | resource when idle or upon |
| | | |) | timer expiry. |
| | | | | "Low" priority: Block resource |
| | | | | when idle. |

9.2.1.5A Burst Mode Parameters

The Burst Mode Parameters IE provides information to be applied for IPDL burst mode.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|-----------------------|------------------------|
| Burst Start | М | | INTEGER (015) | See TS 25.214 [10] and |
| | | | | TS 25.224 [21] |
| Burst Length | M | | INTEGER (1025) | See TS 25.214 [10] and |
| _ | | | | TS 25.224 [21] |
| Burst Freq | М | | INTEGER (116) | See TS 25.214 [10] and |
| _ | | | . , | TS 25.224 [21] |

9.2.1.5B Broadcast Common Transport Bearer Indication

The *Broadcast Common Transport Bearer Indication* IE is used by the Node B to inform the CRNC that the transport bearer of the existing Common Transport Channel which is indicated by the *Common Transport Channel ID* IE and *C-ID* IE, shall be used instead of establishing a new transport bearer. If there are more than one Common Transport Channels sharing the same transport bearer, Node B may include any one of these Common Transport Channels together with its corresponding C-ID in *Broadcast Common Transport Bearer Indication* IE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| Common Transport Channel ID | М | | 9.2.1.14 | |
| C-ID | M | | 9.2.1.9 | |

9.2.1.5C Broadcast Reference

The *Broadcast Reference* IE is a unique identifier within the CRNC identifying the intended usage of a requested Common Transport Channel (e.g. the *Broadcast Reference* IE may identify a particular MBMS session).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| Broadcast Reference | | | BIT STRING (SIZE(24)) | |

9.2.1.6 Cause

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics |
|-----------------------|----------|-------|--|-------------|
| | | | | Description |
| CHOICE Cause Group | M | | | |
| >Radio Network Layer | | | | |
| >>Radio Network Layer | M | | ENUMERATED (| |
| Cause | | | unknown C-ID, | |
| | | | Cell not available, | |
| | | | Power level not supported, DL radio resources not available, | |
| | | | UL radio resources not available, | |
| | | | RL Already Activated/allocated, | |
| | | | Node B Resources Unavailable, | |
| | | | Measurement not supported for | |
| | | | the object, | |
| | | | Combining Resources not | |
| | | | available, | |
| | | | Requested configuration not | |
| | | | supported, | |
| | | | Synchronization failure, | |
| | | | Priority transport channel established. | |
| | | | SIB Origination in Node B not | |
| | | | Supported, | |
| | | | Requested Tx Diversity Mode not | |
| | | | supported, | |
| | | | Unspecified, | |
| | | | BCCH scheduling error, | |
| | | | Measurement Temporarily not | |
| | | | Available, | |
| | | | Invalid CM Setting, | |
| | | | Reconfiguration CFN not elapsed, Number of DL codes not | |
| | | | supported, | |
| | | | S-CPICH not supported, | |
| | | | Combining not supported, | |
| | | | UL SF not supported, | |
| | | | DL SF not supported, | |
| | | | Common Transport Channel Type | |
| | | | not supported, | |
| | | | Dedicated Transport Channel | |
| | | | Type not supported, | |
| | | | Downlink Shared Channel Type not supported, | |
| | | | Uplink Shared Channel Type not | |
| | | | supported, | |
| | | | CM not supported, | |
| | | | Tx diversity no longer supported, | |
| | | | Unknown Local Cell ID, | |
| | | | | |
| | | | Number of UL codes not | |
| | | | supported, | |
| | | | Information temporarily not available, | |
| | | | Information Provision not | |
| | | | supported for the object, | |
| | | | Cell Synchronisation not | |
| | | | supported, | |
| | | | Cell Synchronisation Adjustment | |
| | | | not supported, | |
| | | | DPC Mode Change not Supported, | |
| | | | IPDL already activated, | |
| | | | IPDL not supported, | |
| | | | IPDL parameters not available, | |
| | | | Frequency Acquisition not | |
| | | | supported, Power Balancing status not | |
| | 1 | j | i owei Daiailolliy Status 110t | |

| | | compatible, Requested type of Bearer Re- arrangement not supported, Signalling Bearer Re-arrangement not supported, Bearer Re-arrangement needed, Delayed Activation not Supported, RL Timing Adjustment not supported, MICH not supported, F-DPCH Not Supported, Modification Period not available, PLCCH not supported, Continuous Packet Connectivity DTX-DRX operation not available, Continuous Packet Connectivity UE DTX Cycle not available, MIMO not available, E-DCH MAC-d PDU Size Format not available, Multi Cell operation not available) Semi-Persistent scheduling not supported, Continuous Packet Connectivity DRX not supported, Continuous Packet Connectivity DRX not available, SixtyfourQAM DL and MIMO Combined not available, S-CPICH power offset support not available, TX diversity for MIMO UE on DL Control Channels not available, Single Stream MIMO not available, Multi Cell operation with MIMO not available, Multi Cell operation with Single Stream MIMO not available, Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available, Multi Cell E-DCH |
|----------------------------|---|--|
| | | operation not available) |
| >Transport Layer | | |
| >>Transport Layer Cause | M | ENUMERATED (Transport resource unavailable, Unspecified,) |
| >Protocol | | |
| >>Protocol Cause | M | ENUMERATED (Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message),) |
| >Misc | | |
| >>Miscellaneous Cause | M | ENUMERATED (Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified,) |

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerned capability is missing. On the other hand, "not available" cause values indicate that the concerned capability is present, but insufficient resources were available to perform the requested action.

| Radio Network Layer cause BCCH scheduling error The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3). Bearer Re-arrangement needed The Node B cannot perform the requested Radio Link Reconfiguration without bearer re-arrangement. Cell not Available Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available Combining not supported Combining not supported Combining Resources Not Available Common Transport Channel Type not support Cannel Type not supported Common Transport Channel Type not supported Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DL Radio Resources not Available DL SF not supported DL Radio Resources not Available DL SF not supported DL Radio Resources not Available DL SF not supported DL Radio Resources not Available DL SF not supported The concerned cell(s) do not support the Dedicated Transport Channel Type not supported DL Shared Channel Type not supported The concerned cell(s) do not support the Dedicated Transport Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the Deminish Shared Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the Downlink Shared Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Dradio resources available. The concerned cell(s) do not support the Dradio resources available. The concerned cell(s) do not support the Dradio resources available. The concerned cell(s) do not support the Dradio resources available. The concerned cell(s) do not support the Dradio resources available. The concerned cell(s) do not support the Dradio resources available. The concerned cell(s) do not support the Dradio resources available in the concerned cell(s) do not support the Dradio resources available. The concerned cell(s) |
|--|
| subclause 8.2.16.3). Bearer Re-arrangement needed The Node B cannot perform the requested Radio Link Reconfiguration without bearer re-arrangement. Cell not Available The concerned cell or local cell is not available. Cell Synchronisation not supported The concerned cell(s) on to support Cell Synchronisation. Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available in the concerned cell(s) on to support RL combining for multi cell operation not available in the concerned cell(s) Combining not supported The Node B does not support RL combining for the concerned cells. Combining Resources Not Available The value of the received Diversity Control Field IE was set to "Must", but the Node B cannot perform the requested combining. CM not supported The concerned cell(s) do not support Compressed Mode. Common Transport Channel Type not supported Activation not available continuous Packet Connectivity UE Continuous Packet Conne |
| Bearer Re-arrangement needed without bearer re-arrangement |
| without bearer re-arrangement. Cell synchronisation not supported |
| Cell Ison Available Cell Synchronisation not supported Cell Synchronisation not supported Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available Combining not supported Combining Resources Not Available Combining Resources Not Available Common Transport Channel Type not supported Continuous Packet Connectivity DTX-DRX operation not available DEdicated Transport Channel Type not supported DL Radio Resources not Available DL Radio Resources not Available DL SF not supported DL SF not supported DL Shared Channel Type not supported DL SF not supported DPX Mode Change not Supported The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Pownlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Propuration to available in the concerned cell(s) The concerned cell(s) do not support the Propuration of RLs. The concerned cell(s) do not support the Propuration of RLs. The concerned cell(s) do not support the Propuration of RLs. The concerned cell(s) do not support the Propuration of RLs. The concerned cell(|
| Cell specific Tx Diversity Handling For Multi Cell Operation Not Available Combining not supported Combining Resources Not Available Common Transport Channel Type not supported Common Transport Channel Type not supported Continuous Packet Connectivity DTX-DRX operation not available Continuous Packet Connectivity DTX-DRX operation not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Dedicated Transport Channel Type not supported DL Radio Resources not Available DL SF not supported The concerned cell(s) do not support delayed activation of RLs. DL Shared Channel Type not supported The concerned cell(s) do not support be Dedicated Transport Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the Downlink Shared Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested Channel Type. The concerned cell(s) do not support the requested Order the concerned object types. The concerned cell(s) do not support the Fractional DPCH The requested information provision is not supported for the concerned object types. The concerned cell(s) do not support the IPDL oppoing. The concerned cell(s) do not support the IPDL The concerned cell(s) do not support the IPDL The concerned cell(s) do not support t |
| Cell specific Tx Diversity Handling For Multi Cell Operation Not Available Combining not supported Combining Resources Not Available Common Transport Channel Type not supported Common Transport Channel Type not supported Continuous Packet Connectivity DTX-DRX operation not available Continuous Packet Connectivity DTX-DRX operation not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Dedicated Transport Channel Type not supported DL Radio Resources not Available DL SF not supported The concerned cell(s) do not support delayed activation of RLs. DL Shared Channel Type not supported The concerned cell(s) do not support be Dedicated Transport Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the Downlink Shared Channel Type. DPC Mode Change not Supported The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the requested Channel Type. The concerned cell(s) do not support the requested Order the concerned object types. The concerned cell(s) do not support the Fractional DPCH The requested information provision is not supported for the concerned object types. The concerned cell(s) do not support the IPDL oppoing. The concerned cell(s) do not support the IPDL The concerned cell(s) do not support the IPDL The concerned cell(s) do not support t |
| Available Combining not supported Combining Resources Not Available Common Transport Channel Type not supported Continuous Packet Connectivity CDTX-DRX operation not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available CDR resources for DTX-DRX operation not available in the concerned cell(s). CPC resources for but UE DTX Cycle not available in the concerned cell(s). Dedicated Transport Channel Type not supported DL SF not supported DL SF not supported DPC Mode Change not Supported The concerned cell(s) do not support the Dedicated Transport Channel supported DPC Mode Change not Supported The concerned cell(s) do not support the Downlink Shared Channel supported The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support the Tractional DPCH The concerned cell(s) fon the support the Tractional DPCH The concerned cell(s) do not support the Fractional DPCH The concerned cell(s) do not support the Fractional DPCH The requested information provision is not supported object types. The concerned cell(s) do not support the PDL. The concerned cell(s) do not have IPDL parameters defining IPDL to be applied. At least one of the concerned object type. |
| Combining not supported Combining Resources Not Available Combining Resources Not Available Combining Resources Not Available Combining Resources Not Available Common Transport Channel Type not supported Common Transport Channel Type not supported Continuous Packet Connectivity UE DTX-DRX operation not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Collegate Transport Channel Type not supported DL Radio Resources not Available DL Radio Resources not Available DL SF not supported DL Shared Channel Type not supported CDC Mode Change not Supported The concerned cell(s) do not support the Dedicated Transport Channel Type. The concerned cell(s) do not support delayed activation of RLs. The Node B does not have sufficient DL radio resources available. The concerned cell(s) do not support the Dedicated Transport Channel Type. The concerned cell(s) do not support the Dedicated Transport Channel Type. The concerned cell(s) do not support the Dedicated Transport Channel Type. The concerned cell(s) do not support the Dedicated Transport Channel Type. The concerned cell(s) do not support the Pownlink Shared Channel Type. The concerned cell(s) do not support the Downlink Shared Channel Type. The concerned cell(s) do not support DPC mode changes. The selected E-DCH MAC-d PDU Size Format is not available in the concerned cell(s). The concerned cell(s) do not support Frequency Acquisition. The concerned cell(s) do not support the Fractional DPCH The requested information provision is not supported for the concerned cell(s) do not support the Fractional DPCH The requested information can temporarily not be provided. The concerned cell(s) do not support the PDL. The concerned cell(s) do not support the PDL. The concerned cell(s) do not support the PDL. The concerned cell(s) do not have IPDL parameters defining IPDL to be applied. At least one of the concerned cell(s) dose not support the requested measurement not vaule. |
| Combining Resources Not Available CM not supported Common Transport Channel Type not supported Continuous Packet Connectivity DTX-DRX operation not available Continuous Packet Connectivity UE DTX Cycle not available Cotinuous Packet Connectivity UE DTX Cycle not available Cotinuous Packet Connectivity UE DTX Cycle not available DE dicated Transport Channel Type not supported DI. Radio Resources not Available DL. SF not supported DL. SF not supported DL Shared Channel Type not supported DE Abred Channel Type not available DL Facilia Resources not Available DL SF not supported DE Abred Channel Type not supported DE Abred Channel Type not supported DE Nadio Resources not Available DL Facilia Resources not Available DL SF not supported DL Shared Channel Type not supported DE Abred Channel Type not supported DE Nadio Resources not Available DL SF not supported DL Shared Channel Type not supported DE Concerned cell(s) do not support the properties of the concerned cell(s) do not support the properties of the concerned cell(s) do not support the properties of the concerned cell(s) do not support the Downlink Shared Channel Type. DE Mac Activation not supported F-DCH MAC-d PDU Size Format not available The concerned cell(s) do not support DPC mode changes. The concerned cell(s) The concerned cell(s) do not support Frequency Acquisition. The concerned cell(s) do not support the Fractional DPCH The concerned cell(s) do not support the Fractional DPCH The requested information provision is not supported object types. Information temporarily not available Invalid CM Settings The concerned cell(s) do not support the IPDL. IPDL already activated The concerned cell(s) do not support the IPDL. The concerned cell(s) do not support the IPDL parameters defining IPDL to be applied. Measurement not Supported For The Object Measurement Temporarily not At least one of the concerned cell(s) does not support the requested measurement value. |
| Descripted but the Node B cannot perform the requested combining. The concerned cell(s) do not support Compressed Mode. The concerned cell(s) do not support Compressed Mode. Continuous Packet Connectivity DTX-DRX operation not available Continuous Packet Connectivity UE DTX Cycle not available Continuous Packet Connectivity UE DTX Cycle not available Dedicated Transport Channel Type not supported DL Radio Resources not Available DL Shared Channel Type not supported DL Shared Channel Type not supported DL Shared Channel Type not supported DPC Mode Change not Supported E-DCH MAC-d PDU Size Format not available DF-DPCH not supported The concerned cell(s) do not support the Downlink Shared Channel supported The concerned cell(s) do not support the Downlink Shared Channel supported The concerned cell(s) do not support the requested DL SF. The selected E-DCH MAC-d PDU Size Format not available The selected E-DCH MAC-d PDU Size Format pot available The concerned cell(s) do not support the pownlink Shared Channel supported The concerned cell(s) do not support prequency Acquisition not supported The concerned cell(s) do not support prequency Acquisition not supported The concerned cell(s) do not support the Fractional DPCH The concerned cell(s) do not support the Fractional DPCH The requested information provision is not supported for the object Object The requested information can temporarily not be provided. The concerned cell(s) do not support the PDL ongoing. The concerned cell(s) do not support the PDL ongoing. The concerned cell(s) do not support the PDL parameters defining IPDL to be applied. Measurement not Supported For The Object The concerned cell(s) do not not support the requested measurement on the concerned object type. |
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| Measurement Temporarily not Available The Node B can temporarily not provide the requested measurement value. |
| Available value. |
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| MICH not supported The concerned cell does not support MICH. |
| MIMO not available MIMO resources not available in the concerned cell(s). |
| Modification Period not available The Node B does not have modification period available. |
| Multi Cell operation not available Multi Cell operation resources not available in the concerned cell(s) |
| Multi Cell operation with MIMO not Multi Cell operation resources with MIMO not available in the |
| available concerned cell(s) |
| Multi Cell operation with Single Multi Cell operation resources with Single Stream MIMO not available |
| Stream MIMO not available in the concerned cell(s) |
| Multi Cell E-DCH operation not Multi Cell E-DCH operation resources not available in the concerned |

| available | cell(s) |
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| Node B resources unavailable | The Node B does not have sufficient resources available. |
| Number of DL codes not supported | The concerned cell(s) do not support the requested number of DL codes. |
| Number of UL codes not supported | The concerned cell(s) do not support the requested number of UL codes. |
| Power Level not Supported | A DL power level was requested which the concerned cell(s) do not |
| | support. |
| Power Balancing status not compatible | The power balancing status in the SRNC is not compatible with that of |
| | the Node B. |
| PLCCH not supported | The concerned cell does not support PLCCH. |
| Priority transport channel established | The CRNC cannot perform the requested blocking since a transport |
| | channel with a high priority is present. |
| RL Timing Adjustment not Supported | The concerned cell(s) do not support adjustments of the RL timing. |
| Reconfiguration CFN not elapsed | The requested action cannot be performed due to that a RADIO LINK |
| | RECONFIGURATION COMMIT message was received previously, |
| | but the concerned CFN has not yet elapsed. |
| Requested Configuration not | The concerned cell(s) do not support the requested configuration i.e. |
| Supported | power levels, Transport Formats, physical channel parameters. |
| Requested Type of Bearer Re- | The Node B does not support the requested type of bearer re- |
| arrangement not supported | arrangement. The concerned cell(s) do not support the requested transmit diversity |
| Requested Tx Diversity mode not supported | mode. |
| RL already Activated/ allocated | The Node B has already allocated an RL with the requested RL-id for |
| RE arready Activated/ arrocated | this UE context. |
| S-CPICH not supported | The concerned cell(s) do not support S-CPICH. |
| S-CPICH power offset support not | The support for setting up the desired power offset on S-CPICH with |
| available | respect to P-CPICH is not available |
| SIB Orgination in Node B not | The Node B does not support the origination of the requested SIB for |
| Supported | the concerned cell. |
| Signalling Bearer Re-arrangement not | The Node B does not support the Signalling bearer re-arrangement. |
| supported | |
| Single Stream MIMO not available | Single Stream MIMO resources not available in the concerned cell(s). |
| SixtyfourQAM DL and MIMO | SixtyfourQAM DL and MIMO Combined not available in the concerned |
| Combined not available | cell(s). |
| Synchronisation Failure | Loss of UL Uu synchronisation. |
| Cell Synchronisation Adjustment not | The concerned cell(s) do not support Cell Synchronisation Adjustment. |
| supported TX discouring for MIMO HE and DI | |
| TX diversity for MIMO UE on DL Control Channels not available | The Node B does not have sufficient radio resources available to support |
| Control Channels not available | transmit diversity on downlink control channels when the UE is configured in MIMO mode with P-CPICH & S-CPICH as phase |
| | references (TS 25.211 [7]) |
| Tx diversity no longer supported | Tx diversity can no longer be supported in the concerned cell. |
| UL Radio Resources not Available | The Node B does not have sufficient UL radio resources available. |
| UL SF not supported | The concerned cell(s) do not support the requested minimum UL SF. |
| UL Shared Channel Type not | The concerned cell(s) do not support the Uplink Shared Channel Type. |
| supported | |
| Unknown C-ID | The Node B is not aware of a cell with the provided C-ID. |
| Unknown Local Cell ID | The Node B is not aware of a local cell with the provided Local Cell ID |
| Unspecified | Sent when none of the above cause values applies but still the cause is |
| | Radio Network layer related. |
| Semi-Persistent scheduling not | The concerned cell(s) do not support the Semi-Persistent scheduling |
| supported | operation (for 1.28Mcps TDD only) |
| Continuous Packet Connectivity DRX | The concerned cell(s) do not support the Continuous Packet |
| not supported | Connectivity DRX operation (for 1.28Mcps TDD only) |
| Continuous Packet Connectivity DRX | HSPA resources for DRX operation not available in the concerned |
| not available | cell(s). (for 1.28Mcps TDD only) |

| Transport Network Layer cause | Meaning |
|--------------------------------|---|
| Transport resource unavailable | The required transport resources are not available. |
| Unspecified | Sent when none of the above cause values applies but still the cause is |

| Transport Network layer related. | |
|----------------------------------|--|
|----------------------------------|--|

| Protocol cause | Meaning |
|-----------------------------------|---|
| Abstract Syntax Error (Reject) | The received message included an abstract syntax error and the |
| | concerned criticality indicated "reject" (see subclause 10.3). |
| Abstract Syntax Error (Ignore and | The received message included an abstract syntax error and the |
| Notify) | concerned criticality indicated "ignore and notify" (see subclause 10.3). |
| Abstract syntax error (falsely | The received message contained IEs in wrong order or with too many |
| constructed message) | occurrences (see subclause 10.3). |
| Message not Compatible with | The received message was not compatible with the receiver state (see |
| Receiver State | subclause 10.4). |
| Semantic Error | The received message included a semantic error (see subclause 10.4). |
| Transfer Syntax Error | The received message included a transfer syntax error (see subclause |
| - | 10.2). |
| Unspecified | Sent when none of the above cause values applies but still the cause is |
| | protocol related. |

| Miscellaneous cause | Meaning |
|----------------------------------|---|
| Control Processing Overload | Node B control processing overload. |
| Hardware Failure | Node B hardware failure. |
| Not enough User Plane Processing | Node B has insufficient user plane processing resources available. |
| Resources | |
| O&M Intervention | Operation and Maintenance intervention related to Node B equipment. |
| Unspecified | Sent when none of the above cause values applies and the cause is not |
| | related to any of the categories Radio Network Layer, Transport |
| | Network Layer or Protocol. |

9.2.1.7 CFN

Connection Frame Number for the radio connection, see ref. TS 25.402 [17].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| CFN | | | INTEGER (0255) | |

9.2.1.8 CFN Offset

Void.

9.2.1.9 C-ID

The C-ID (Cell identifier) is the identifier of a cell in one RNC.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| C-ID | | | INTEGER (065535) | |

9.2.1.9A Common Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor. [FDD - For the PRACH, the reference spreading factor shall be the minimum possible spreading factor amongst the ones defined by the *RACH Slot Format* IE(s) in the Common Transport Channel Setup or Reconfiguration procedures.]

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Common Transport Channel Setup
- Common Transport Channel Deletion
- [FDD Common Transport Channel Reconfiguration]

For the Common Transport Channel Setup procedure, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall be credited to the Capacity Credit for the Common Transport Channel Deletion one.

[FDD - For the Common Transport Channel Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited if this difference is negative).]

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

[FDD - When the Common Transport Channel Setup, Deletion or Reconfiguration procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH and AICH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by a physical channel, the cost credited to or debited from the Capacity Credit for this physical channel shall be taken as N times the cost given in the consumption law, where N is the number of channelization codes.]

[TDD - When the Common Transport Channel Setup or Deletion procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|----------------------------------|--------------------------|--|
| SF Allocation Law | | 1 <maxno ofSFs></maxno | | [FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.] |
| >DL cost | M | | INTEGER (065535) | - |
| >UL cost | M | | INTEGER (065535) | |

| Range Bound | Explanation | | | |
|-------------|-------------------------------------|--|--|--|
| maxnoofSFs | Maximum number of Spreading Factors | | | |

9.2.1.9B Common Measurement Accuracy

The Common Measurement Accuracy IE indicates the accuracy of the common measurement.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|---|-----------------------|
| CHOICE Common Measurement Accuracy | M | | | |
| >T _{UTRAN-GPS} Measurement Accuracy Class | | | | |
| >>T _{UTRAN-GPS} Measurement Accuracy Class | М | | T _{UTRAN-GPS} Accuracy Class 9.2.1.64C | |
| >T _{UTRAN-GANSS} Measurement Accuracy Class | | | | |
| >>T _{UTRAN-GANSS} Measurement Accuracy Class | М | | T _{UTRAN-GANSS} Accuracy Class 9.2.1.98 | |

9.2.1.10 Common Measurement Object Type

Void.

9.2.1.11 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|---|---|
| Common Measurement Type | | | ENUMERATED (| "UL Timeslot ISCP" is used |
| | | | Received Total Wide | by TDD only, |
| | | | Band Power, | "Acknowledged PRACH |
| | | | Transmitted Carrier Power, | Preambles", 'DL Transmission Branch |
| | | | Acknowledged PRACH | Load', 'E-DCH RACH |
| | | | Preambles, | Report' are used by FDD |
| | | | UL Timeslot ISCP, | only, |
| | | | NotUsed-1, | 'UpPCH interference' is |
| | | | NotUsed-2, | used by 1.28Mcps TDD |
| | | | UTRAN GPS Timing of | only. This IE shall never be set |
| | | | Cell Frames for UE | to the values that are |
| | | | Positioning, | prefixed "NotUsed-". |
| | | | SFN-SFN Observed | TDD - The IE Type |
| | | | Time Difference, | "Transmitted carrier power |
| | | | Transmitted carrier | of all codes not used for |
| | | | power of all codes not used for HS | HS transmission" corresponds to the |
| | | | transmission, HS-DSCH | measurement "Transmitted |
| | | | Required Power, | carrier power of all codes |
| | | | HS-DSCH Provided Bit | not used for HS-PDSCH |
| | | | Rate, Received Total | [TDD - E-AGCH, E-HICH] |
| | | | Wide Band Power for Cell Portion, Transmitted | or HS-SCCH transmission" in TS 25.225 [5] and TS |
| | | | Carrier Power for Cell | 25.123 [23].] |
| | | | Portion, Transmitted | [FDD - The IE Type |
| | | | carrier power of all | "Transmitted carrier power |
| | | | codes not used for HS- | of all codes not used for |
| | | | PDSCH HS-SCCHE- | HS transmission" |
| | | | AGCH E-RGCH or E- HICH transmission for | corresponds to the measurement "Transmitted |
| | | | Cell Portion, UpPCH | carrier power of all codes |
| | | | Interference, DL | not used for HS-PDSCH |
| | | | Transmission Branch | HS-SCCH E-AGCH E- |
| | | | Load, | RGCH or E-HICH |
| | | | HS-DSCH Required Power for Cell Portion, | transmission" in TS 25.215 [4] and TS 25.133 [22].] |
| | | | HS-DSCH Provided Bit | [4] and 13 23.133 [22].] |
| | | | Rate for Cell Portion, E- | |
| | | | DCH Provided Bit Rate, | |
| | | | E-DCH Non-serving | |
| | | | Relative Grant Down Commands, | |
| | | | Received Scheduled E- | |
| | | | DCH Power Share, | |
| | | | Received Scheduled E- | |
| | | | DCH Power Share for | |
| | | | Cell Portion, UTRAN | |
| | | | GANSS Timing of Cell Frames for UE | |
| | | | Positioning, E-DCH | |
| | | | RACH Report, | |
| | | | Transmitted carrier | |
| | | | power of all codes not used for HS-PDSCH, | |
| | | | HS-SCCH, E-AGCH, or | |
| | | | E-HICH transmission for | |
| | | | Cell Portion, UL | |
| | | | Timeslot ISCP for Cell | |
| | | | Portion, E-DCH Provided Bit Rate for | |
| | | | Cell Portion, UpPCH | |
| | | | Interference for Cell | |
| | | | Portion) | |

9.2.1.12 Common Measurement Value

The Common Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------|--------------------------------------|-------------|----------------------|
| CHOICE Common Measurement Value | М | | | • | - | |
| >Transmitted Carrier | | | | | | |
| Power | | | | | | |
| >>Transmitted | M | | INTEGER | According to mapping | _ | |
| Carrier Power | | | (0100) | in TS 25.133 [22] and | | |
| Value >Received Total | | | | TS 25.123 [23] | | |
| Wide Band Power | | | | | | |
| >>Received Total | M | | INTEGER | According to mapping | _ | |
| Wide Band Power | | | (0621) | in TS 25.133 [22] and | | |
| Value >Acknowledged | | | | TS 25.123 [23] FDD Only | | |
| PRACH Preambles | | | | 1 DD Only | | |
| >>Acknowledged | M | | INTEGER | According to mapping | _ | |
| PRACH Preamble | | | (0240,) | in TS 25.133 [22] | | |
| Value >UL Timeslot ISCP | | | | TDD Only | | |
| >>UL Timeslot | M | | INTEGER | According to mapping | _ | |
| ISCP | 111 | | (0127) | in TS 25.123 [23] | | |
| >Not used 1 | | | NULL | This choice shall not | | |
| | | | | be used. Ignore if received. | | |
| >Not Used 2 | | | NULL | This choice shall not | | |
| >110t 000d 2 | | | INOLL | be used. Ignore if | | |
| | | | | received. | | |
| >Additional Common | | | | See Note 1 | | |
| Measurement Values >>UTRAN GPS | | | | | | |
| Timing Of Cell | | | | | | |
| Frames for UE | | | | | | |
| Positioning - | . | | 0.04.044 | | \/50 | |
| >>>T _{UTRAN-GPS} Measurement | M | | 9.2.1.64A | | YES | ignore |
| Value Information | | | | | | |
| >>SFN-SFN | | | | | | |
| Observed Time | | | | | | |
| Difference >>>SFN-SFN | M | | 9.2.1.53E | | YES | ignore |
| Measurement | IVI | | 3.2.1.00L | | 120 | ignore |
| Value Information | | | | | | |
| >>Transmitted | | | | | | |
| Carrier Power Of All Codes Not Used | | | | | | |
| For | | | | | | |
| HSTransmission | | | | | | |
| >>>Transmitted | М | | INTEGER | According to mapping | YES | ignore |
| Carrier Power Of All Codes Not | | | (0100) | in TS 25.133 [22], measurement | | |
| Used For | | | | "Transmitted Carrier | | |
| HSTransmission | | | | Power Of All Codes | | |
| Value | | | | Not Used For HS- | | |
| | | | | PDSCH, HS-SCCH, E-AGCH, E-RGCH or | | |
| | | | | E-HICHTransmission" | | |
| | | | | and mapping in TS | | |
| | | | | 25.123 [23], | | |
| | | | | measurement "Transmitted Carrier | | |
| | | | | Power Of All Codes | | |
| | | | | Not Used For HS- | | |
| | | | | PDSCH Or HS-SCCH Transmission" | | |
| >>HS-DSCH | | | | 1101101111001011 | | |
| Required Power | | | | | | |

| >>>HS-DSCH Required Power Value Information | M | | 9.2.1.31lc | | YES | ignore |
|---|---|---|-------------------|--|--------|--------|
| >>HS-DSCH Provided Bit Rate | | | | | | |
| >>>HS-DSCH Provided Bit Rate Value Information | M | | 9.2.1.31lb | | YES | ignore |
| >>Transmitted Carrier Power For Cell Portion | | | | FDD Only | | |
| >>>Transmitted Carrier Power For Cell Portion Value | | 1 <max NrOfCel IPortion s></max | | | GLOBAL | ignore |
| >>>Cell Portion ID | М | | 9.2.2.1Ca | | _ | |
| >>>Transmitte d Carrier Power Value | М | | INTEGER (0100) | According to mapping in TS 25.133 [22] | - | |
| >>Received Total Wide Band Power For Cell Portion | | | | FDD Only | | |
| >>>Received Total Wide Band Power For Cell Portion Value | | 1 <max NrOfCel IPortion s></max | | | GLOBAL | ignore |
| >>>Cell Portion ID | М | | 9.2.2.1Ca | | _ | |
| >>>Received Total Wide Band Power Value | М | | INTEGER (0621) | According to mapping in TS 25.133 [22] | - | |
| >>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, E-RGCH or E-HICH Transmission For Cell Portion | | | | FDD Only | | |
| >>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- HICH Transmission For Cell Portion Value | | 1 <max NrOfCel IPortion s></max | | | GLOBAL | ignore |
| >>>Cell Portion ID | М | | 9.2.2.1Ca | | _ | |
| >>>>Transmitte d Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, E- RGCH or E- HICH Transmission | М | | INTEGER (0100) | According to mapping in TS 25.133 [22] | ı | |
| Value >>UpPCH interference | | | | 1.28Mcps TDD Only | | |
| 1111011010100 | Ī | 1 | i | I . | | |

| Solution Solution | | | | | | | |
|--|---|--|----------|--|----------------------|----------|-----------|
| Sold Transmission Branch Load Sold Transmission Branch Load Sold Transmission Branch Load Sold Transmission Branch Load Sold Transmission Sold Tra | | M | | | | YES | ignore |
| Branch Load | interference Value | | | (0127,) | in TS 25.123 [23] | | |
| Second S | >>DL Transmission | | | | FDD Only | | |
| Second S | Branch Load | | | | · · | | |
| Transmission Grant Grant | | M | | INTEGER | According to manning | VES | ignore |
| Branch Load Values | | '*' | | - | | 120 | ignore |
| Values SHS-DSCH Required Power For Cell Portion FDD Only FDD Onl | | | | (0101,) | 111 13 25.133 [22] | | |
| SHS-DSCH Required Power For Cell Portion | | | | | | | |
| Required Power For Cell Portion | | | | | | | |
| Social Portion Soci | >>HS-DSCH | | | | FDD Only | | |
| Social Portion Soci | Required Power | | | | | | |
| Separation Sep | | | | | | | |
| Required Power For Cell Portion Information | | | 1 /may | | | GLOBAL | ignore |
| For Cell Portion Information Portion Information Portion Information Portion ID | | | | | | GLODAL | ignore |
| Information | | | | | | | |
| Note | | | | | | | |
| Portion ID | | | S> | | | | |
| SSSSE-DCH Provided Bit Rate Provided Bit Rate Value Provided Bit Rate Value Provided Bit Rate Value Provided Bit Rate Value Provided Bit Rate Provided B | >>>Cell | M | | 9.2.2.1Ca | | _ | |
| Required Power Value | Portion ID | | | | | | |
| Required Power Value | | М | | 9 2 1 31lc | | _ | |
| Value Information | | '*' | | 0.2.1.0110 | | | |
| Information | | | | | | | |
| SHS-DSCH | | | | | | | |
| Provided Bit Rate For Cell Portion S>HS-DSCH Provided Bit Rate For Cell Portion Portion Portion S> Portion | | | ļ | | | | |
| For Cell Portion S>>HS-DSCH Provided Bit Rate For Cell Portion S> Provided Bit Portion P | | | | | FDD Only | | |
| For Cell Portion S>>HS-DSCH Provided Bit Rate For Cell Portion S> Provided Bit Portion P | Provided Bit Rate | | | 1 | | | |
| >>>HS-DSCH Provided Bit Rate For Cell Portion S> S-DSCH Portion S> Portion ID | For Cell Portion | | | | | | |
| Provided Bit Rate For Cell Portion Information S> | | | 1 -may | 1 | | GLOBAL | ignore |
| Rate For Cell | | | | | | OLODAL | ignore |
| Portion Information | | | | | | | |
| Information | | | | | | | |
| Notion ID | | | S> | | | | |
| Portion ID | Information | | | | | | |
| Portion ID | >>>Cell | M | | 9.2.2.1Ca | | _ | |
| S>>>HS-DSCH | | | | | | | |
| Provided Bit Rate Value Information >>E-DCH Provided Bit Rate >>SE-DCH Provided Bit Rate Value Information >>E-DCH Non-serving Relative Grant Down Commands >>>E-DCH Non-serving Relative Grant Down Commands >>>E-DCH Non-serving Relative Grant Down Commands >>>E-DCH Non-serving Relative Grant Down Commands Name | | NA | | 0.2.1.21lb | | | |
| Rate Value Information >>E-DCH Provided Bit Rate >>SE-DCH M M 9.2.1.78 YES ignore Provided Bit Rate >>SE-DCH Non- serving Relative Grant Down Commands >>Received Scheduled E-DCH Power Share >>>Received Scheduled E-DCH Power Share >>>SRSEPS Value Non- Non- | | IVI | | 9.2.1.3110 | | _ | |
| Information SE-DCH Provided Bit Rate Second Secon | | | | | | | |
| >>E-DCH Provided Bit Rate >>>E-DCH Provided Bit Rate Value Information >>E-DCH Non-serving Relative Grant Down Commands >>>E-DCH Non-serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E-DCH Power Share >>>Received (0151) >>>Received (0621) >>>Received Scheduled E-DCH Power Share >>>>Received (0151) >>>Received (0151) >>>Received (0621) >>>Received (0621) >>>Received (0621) >>>Received (0621) >>>Received (0621) >>>Received (0621) | Rate Value | | | | | | |
| Bit Rate | Information | | | | | | |
| Bit Rate | | | | | | | |
| >>>E-DCH Provided Bit Rate Value Information >>E-DCH Non- serving Relative Grant Down Commands >>>E-DCH Non- serving Relative Grant Down Commands >>>E-DCH Non- serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>>REPPS Value N | | | | | | | |
| Provided Bit Rate Value Information >>E-DCH Non-serving Relative Grant Down Commands >>SE-DCH Non-serving Relative Grant Down Commands >>SE-DCH Non-serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>Share >>>SRSEPS Value Non-serving Relative Grant Down Commands Value Information | | NA | | 0 2 1 70 | | VEC | ianoro |
| Value Information >>E-DCH Non-serving Relative Grant Down Commands FDD Only >>>E-DCH Non-serving Relative Grant Down Commands Per Serving Relative Grant Down Commands Value Information INTEGER (0100,) Down Commands per second YES ignore >>Received Scheduled E-DCH Power Share FDD Only According to definition in TS 25.215 [4] YES ignore >>>Received Scheduled E-DCH Power Share 1 YES ignore >>>RSEPS Value M INTEGER (0151) in TS 25.133 [22] YES ignore >>>RSEPS Value M INTEGER (0621) of RTWP in TS 25.133 [22] - ON TRIVE INTEGER (0621) of RTWP in TS 25.133 [22] >>Received Scheduled E-DCH Power Share for Cell Portion FDD only According to definition in TS 25.215 [4] GLOBAL ignore | | IVI | | 9.2.1.70 | | IES | ignore |
| >>E-DCH Non-serving Relative Grant Down Commands >>>E-DCH Non-serving Relative Grant Down Commands >>>E-DCH Non-serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E-DCH Power Share >>>RSEPS Value NTEGER (0100,) | | | | | | | |
| serving Relative Grant Down Commands >>>E-DCH Non- serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>>Received Scheduled E-DCH Power Share INTEGER According to mapping in TS 25.133 [22] | | | | | | | |
| Grant Down Commands >>>E-DCH Non- serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>RSEPS Value Name | >>E-DCH Non- | | | | FDD Only | | |
| Grant Down Commands >>>E-DCH Non- serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>RSEPS Value Name | serving Relative | | | | j | | |
| Commands System | | | | | | | |
| >>>E-DCH Non-serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E-DCH Power Share >>>>RSEPS Value National State | | | | | | | |
| serving Relative Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E- DCH Power Share >>>>RSEPS Value NTEGER (0151) In TS 25.213 [22] | • | N 4 | - | INITEGED | Down Common to | VEC | iona a ra |
| Grant Down Commands Value Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E-DCH Power Share Scheduled E-DCH Power Share | | IVI | | | | YES | ignore |
| Commands Value Information >>Received Scheduled E-DCH Power Share >>Received Scheduled E-DCH Power Share Scheduled E-DCH Power Share 1 | | | | (0100,) | second | | |
| Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E- DCH Power Share >>>RSEPS Value Name | Grant Down | | | | | | |
| Information >>Received Scheduled E-DCH Power Share >>>Received Scheduled E- DCH Power Share >>>RSEPS Value Name | Commands Value | | | | | | |
| >>Received Scheduled E-DCH Power Share >>>Received Scheduled E- DCH Power Share >>>RSEPS Value >>>>RTWP* Value Scheduled E- Coll Power Share >>>>RTWP* Value 1 INTEGER (0151) INTEGER According to mapping in TS 25.133 [22] >>>>RTWP* Value Scheduled E- Coll Portion >>>Received Scheduled E-DCH Power Share for Cell Portion T GLOBAL ignore | Information | | | | | | |
| Scheduled E-DCH Power Share >>>Received Scheduled E- DCH Power Share >>>>RSEPS Value NTEGER | | İ | | | FDD Only | | |
| Power Share | | | | | | | |
| >>>Received Scheduled E- DCH Power Share 1 INTEGER (0151) According to mapping in TS 25.133 [22] — >>>>RTWP* Value O INTEGER (0621) According to mapping of RTWP in TS 25.133 [22] — >>Received Scheduled E-DCH Power Share for Cell Portion FDD only According to definition in TS 25.215 [4] GLOBAL ignore | | | | | | | |
| Scheduled E-DCH Power Share INTEGER (0151) According to mapping in TS 25.133 [22] — >>>>RTWP* Value O INTEGER (0621) According to mapping of RTWP in TS 25.133 [22] — >>Received Scheduled E-DCH Power Share for Cell Portion FDD only According to definition in TS 25.215 [4] GLOBAL ignore | | | + , | | 111 10 20.210 [4] | \/== | |
| DCH Power Share Share INTEGER (0151) According to mapping in TS 25.133 [22] — >>>>RTWP* Value O INTEGER (0621) According to mapping of RTWP in TS (0621) — >>Received Scheduled E-DCH Power Share for Cell Portion FDD only According to definition in TS 25.215 [4] GLOBAL ignore | | | 1 | | | YES | ignore |
| Share M INTEGER (0151) According to mapping in TS 25.133 [22] — >>>>RTWP* Value O INTEGER (0621) According to mapping of RTWP in TS (25.133 [22]) — >>Received Scheduled E-DCH Power Share for Cell Portion According to definition in TS 25.215 [4] GLOBAL ignore | | | | | | | |
| Share M INTEGER (0151) According to mapping in TS 25.133 [22] — >>>>RTWP* Value O INTEGER (0621) According to mapping of RTWP in TS (25.133 [22]) — >>Received Scheduled E-DCH Power Share for Cell Portion According to definition in TS 25.215 [4] GLOBAL ignore | DCH Power | | | 1 | | | |
| >>>RSEPS Value M INTEGER (0151) According to mapping in TS 25.133 [22] — >>>RTWP* Value O INTEGER (0621) According to mapping of RTWP in TS (25.133 [22]) — >>Received Scheduled E-DCH Power Share for Cell Portion According to definition in TS 25.215 [4] GLOBAL ignore | | | | | | | |
| Value (0151) in TS 25.133 [22] >>>RTWP* O INTEGER (0621) According to mapping of RTWP in TS 25.133 [22] >>Received Scheduled E-DCH Power Share for Cell Portion FDD only According to definition in TS 25.215 [4] >>>Received 1 <max< td=""> GLOBAL ignore</max<> | | М | | INTEGER | According to manning | _ | |
| >>>RCCORDING >>>>RCCORDING NTEGER (0621) According to mapping of RTWP in TS (0621) Power Share for Cell Portion | | '*' | | | | | |
| Value (0621) of RTWP in TS 25.133 [22] >>Received Scheduled E-DCH Power Share for Cell Portion >>>Received 1 <max (0621)="" 25.133="" 25.215="" [22]="" [4]="" according="" definition="" fdd="" global="" ignore<="" in="" of="" only="" rtwp="" td="" to="" ts=""><td></td><td></td><td>+</td><td></td><td></td><td></td><td></td></max> | | | + | | | | |
| 25.133 [22] | | ١٥ | | | | _ | |
| >>Received Scheduled E-DCH Power Share for Cell Portion >>Received 1 <max 25.215="" [4]="" according="" definition="" fdd="" global="" ignore<="" in="" only="" td="" to="" ts=""><td>Value</td><td></td><td></td><td>(0621)</td><td></td><td></td><td></td></max> | Value | | | (0621) | | | |
| >>Received Scheduled E-DCH Power Share for Cell Portion >>Received 1 <max 25.215="" [4]="" according="" definition="" fdd="" global="" ignore<="" in="" only="" td="" to="" ts=""><td></td><td><u> </u></td><td><u> </u></td><td><u> </u></td><td>25.133 [22]</td><td><u> </u></td><td></td></max> | | <u> </u> | <u> </u> | <u> </u> | 25.133 [22] | <u> </u> | |
| Scheduled E-DCH Power Share for Cell Portion >>>Received According to definition in TS 25.215 [4] GLOBAL ignore | >>Received | | | | | | |
| Power Share for Cell Portion in TS 25.215 [4] >>>Received 1 <max< td=""> GLOBAL ignore</max<> | | | | 1 | | | |
| Cell Portion 1 <max< th=""> GLOBAL ignore</max<> | | | | | | | |
| >>> Received 1 <max global="" ignore<="" td=""><td></td><td></td><td></td><td></td><td>III 13 23.213 [4]</td><td></td><td></td></max> | | | | | III 13 23.213 [4] | | |
| | | | . | | | | |
| Scheduled E- NrOfCel | | | | | | GLOBAL | ignore |
| | Scheduled E- | 1 | NrOfCel | | | | |

| DCU Davier | | IDc :#! - :- | 1 | 1 | <u> </u> | |
|-----------------------------------|-------------|---|---------------------------------------|--|----------|--------|
| DCH Power Share For Cell | | IPortion s> | | | | |
| Portion Value | | 32 | | | | |
| >>>Cell | M | | 9.2.2.1Ca | | _ | |
| Portion ID | IVI | | 3.2.2.10d | | _ | |
| >>>RSEPS for | M | | INTEGER | According to mapping | _ | |
| Cell Portion | 141 | | (0151) | in TS 25.133 [22]. | | |
| Value | | | (551) | 5 20. 100 [22]. | | |
| >>>>RTWP* for | 0 | | INTEGER | According to mapping | _ | |
| Cell Portion | _ | | (0621) | of RTWP in TS | | |
| Value | | | (= == -, | 25.133 [22] | | |
| >>UTRAN GANSS | | | | | | |
| Timing Of Cell | | | | | | |
| Frames for UE | | | | | | |
| Positioning | | | | | | |
| >>>Tutran-ganss | М | | 9.2.1.100 | | YES | ignore |
| Measurement | | | | | | |
| Value Information | | | | | | |
| >>E-DCH RACH | | | | FDD Only | | |
| Report | | | | | | |
| >>>E-DCH RACH | | 1< | | The maximum | GLOBAL | ignore |
| Report | | maxnoo | | repetitions should be | | |
| Information | | fCommo | | limited to 1 so that | | |
| | | nEDCH | | this information is | | |
| | | S > | | reported only once for | | |
| Crontod | M | | INTEGER | a cell. | | |
| >>>Granted E-DCH RACH | IVI | | (0240,) | According to mapping in TS 25.302 [25] | _ | |
| Resources | | | (0240,) | III 15 25.302 [25] | | |
| >>>Denied E- | M | | INTEGER | According to mapping | _ | |
| DCH RACH | 141 | | (0240,) | in TS 25.302 [25] | _ | |
| Resources | | | (0240,) | 111 10 20.002 [20] | | |
| >>Transmitted | | | | 1.28Mcps TDD Only | | |
| Carrier Power For | | | | 1.20Mops 100 Offig | | |
| Cell Portion LCR | | | | | | |
| >>>Transmitted | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| Carrier Power | | NrOfCel | | | , | |
| For Cell Portion | | <i>IPortion</i> | | | | |
| Value LCR | | sLCR> | | | | |
| >>>Cell | М | | 9.2.3.107 | | _ | |
| Portion LCR ID | | | | | | |
| >>>>Transmitte | М | | INTEGER | According to mapping | _ | · |
| d Carrier Power | | | (0100) | in TS 25.123 [23] | | |
| Value | | | | | | |
| >>Received Total | | | | 1.28Mcps TDD Only | | |
| Wide Band Power | | | | | | |
| For Cell Portion | | | | | | |
| LCR | | | | | 01.05.41 | |
| >>>Received | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| Total Wide Band Power For Cell | | NrOfCel | | | | |
| Power For Cell Portion Value | | IPortion sLCR> | | | | |
| LCR | | SLUK> | | | | |
| >>>Cell | M | | 9.2.3.107 | | _ | |
| Portion LCR ID | 171 | | 3.2.3.101 | | _ | |
| >>>Received | M | | INTEGER | According to mapping | _ | |
| Total Wide | 141 | | (0621) | in TS 25.123 [23] | | |
| Band Power | | | () | | | |
| Value | | | | | | |
| >>Transmitted | | | | 1.28Mcps TDD Only | | |
| Carrier Power Of All | | | | | | |
| Codes Not Used | | | | | | |
| For HS-PDSCH, | | | | | | |
| HS-SCCH, E- | | | | | | |
| AGCH, or E-HICH | | | | | | |
| Transmission For | | | | | | |
| Cell Portion | | | | | | |
| >>>Transmitted | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| | | | · · · · · · · · · · · · · · · · · · · | | | |

| Carrier Power Of | | NrOfCel | | | | |
|--------------------------|-----|---|------------|----------------------|-------------|--------|
| All Codes Not | | <i>IPortion</i> | | | | |
| Used For HS- | | sLCR> | | | | |
| | | 3LON> | | | | |
| PDSCH, HS- | | | | | | |
| SCCH, E-AGCH, | | | | | | |
| or E-HICH | | | | | | |
| Transmission | | | | | | |
| For Cell Portion | | | | | | |
| Value | | | | | | |
| | N 4 | | 0.0.0.407 | | | |
| >>>Cell | М | | 9.2.3.107 | | - | |
| Portion LCR ID | | | | | | |
| >>>>Transmitte | M | | INTEGER | According to mapping | _ | |
| d Carrier Power | | | (0100) | in TS 25.123 [23] | | |
| Of All Codes | | | (| | | |
| Not Used For | | | | | | |
| | | | | | | |
| HS-PDSCH, | | | | | | |
| HS-SCCH, E- | | | | | | |
| AGCH, or E- | | | | | | |
| HICH | | | | | | |
| Transmission | | | | | | |
| Value | | | | | | |
| >>UL Timeslot | | | + | 1 20Mana TDD Only | | |
| | | | | 1.28Mcps TDD Only | | |
| ISCP For Cell | | 1 | | | | |
| Portion | | <u> </u> | <u> </u> | | <u> </u> | |
| >>>UL Timeslot | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| ISCP For Cell | | NrOfCel | | | - ·= = / ·= | 3 |
| Portion Value | | IPortion 1 | | | | |
| Fortion value | | | | | | |
| | | sLCR> | | | | |
| >>>Cell | M | | 9.2.3.107 | | - | |
| Portion LCR ID | | | | | | |
| >>UL Timeslot | M | | INTEGER | According to mapping | _ | |
| ISCP | | | (0127) | in TS 25.123 [23] | | |
| >>HS-DSCH | | | (0121) | 1.28Mcps TDD Only | | |
| | | | | 1.26MCps 1DD Only | | |
| Required Power | | | | | | |
| For Cell Portion | | | | | | |
| LCR | | | | | | |
| >>>HS-DSCH | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| Required Power | | NrOfCel | | | | 3 |
| For Cell Portion | | <i>IPortion</i> | | | | |
| | | | | | | |
| Information LCR | | sLCR> | | | | |
| >>>Cell | M | | 9.2.3.107 | | - | |
| Portion LCR ID | | | | | | |
| >>>HS-DSCH | M | | 9.2.1.31lc | | _ | |
| Required Power | | | | | | |
| Value | | | | | | |
| Information | | | | | | |
| | | - | - | 4 00M- TDD 0 1 | | |
| >>HS-DSCH | | | | 1.28Mcps TDD Only | | |
| Provided Bit Rate | | | | | | |
| For Cell Portion | | | | | | |
| LCR | | | | | | |
| >>>HS-DSCH | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| Provided Bit | | NrOfCel | | | J_05/(L | .90.0 |
| Rate For Cell | | IPortion | | | | |
| | | | | | | |
| Portion | | sLCR> | | | | |
| Information LCR | | | <u> </u> | | | |
| >>>Cell | M | 1 | 9.2.3.107 | | _ | |
| Portion LCR ID | | <u> </u> | <u> </u> | | <u> </u> | |
| >>>HS-DSCH | М | | 9.2.1.31lb | | _ | |
| Provided Bit | | | | | | |
| Rate Value | | | | | | |
| | | | | | | |
| Information | | | - | 1.0014 ==== : | | |
| >> E-DCH Provided | | 1 | | 1.28Mcps TDD Only | | |
| Bit Rate For Cell | | | | | | |
| Portion | | 1 | | | | |
| >>> E-DCH | | 1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| Provided Bit | | NrOfCel | | | J_05/12 | .90.0 |
| O TIGOG DIL | ĺ | | | | | |
| Rate For Cell | | IPARIAN | | | | |
| Rate For Cell Portion | | IPortion sLCR> | | | | |

| Information | | | | | | |
|--|---|--|--------------------|--|--------|--------|
| >>>Cell Portion LCR ID | М | | 9.2.3.107 | | - | |
| >>>> E-DCH Provided Bit Rate Value Information | M | | 9.2.1.78 | | 1 | |
| >> UpPCH interference For Cell Portion | | | | 1.28Mcps TDD Only | | |
| >>> UpPCH interference For Cell Portion Information | | 1 <max NrOfCel IPortion sLCR></max | | | GLOBAL | ignore |
| >>>Cell Portion LCR ID | М | | 9.2.3.107 | | _ | |
| >>>> UpPCH interference Value | M | | INTEGER (0127,) | According to mapping in TS 25.123 [23] | - | |

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

| Range Bound | Explanation |
|------------------------|--|
| MaxNrOfCellPortions | Maximum number of Cell Portions in a cell |
| maxnoofCommonEDCHs | Maximum number of Common E-DCH Resource Combination for a cell |
| MaxNrOfCellPortionsLCR | Maximum number of Cell Portions in a cell for 1.28 Mcps TDD |

9.2.1.12A Common Measurement Value Information

The *Common Measurement Value Information* IE provides information both on whether the Common Measurement Value is provided in the message or not and if provided also the Common Measurement Value itself.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Measurement | M | | | |
| Availability Indicator | | | | |
| >Measurement Available | | | | |
| >>Common Measurement | M | | 9.2.1.12 | |
| Value | | | | |
| >Measurement Not Available | | | NULL | |

9.2.1.13 Common Physical Channel ID

Common Physical Channel ID is the unique identifier for one common physical channel within a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Common Physical Channel ID | | | INTEGER (0255) | |

9.2.1.13A Common Physical Channel Status Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Common Physical Channel ID | M | | 9.2.1.13 | |
| Resource Operational State | M | | 9.2.1.52 | |
| Availability Status | M | | 9.2.1.2 | |

9.2.1.14 Common Transport Channel ID

Common Transport Channel ID is the unique identifier for one common transport channel within a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| Common Transport Channel ID | | | INTEGER (0255) | |

9.2.1.14A Common Transport Channel Information Response

The Common Transport Channel Information Response IE provides information for Common Transport Channels that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|--------------------------|--------------------------|-------------|----------------------|
| Common Transport Channel ID | М | | 9.2.1.14 | | ı | |
| Binding ID | 0 | | 9.2.1.4 | | _ | |
| Transport Layer Address | 0 | | 9.2.1.63 | | _ | |
| Broadcast Common Transport Bearer Indication | 0 | | 9.2.1.5B | | YES | ignore |
| IP Multicast Data Bearer Indication | 0 | | 9.2.1.109 | | YES | ignore |

9.2.1.14B Common Transport Channel Status Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| Common Transport Channel ID | М | | 9.2.1.14 | |
| Resource Operational State | М | | 9.2.1.52 | |
| Availability Status | M | | 9.2.1.2 | |

9.2.1.15 Communication Control Port ID

A Communication Control Port corresponds to one signalling bearer between the CRNC and the Node B for the control of Node B Communication Contexts. The Node B may have multiple Communication Control Ports (one per Traffic Termination Point). The Communication Control Port is selected at creation of the Node B Communication Context. The Communication Control Port ID is the identifier of the Communication Control Port.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|--------------------------|-----------------------|
| Communication Control Port ID | | | INTEGER (065535) | |

9.2.1.16 Configuration Generation ID

The Configuration Generation ID describes the generation of the configuration of logical resources in a cell.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------------|----------|-------|----------------|---|
| | | | Reference | |
| Configuration Generation ID | | | INTEGER (0255) | Value "0" means "No configuration". At possible wraparound of the ID counter in CRNC the value "0" shall not be used. |

9.2.1.17 Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by a Node B or the CRNC when parts of a received message have not been comprehended or are missing, or if the message contained logical errors. When applicable, it contains information about which IEs that were not comprehended or were missing.

For further details on how to use the Criticality Diagnostics IE, see Annex C.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|--|---|-------------|----------------------|
| Procedure ID | | 01 | | Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error | _ | |
| >Procedure Code | М | | INTEGER (0255) | oddodd trio orror | _ | |
| >Ddmode | М | | ENUMERATED (TDD, FDD, Common, | "Common" = common to FDD and TDD. | - | |
| Triggering Message | 0 | | ENUMERATED (initiating message, successful outcome, unsuccessful outcome, outcome, outcome) | The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication. | _ | |
| Procedure Criticality | 0 | | ENUMERATED (reject, ignore, notify) | This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure). | - | |
| Transaction ID | 0 | | 9.2.1.62 | | _ | |
| Information Element Criticality Diagnostics | | 0 <max nooferro rs></max | | | _ | |
| >IE Criticality | М | | ENUMERATED (reject, ignore, notify) | The IE Criticality is used for reporting the criticality of the triggering IE. The value "ignore" shall never be used. | - | |
| >IE ID | М | | INTEGER (065535) | The IE ID of the not understood or missing IE | - | |
| >Repetition Number | 0 | | INTEGER (0255) | The Repetition Number IE gives: for a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence for a missing IE: The number of occurrences up to but not including the missing occurrence. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality | _ | |

| | | | above them. | | |
|-----------------------|---|--|---|-----|--------|
| >Message Structure | 0 | 9.2.1.45A | The Message Structure IE describes the structure where the not understood or missing IE was detected. This IE is included if the not understood IE is not the top level of the message. | YES | ignore |
| >Type Of Error | M | ENUMERATED (not understood, missing,) | | YES | ignore |

| Range Bound | Explanation |
|---------------|--|
| maxnooferrors | Maximum number of IE errors allowed to be reported with a single |
| | message. |

9.2.1.18 CRNC Communication Context ID

The CRNC Communication Context ID is the identifier of the Communication Context in the CRNC.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------------|----------|-------|------------------|------------------------------|
| | | | Reference | |
| CRNC Communication Context | | | INTEGER (02^20 - | "2^20-1" is a reserved value |
| ID | | | 1) | indicating all the CRNC |
| | | | | Communication Contexts that |
| | | | | can be reached by the |
| | | | | Communication Control Port |
| | | | | (All CRNCCC). |

9.2.1.18A CTFC

The CTFC is an integer number calculated in accordance with TS 25.331 [18], subclause 14.10. Regarding the channel ordering, for all transport channels, "TrCH1" corresponds to the transport channel having the lowest transport channel identity among all configured transport channels on this CCTrCH. "TrCH2" corresponds to the transport channel having the next lowest transport channel identity, and so on.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| CHOICE CTFC Format | M | | | |
| >2 bits long | | | | |
| >>CTFC value | M | | INTEGER (03) | |
| >4 bits long | | | | |
| >>CTFC value | M | | INTEGER (015) | |
| >6 bits long | | | | |
| >>CTFC value | M | | INTEGER (063) | |
| >8 bits long | | | | |
| >>CTFC value | M | | INTEGER (0255) | |
| >12 bits long | | | | |
| >>CTFC value | M | | INTEGER (04095) | |
| >16 bits long | | | | |
| >>CTFC value | M | | INTEGER (065535) | |
| >max nb bits long | | | | |
| >>CTFC value | М | | INTEGER (0maxCTFC) | |

| Range Bound | Explanation |
|-------------|--|
| MaxCTFC | Maximum number of the CTFC value is calculated according to the following: |
| | $\sum_{i=1}^{I} (L_i - 1) P_i$ |
| | with the notation according to ref. TS 25.331 [18] |

9.2.1.19 DCH Combination Indicator

Void.

9.2.1.20 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| DCH ID | | | INTEGER (0255) | |

9.2.1.20A Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the [FDD - allocated Spreading Factor and the RL/RLS situation] [TDD - allocated Spreading Factor on each DPCH and the assigned timeslot]. [FDD - In Uplink, the reference spreading factor shall be the minimum spreading factor signalled in the Radio Link Setup Request message. This is signalled using the *Min UL Channelisation Code Length* IE.]

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion
- [TDD Physical Shared Channel Reconfiguration]

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

[FDD - For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account.

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by either the radio links, the cost credited to or debited from the Capacity Credit shall be taken as N times the cost for one code, where N is the number of channelization codes.]

[TDD - The cost for a radio link is a sum of the costs for each DPCH. For the first DPCH assigned to any user in a cell within a timeslot, the initial cost for a DPCH in a timeslot (cost 1) and the cost for a DPCH (cost 2) shall be taken into account. For any DPCH that is not the first DPCH assigned for any user in a cell within a timeslot, only the cost for a DPCH (cost 2) shall be taken into account.]

[TDD - The cost for shared channels is the sum of the costs for each PDSCH and PUSCH assigned to a PUSCH or PDSCH set. For the first PDSCH or PUSCH assigned to any user in a cell within a timeslot, the initial cost for a PDSCH/PUSCH in a timeslot (cost 1) and the cost for a PDSCH/PUSCH (cost 2) shall be taken into account. For any PDSCH/PUSCH that is not the first PDSCH/PUSCH assigned to any user in a cell within a timeslot, only the cost for a PDSCH/PUSCH (cost 2) shall be taken into account.]

[TDD - In the case of Physical Shared Channel Reconfiguration, the sum of the consumption cost of the each PDSCH/PUSCH of the previous configuration shall be credited to the capacity credit, and the sum of the consumption cost of each PDSCH/PUSCH of the new configuration shall be subtracted from the capacity credit.]

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-------------------|----------|----------------------------------|------------------|--|
| OF Allered and | | | Reference | 1500 5 1 05 1 () |
| SF Allocation Law | | 1 <maxno ofSFs></maxno | | [FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.] |
| >DL Cost 1 | М | | INTEGER (065535) | [FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.] |
| >DL Cost 2 | М | | INTEGER (065535) | [FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH] |
| >UL Cost 1 | М | | INTEGER (065535) | [FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.] |
| >UL Cost 2 | М | | INTEGER (065535) | [FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH.] |

| Range Bound | Explanation | | |
|-------------|-------------------------------------|--|--|
| maxnoofSFs | Maximum number of Spreading Factors | | |

9.2.1.20B DL Or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a Local Cell or a Local Cell Group.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|--------------------------|-----------------------|
| DL Or Global Capacity Credit | | | INTEGER (065535) | |

9.2.1.20C DCH Information Response

The DCH Information Response IE provides information for DCHs that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|------------------------------------|-----------------------------|--|-------------|-------------------------|
| DCH Information Response | | 1 <maxnoo fDCHs></maxnoo | | Only one DCH per set of coordinated DCHs shall be included | - | |
| >DCH ID | M | | 9.2.1.20 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | | _ | |
| >Transport Bearer Not Setup Indicator | 0 | | 9.2.2.4H | FDD only | YES | ignore |

| Range Bound | Explanation | |
|-------------|------------------------------|--|
| maxnoofDCHs | Maximum number of DCH per UE | |

9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.]

[TDD - If referred to a DPCH or PDSCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher. If referred to a SCCPCH, the *DL Power* IE specifies the maximum power of the SCCPCH.]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| DL Power | | | INTEGER (-350150) | Value = DL Power /10 Unit: dB Range: -35.0 +15.0 dB Step: 0.1dB |

9.2.1.22 Dedicated Measurement Object Type

Void.

9.2.1.23 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description | | | |
|--|----------|-------|----------------------|---------------------------------|--|--|--|
| - | | | Reference | - | | | |
| Dedicated Measurement Type | | | ENUMERATED (| "RSCP" and "HS-SICH | | | |
| | | | SIR, | reception quality" are used by | | | |
| | | | SIR Error, | TDD only. | | | |
| | | | Transmitted Code | "Rx Timing Deviation" and "Rx | | | |
| | | | Power, | Timing Deviation 3.84 Mcps | | | |
| | | | RSCP, | Extended" are used by | | | |
| | | | Rx Timing Deviation, | 3.84Mcps TDD only. | | | |
| | | | Round Trip Time, | "Rx Timing Deviation LCR", | | | |
| | | | , | "Angle Of Arrival LCR" are | | | |
| | | | Rx Timing Deviation | used by 1.28Mcps TDD only. | | | |
| | | | LCR, | "Round Trip Time", "SIR Error" | | | |
| | | | Angle Of Arrival | are used by FDD only. | | | |
| | | | LCR, | 'Best Cell Portions' is used by | | | |
| | | | HS-SICH reception | FDD only. | | | |
| | | | quality, | 'Best Cell Portions LCR' is | | | |
| | | | Best Cell Portions, | used by 1.28Mcps TDD only. | | | |
| | | | Rx Timing Deviation | "Rx Timing Deviation | | | |
| | | | 7.68Mcps, | 7.68Mcps" is used by | | | |
| | | | Rx Timing Deviation | 7.68Mcps TDD only. | | | |
| | | | 3.84 Mcps | | | | |
| | | | Extended, Best Cell | | | | |
| | | | Portions LCR) | | | | |
| Note: For definitions of the measurement types refer to TS 25.215 [4] and TS 25.225 [5]. | | | | | | | |

9.2.1.24 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|--------------|-------|---|--|-------------|----------------------|
| CHOICE Dedicated | M | | | | _ | |
| Measurement Value | | | | | | |
| >SIR Value | | | | | | |
| >>SIR Value | M | | INTEGER (063) | According to mapping in TS 25.133 [22] and TS 25.123 [23] | _ | |
| >SIR Error Value | | | | FDD only | | |
| >>SIR Error Value | М | | INTEGER (0125) | According to mapping in TS 25.133 [22] | _ | |
| >Transmitted Code Power Value | | | | | | |
| >>Transmitted Code Power Value | M | | INTEGER (0127) | According to mapping in TS 25.133 [22] and TS 25.123 [23]. Values 0 to 9 and 123 to 127 shall not be used. | _ | |
| >RSCP | | | | TDD only | | |
| >>RSCP | М | | INTEGER (0127) | According to mapping in TS 25.123 [23] | - | |
| >Rx Timing Deviation Value | | | INITEGER | Applicable to 3.84Mcps TDD only | | |
| >>Rx Timing | М | | INTEGER | According to mapping | _ | |
| Deviation >Round Trip Time | | | (08191) | in TS 25.123 [23] FDD only | <u> </u> | |
| >>Round Trip Time | M | | INTEGER | According to mapping | | |
| >Additional | IVI | | (032767) | in TS 25.133 [22] See Note 1. | _ | |
| Dedicated Measurement Values | | | | See Note 1. | | |
| >>Rx Timing Deviation Value LCR | | | | Applicable to 1.28Mcps TDD only | | |
| >>>Rx Timing Deviation LCR | М | | INTEGER (0511) | According to mapping in TS 25.123 [23] | YES | reject |
| >>Angle Of Arrival Value LCR | | | | Applicable to 1.28Mcps TDD only | | |
| >>>AOA Value LCR | | 1 | | | YES | reject |
| >>>AOA LCR | M | | INTEGER (0719) | According to mapping in TS 25.123 [23] | _ | |
| >>>AOA LCR Accuracy Class | M | | ENUMERATE D (A, B, C, D, E, F, G, H,) | According to mapping in TS 25.123 [23] | _ | |
| >>HS-SICH Reception Quality | | | | Applicable to TDD only | | |
| >>>HS-SICH Reception Quality Value | | 1 | | | YES | reject |
| >>>Failed HS- SICH | М | | INTEGER (020) | According to mapping in TS 25.123 [23] | - | |
| >>>Missed HS-SICH | М | | INTEGER (020) | According to mapping in TS 25.123 [23] | _ | |
| >>>Total HS- SICH | M | | INTEGER (020) | According to mapping in TS 25.123 [23] | _ | |
| >>>Failed HS- SICH LCR extension | 0 | | INTEGER (020) | According to mapping in TS 25.123 [23] Mandatory for LCR TDD when there are more than 20 failed HS-SICH | YES | reject |
| >>>Missed HS-SICH LCR extension | 0 | | INTEGER (020) | According to mapping in TS 25.123 [23] Mandatory for LCR | YES | reject |

| >>>>Total HS- SICH LCR | 0 | INTEGER | TDD when there are more than 20 missed HS-SICH According to mapping in TS 25.123 [23] | YES | reject |
|---|---|------------------------------|---|-----|--------|
| extension | | (020) | Mandatory for LCR TDD when there are more than 20 total HS-SICH | | |
| >>Best Cell Portions | | | FDD only | | |
| >>>Best Cell Portions | М | 9.2.2.1Ba | | YES | reject |
| >>Rx Timing Deviation Value 7.68Mcps | | | Applicable to 7.68Mcps TDD only | | |
| >>>Rx Timing Deviation 7.68Mcps | M | INTEGER (065535) | According to mapping in TS 25.123 [23] | YES | reject |
| >>Rx Timing Deviation Value 3.84Mcps Extended | | | Applicable to 3.84Mcps TDD only | | |
| >>>Rx Timing Deviation 3.84Mcps Extended | M | INTEGER (032767) | According to mapping in TS 25.123 [23] | YES | reject |
| >>Extended Round Trip Time | | | FDD only | | |
| >>>Extended Round Trip Time Value | М | INTEGER (3276710304 1) | Continuation of intervals with step size as defined in TS 25.133 [22]. | YES | reject |
| >>Best Cell Portions LCR | | | 1.28Mcps TDD only | | |
| >>>Best Cell Portions LCR | M | 9.2.3.105 | | YES | reject |

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocollE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

9.2.1.24A Dedicated Measurement Value Information

The *Dedicated Measurement Value Information* IE provides information both on whether or not the Dedicated Measurement Value is provided in the message or not and if provided also the Dedicated Measurement Value itself.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|----------------------------|
| CHOICE Measurement | М | | | |
| Availability Indicator | | | | |
| >Measurement Available | | | | |
| >>Dedicated Measurement | М | | 9.2.1.24 | |
| Value | | | | |
| >>CFN | 0 | | 9.2.1.7 | Dedicated Measurement Time |
| | | | | Reference |
| >Measurement Not Available | | | NULL | |

9.2.1.24B DGPS Corrections

The DGPS Corrections IE contains DGPS information used by the UE Positioning A-GPS method. For further details on the meaning of parameters, see RTCM-SC104 [28].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---------------------------|----------|------------------------------|---|---|-------------|----------------------|
| GPS TOW | M | | INTEGER (0604799) | Time in seconds. This field indicates the baseline time for which the corrections are valid. | - | • |
| Status/Health | M | | ENUMERATED (UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.1, no data, invalid data) | This field indicates the status of the differential corrections. | _ | |
| Satellite Information | | 1 <max NoSat></max | | | - | |
| >SatID | M | | INTEGER (063) | Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in ICD-GPS-200 [27]. | - | |
| >IODE | M | | BIT STRING (8) | This IE is the sequence number for the ephemeris for the particular satellite. It can be used to determine if new ephemeris is used for calculating the corrections that are provided. This eightbit IE is incremented for each new set of ephemeris for the satellite and may occupy the numerical range of [0, 239] during normal operations. | _ | |
| >UDRE | M | | ENUMERATED (UDRE ≤1.0m, 1.0m < UDRE ≤ 4.0m, 4.0m < UDRE ≤ 8.0m, 8.0m < UDRE) | User Differential Range Error. This field provides an estimate of the uncertainty (1- o) in the corrections for the particular satellite. The value in this field shall be multiplied by the UDRE Scale Factor in the common Corrections Status/Health field to determine the final UDRE estimate for the particular satellite | _ | |
| >PRC | М | | INTEGER (-20472047) | Pseudo Range Correction Unit: m (meters) Step: 0.32 meters | - | |
| >Range Correction Rate | М | | INTEGER (-127127) | Unit: m/s Step: 0.032 m/s | _ | |
| >DGNSS Validity Period | 0 | | 9.2.1.125 | | YES | ignore |

| Range Bound | | Explanation | | | |
|-------------|----------|--|--|--|--|
| | maxNoSat | Maximum number of satellites for which information can be provided | | | |

9.2.1.24C Delayed Activation

The *Delayed Activation* IE indicates that the activation of the DL power shall be delayed until an indicated CFN or until a separate activation indication is received.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Delayed Activation | M | | | |
| >CFN | | | | |
| >>Activation CFN | M | | CFN 9.2.1.7 | |
| >Separate Indication | | | NULL | |

9.2.1.24D Delayed Activation Update

The Delayed Activation Update IE indicates a change of the activation of the DL power for a specific RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned criticality |
|-----------------------|----------|-------|-----------------------|--------------------------|-------------|----------------------|
| CHOICE Delayed | M | | | | _ | |
| Activation Update | | | | | | |
| >Activate | | | | | | |
| >>CHOICE Activation | M | | | | _ | |
| Type | | | | | | |
| >>>Synchronised | | | | | | |
| >>>Activation CFN | M | | CFN 9.2.1.7 | | _ | |
| >>>Unsynchronised | | | NULL | | | |
| >>Initial DL TX Power | M | | DL Power | | _ | |
| | | | 9.2.1.21 | | | |
| >>First RLS Indicator | 0 | | 9.2.2.16A | FDD Only | _ | |
| >>Propagation Delay | 0 | | 9.2.2.35 | FDD Only | _ | |
| >>Extended | 0 | | 9.2.2.35A | FDD Only | YES | reject |
| Propagation Delay | | | | | | • |
| >Deactivate | | | | | | |
| >>CHOICE | M | | | | _ | |
| Deactivation Type | | | | | | |
| >>>Synchronised | | | | | | |
| >>>>Deactivation | M | | CFN 9.2.1.7 | | _ | |
| CFN | | | | | | |
| >>>Unsynchronised | | | NULL | | | |

9.2.1.24E Discard Timer

The *Discard Timer* IE defines the time to live for a MAC-hs SDU starting from the instant of its arrival into an HSDPA Priority Queue. The Node B shall use this information to discard out-of-data MAC-hs SDUs from the HSDPA Priority Queues.

| IE/Group Name | Presence | Range | IE type and | Semantics description |
|---------------|----------|-------|-----------------------|-----------------------|
| | | | reference | |
| Discard Timer | | | ENUMERATED (20, | Unit: ms |
| | | | 40, 60, 80, 100, 120, | |
| | | | 140, 160, 180, 200, | |
| | | | 250, 300, 400, 500, | |
| | | | 750, 1000, 1250, | |
| | | | 1500, 1750, 2000, | |
| | | | 2500, 3000, 3500, | |
| | | | 4000, 4500, 5000, | |
| | | | 7500,) | |

9.2.1.25 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|------------------------------------|-----------------------|
| Diversity Control Field | | | ENUMERATED (May, Must, Must Not,) | |

9.2.1.26 Diversity Indication

Void.

9.2.1.26A DL DPCH Timing Adjustment

Void.

9.2.1.27 DSCH ID

Void.

9.2.1.27A DSCH Information Response

Void

9.2.1.28 DSCH Transport Format Set

Void.

9.2.1.29 DSCH Transport Format Combination Set

Void.

9.2.1.29A End Of Audit Sequence Indicator

Indicates if the AUDIT RESPONSE message ends an audit sequence or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--|--|
| End Of Audit Sequence Indicator | | | ENUMERATED (End of audit sequence, Not end of audit sequence) | "End of audit sequence" = all audit information has been provided by the Node B. "Not end of audit sequence" = more audit information is available. |

9.2.1.29B FN Reporting Indicator

The Frame Number Reporting Indicator indicates if the SFN or CFN shall be included together with the reported measurement value.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|------------------------|----------|-------|------------------|-----------------------|
| | | | Reference | |
| FN Reporting Indicator | | | ENUMERATED (| |
| | | | FN Reporting | |
| | | | Required, | |
| | | | FN Reporting Not | |
| | | | Required) | |

9.2.1.30 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH [TDD - DSCH] for temporary restriction of the allocated resources due overload reason.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------------|
| Frame Handling Priority | | | INTEGER (015) | "0" = lowest priority, |
| | | | | "15" = highest priority |

9.2.1.31 Frame Offset

The Frame Offset is the required offset between the dedicated channel downlink transmission frames (CFN, Connection Frame Number) and the broadcast channel frame offset (Cell Frame Number). The Frame Offset is used in the translation between Connection Frame Number (CFN) on Iub/Iur and the least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Frame Offset | | | INTEGER (0255) | Frames |

9.2.1.31A IB_OC_ID

The IB OC ID identifies the occurrence of a specific Information Block.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| IB OC ID | | | INTEGER (116) | Value 1 indicates the first occurrence for the specific Information Block. |
| | | | | Value 2 indicates the second occurrence for the specific Information Block. |
| | | | | |
| | | | | Value 16 indicates the sixteenth occurrence for the specific Information Block. |

9.2.1.31B GPS Navigation Model & Time Recovery

This IE contains subframes 1 to 3 of the GPS navigation message. For further details on the meaning of parameters, see ICD-GPS-200 [27].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|--------------------------------|--------------------------|--|
| Navigation Message 1to3 | | 1 <maxno Sat></maxno | | |
| >Transmission TOW | М | | INTEGER (01048575) | Time of the Week when the message is broadcast. |
| >SatID | М | | INTEGER (063) | Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in ICD-GPS-200 [27]. |
| >TLM Message | М | | BIT STRING (14) | |
| >Tlm Revd (C) | М | | BIT STRING (2) | |
| >HO-Word | M | | BIT STRING (22) | |
| >WN | M | | BIT STRING (10) | |
| >C/A or P on L2 | M | | BIT STRING (2) | |
| >User Range Accuracy Index | M | | BIT STRING (4) | |
| >SV Health | M | | BIT STRING (6) | |
| >IODC | M | | BIT STRING (10) | |
| >L2 P Data Flag | M | | BIT STRING (1) | |
| >SF 1 Reserved | M | | BIT STRING (87) | |
| >T _{GD} | М | | BIT STRING (8) | |
| >t _{oc} | M | | BIT STRING (16) | |
| >af ₂ | M | | BIT STRING (8) | |
| >af ₁ | M | | BIT STRING (16) | |
| >af ₀ | M | | BIT STRING (22) | |
| >C _{rs} | M | | BIT STRING (16) | |
| >Δn | M | | BIT STRING (16) | |
| >M ₀ | M | | BIT STRING (32) | |
| >C _{uc} | M | | BIT STRING (16) | |
| >e | M | | BIT STRING (32) | |
| >C _{us} | М | | BIT STRING (16) | |
| >(A) ^{1/2} | М | | BIT STRING (32) | |
| >t _{oe} | M | | BIT STRING (16) | |
| >Fit Interval Flag | М | | BIT STRING (1) | |
| >AODO | M | | BIT STRING (5) | |
| >C _{ic} | М | | BIT STRING (16) | |
| >OMEGA ₀ | М | | BIT STRING (32) | |
| >C _{is} | М | | BIT STRING (16) | |
| >i ₀ | М | | BIT STRING (32) | |
| >C _{rc} | М | | BIT STRING (16) | |
| >ω | М | | BIT STRING (32) | |
| >OMEGAdot | М | | BIT STRING (24) | |
| >ldot | M | | BIT STRING (14) | |
| >Spare/zero fill | М | | BIT STRING (20) | |

| Range Bound | Explanation | | |
|-------------|--|--|--|
| maxNoSat | Maximum number of satellites for which information can be provided | | |

9.2.1.31C GPS Ionospheric Model

This IE provides the information regarding the GPS Ionospheric Model. For further details on the meaning of parameters, see ICD-GPS-200 [27].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------|----------|-------|----------------|-----------------------|
| | | | Reference | |
| α_0 | M | | BIT STRING (8) | |
| α_1 | M | | BIT STRING (8) | |
| α_2 | M | | BIT STRING (8) | |
| α_3 | M | | BIT STRING (8) | |
| β_0 | M | | BIT STRING (8) | |
| β1 | M | | BIT STRING (8) | |
| β_2 | M | | BIT STRING (8) | |
| β ₃ | M | | BIT STRING (8) | |

9.2.1.31D GPS UTC Model

This IE provides the information regarding the GPS UTC Model. For further details on the meaning of parameters, see ICD-GPS-200 [27].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|-----------------------|-----------------------|
| A ₁ | M | | BIT STRING (24) | |
| A ₀ | M | | BIT STRING (32) | |
| t _{ot} | M | | BIT STRING (8) | |
| Δt_{LS} | M | | BIT STRING (8) | |
| WNt | M | | BIT STRING (8) | |
| WN _{LSF} | M | | BIT STRING (8) | |
| DN | M | | BIT STRING (8) | |
| Δt_{LSF} | M | | BIT STRING (8) | |

9.2.1.31E GPS Real-Time Integrity

This IE provides the information regarding the status of the GPS constellation. For further details on the meaning of parameters, see ICD-GPS-200 [27].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|--------------------------------|--------------------------|--|
| CHOICE Bad Satellites Presence | М | | | |
| >Bad Satellites | | | | |
| >>Satellite Information | | 1 <maxno Sat></maxno | | |
| >>>BadSatID | M | | INTEGER (063) | Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in ICD-GPS-200 [27]. |
| >No Bad Satellites | | | NULL | |

| Range Bound | Explanation |
|-------------|--|
| maxNoSat | Maximum number of satellites for which information can be provided |

9.2.1.31F GPS Almanac

This IE provides the information regarding the GPS Almanac. For further details on the meaning of parameters, see ICD-GPS-200 [27].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------|----------|--|------------------|---------------------------------|
| | | | Reference | |
| WN _a | M | | BIT STRING (8) | |
| Satellite Information | M | 1 <maxno< td=""><td></td><td>See Note 1.</td></maxno<> | | See Note 1. |
| | | OfSatAlma | | |
| | | nac> | | |
| >DataID | M | | INTEGER (03) | |
| >SatID | M | | INTEGER (063) | Identifies the satellite and is |
| | | | | equal to (SV ID No - 1) where |
| | | | | SV ID No is defined in ICD- |
| | | | | GPS-200 [27]. |
| >e | M | | BIT STRING (16) | |
| >t _{oa} | M | | BIT STRING (8) | |
| >δi | M | | BIT STRING (16) | |
| >OMEGADOT | M | | BIT STRING (16) | |
| >SV Health | M | | BIT STRING (8) | |
| >A ^{1/2} | M | | BIT STRING (24) | |
| >OMEGA ₀ | M | | BIT STRING (24) | |
| >M ₀ | M | | BIT STRING (24) | |
| >ω | M | | BIT STRING (24) | |
| >af ₀ | M | | BIT STRING (11) | |
| >af ₁ | M | | BIT STRING (11) | |
| SV Global Health | 0 | | BIT STRING (364) | |

Note 1: This information element is a simplified representation of the ASN.1 description. Repetitions 1 through maxNoSat and repetitions maxNoSat+1 through maxNoOfSatAlmanac are represented by separate ASN.1 structures with different criticality.

| Range Bound | Explanation |
|-------------------|---|
| maxNoOfSatAlmanac | Maximum number of satellite almanacs for which information can be |
| | provided |

9.2.1.31G GPS Receiver Geographical Position (GPS RX Pos)

The GPS Receiver Geographical Position is used to identify the geographical coordinates of a GPS receiver relevant for a certain Information Exchange Object.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--|--|
| Latitude Sign | M | | ENUMERATED (North, South) | |
| Degrees of Latitude | M | | INTEGER (02 ²³ -1) | The IE value (N) is derived by this formula: $N \le 2^{23} X /90 < N+1$ X being the latitude in degree (0° 90°) |
| Degrees of Longitude | M | | INTEGER (-2 ²³ 2 ²³ -1) | The IE value (N) is derived by this formula: N≤2 ²⁴ X /360 < N+1 X being the longitude in degree (-180°+180°) |
| Direction of Altitude | M | | ENUMERATED (Height, Depth) | |
| Altitude | M | | INTEGER (02 ¹⁵ -1) | The relation between the value (N) and the altitude (a) in meters it describes is N≤ a <n+1, except="" for="" n="2<sup">15-1 for which the range is extended to include all greater values of (a).</n+1,> |

9.2.1.31Ga HSDPA Capability

This parameter defines the HSDPA capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--|-----------------------|
| HSDPA Capability | | | ENUMERATED (HSDPA Capable, HSDPA non Capable) | |

9.2.1.31H HS-DSCH Information To Modify

The *HS-DSCH Information To Modify* IE is used for modification of HS-DSCH information in a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|--|--|-------------|----------------------|
| HS-DSCH MAC-d Flow Specific Information | | 0 <maxno ofMACdFl ows></maxno | Reference | | _ | |
| >HS-DSCH MAC-d Flow ID | М | | 9.2.1.311 | | _ | |
| >Allocation/Retention Priority | 0 | | 9.2.1.1A | | - | |
| >Transport Bearer Request Indicator | М | | 9.2.1.62A | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | - | |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | _ | |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| Priority Queue Information | | 0 <maxno ofPrioQue ues></maxno | | | _ | |
| >CHOICE Priority Queue | М | | | | _ | |
| >>Add Priority Queue | | | | | | |
| >>>Priority Queue ID | M | | 9.2.1.49C | | _ | |
| >>>Associated HS- DSCH MAC-d Flow | M | | HS-DSCH MAC-d Flow ID 9.2.1.31I | Shall only refer to an HS-DSCH MAC-d flow already existing in the old configuration. Multiple Priority Queues can be associated with the same HS-DSCH MAC-d Flow ID. | _ | |
| >>>Scheduling Priority Indicator | М | | 9.2.1.53H | | _ | |
| >>>T1 | M | . | 9.2.1.56a | 1 | _ | |
| >>>Discard Timer >>>MAC-hs Window Size | O M | | 9.2.1.24E 9.2.1.38B | | _ | |
| >>>MAC-hs Guaranteed Bit Rate | 0 | | 9.2.1.38Aa | | _ | |
| >>>MAC-d PDU Size Index | | 1 <maxno ofMACdP DUindexes</maxno | | | _ | |
| >>>SID | M | | 9.2.1.531 | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | - | |
| >>>>MAC-d PDU Size | M | | 9.2.1.38A | Shall be ignored if Maximum | _ | |

| | | | | MAC-d PDU | | |
|--|---|--|------------|---|-----|--------|
| | | | | Size Extended | | |
| | | | | IE is present. | | |
| >>>RLC Mode | M | | 9.2.1.52B | | _ | |
| >>>Maximum MAC-d | 0 | | MAC PDU | | YES | reject |
| PDU Size Extended | | | Size | | | |
| | | | Extended | | | |
| DI DI O DDI I O | | | 9.2.1.38C | | | |
| >>>DL RLC PDU Size | 0 | | 9.2.1.122 | | Yes | ignore |
| Format | | | | | | |
| >>Modify Priority Queue >>>Priority Queue ID | M | | 9.2.1.49C | Shall only refer | | |
| , and the second | | | | Shall only refer to a Priority Queue already existing in the old configuration. | _ | |
| >>>Scheduling Priority Indicator | 0 | | 9.2.1.53H | | _ | |
| >>>T1 | 0 | | 9.2.1.56a | | _ | |
| >>>Discard Timer | 0 | | 9.2.1.24E | | _ | |
| >>>MAC-hs Window | 0 | | 9.2.1.38B | | _ | |
| Size | | | | | | |
| >>>MAC-hs Guaranteed Bit Rate | 0 | | 9.2.1.38Aa | | - | |
| >>>MAC-d PDU Size | | 0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<> | | | - | |
| Index | | ofMACdP DUindexes > | | | | |
| >>>SID | М | | 9.2.1.531 | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | - | |
| >>>>MAC-d PDU Size | М | | 9.2.1.38A | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | - | |
| >>>Maximum MAC-d | 0 | | MAC PDU | • | YES | reject |
| PDU Size Extended | | | Size | | | , |
| | | | Extended | | | |
| | | | 9.2.1.38C | | | |
| >>>DL RLC PDU Size | 0 | | 9.2.1.122 | | Yes | ignore |
| Format | | | | | | |
| >>Delete Priority Queue | | | | | | |
| >>>Priority Queue ID | М | | 9.2.1.49C | Shall only refer to a Priority Queue already existing in the old configuration. | - | |
| MAC-hs Reordering Buffer Size for RLC-UM | 0 | | 9.2.1.38Ab | | _ | |
| CQI Feedback Cycle k | 0 | | 9.2.2.21B | For FDD only | _ | |
| CQI Repetition Factor | 0 | | 9.2.2.4Cb | For FDD only | _ | |
| ACK-NACK Repetition Factor | 0 | | 9.2.2.a | For FDD only | | |
| CQI Power Offset | 0 | | 9.2.2.4Ca | For FDD only | _ | |
| ACK Power Offset | 0 | | 9.2.2.b | For FDD only | | |
| NACK Power Offset | 0 | | 9.2.2.23a | For FDD only | _ | |
| HS-SCCH Power Offset | 0 | | 9.2.2.181 | For FDD only | _ | |
| Measurement Power Offset | 0 | | 9.2.2.21C | For FDD only | | |
| HS-SCCH Code Change Grant | 0 | | 9.2.1.31L | | _ | |
| TDD ACK NACK Power | 0 | | 9.2.3.18F | For TDD only | _ | |
| | | | | - 1 | | |

| Offset | | | | | | |
|--|---|----|--|---|-----|--------|
| HARQ Preamble Mode | 0 | | 9.2.2.18a | For FDD only | YES | ignore |
| HS-SICH SIR Target | 0 | | UL SIR 9.2.1.67A | Applicable to 1.28Mcps TDD only | YES | ignore |
| UE Capabilities Information | | 01 | | | YES | ignore |
| >HS-DSCH Physical Layer Category | М | | 9.2.1.31la | | _ | |
| >1.28 Mcps TDD Uplink Physical Channel Capability | 0 | | 9.2.3.5Gc | Applicable to 1.28Mcps TDD only | YES | ignore |
| >Number of Supported Carriers | 0 | | ENUMERA TED (One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier,) | Applicable to 1.28Mcps TDD only This IE indicates the number of carrier(s) the UE can support at the same time, where 'x-y carrier' means x for the uplink, and y for the downlink. | YES | reject |
| >Multi-carrier HS-DSCH Physical Layer Category | 0 | | 9.2.1.31la | Applicable to 1.28Mcps TDD only | YES | ignore |
| >MIMO SF Mode Supported For HS-PDSCH dual stream | 0 | | Enumerated (SF1, SF1/SF16) | Applicable to 1.28Mcps TDD only | YES | ignore |
| >UE TS0 Capability LCR | 0 | | 9.2.3.110 | Applicable to 1.28Mcps TDD only. | YES | ignore |
| HS-SICH TPC step size | 0 | | 9.2.3.21a | Applicable to 1.28Mcps TDD only | YES | ignore |
| HS-PDSCH Code Change Grant | 0 | | 9.2.1.31N | For FDD only | YES | ignore |
| MIMO Mode Indicator | 0 | | 9.2.1.120 | For FDD and 1.28Mcps TDD only | YES | reject |
| HS-DSCH MAC-d PDU Size Format | 0 | | 9.2.1.31ID | | YES | reject |
| Sixtyfour QAM Usage Allowed Indicator | 0 | | 9.2.2.74A | For FDD only | YES | ignore |
| Enhanced HS Serving CC Abort | 0 | | ENUMERA TED (Abort Enhanced HS Serving CC,) | For FDD only | YES | reject |
| UE Support Indicator Extension | 0 | | 9.2.2.117 | | YES | ignore |
| Single Stream MIMO Mode Indicator | 0 | | 9.2.2.123 | For FDD only | YES | reject |

| Range Bound | Explanation |
|-----------------------|--|
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows |
| maxnoofPrioQueues | Maximum number of Priority Queues |
| maxnoofMACdPDUindexes | Maximum number of different MAC-d PDU SIDs |

9.2.1.31HA HS-DSCH Information To Modify Unsynchronised

The *HS-DSCH Information To Modify Unsynchronised* IE is used for modification of HS-DSCH information in a Node B Communication Context with the Unsynchronised Radio Link Reconfiguration procedure.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|--|---|-------------|-------------------------|
| HS-DSCH MAC-d Flow Specific Information | | 0 <maxno ofMACdFl ows></maxno | | | - | |
| >HS-DSCH MAC-d Flow ID | M | | 9.2.1.311 | | _ | |
| >Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >Transport Bearer Request Indicator | M | | 9.2.1.62A | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | _ | |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| Priority Queue Information | | 0 <maxno ofPrioQue ues></maxno | | | _ | |
| >Priority Queue ID | М | | 9.2.1.49C | | _ | |
| >Scheduling Priority Indicator | 0 | | 9.2.1.53H | | _ | |
| >Discard Timer | 0 | | 9.2.1.24E | | _ | |
| >MAC-hs Guaranteed Bit Rate | 0 | | 9.2.1.38Aa | | - | |
| CQI Power Offset | 0 | | 9.2.2.4Ca | For FDD only | _ | |
| ACK Power Offset | 0 | | 9.2.2.b | For FDD only | _ | |
| NACK Power Offset | 0 | | 9.2.2.23a | For FDD only | _ | |
| HS-SCCH Power Offset | 0 | | 9.2.2.181 | For FDD only | _ | |
| TDD ACK NACK Power Offset | 0 | | 9.2.3.18F | For TDD only | _ | |
| HARQ Preamble Mode | 0 | | 9.2.2.18a | For FDD only | YES | ignore |
| HS-SICH SIR Target | 0 | | UL SIR 9.2.1.67A | Applicable to 1.28Mcps TDD only | YES | ignore |
| UE Capabilities Information | | 01 | | | YES | ignore |
| >HS-DSCH Physical Layer Category | М | | 9.2.1.31la | | YES | ignore |
| >1.28 Mcps TDD Uplink Physical Channel Capability | 0 | | 9.2.3.5Gc | Applicable to 1.28Mcps TDD only | YES | ignore |
| >Number of Supported Carriers | 0 | | ENUMERA TED (One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier,) | Applicable to 1.28Mcps TDD only This IE indicates the number of carrier(s) the UE can support at the same time, where 'x-y carrier' means x for the uplink, and y for the downlink. | YES | reject |
| >Multi-carrier HS-DSCH Physical Layer Category | 0 | | 9.2.1.31la | Applicable to 1.28Mcps TDD | YES | ignore |

| | | | only | | |
|--|---|---|---------------------------------------|-----|--------|
| >MIMO SF Mode Supported For HS-PDSCH dual stream | 0 | Enumerated (SF1, SF1/SF16) | Applicable to 1.28Mcps TDD only | YES | ignore |
| >UE TS0 Capability LCR | 0 | 9.2.3.110 | Applicable to 1.28Mcps TDD only. | YES | ignore |
| HS-SICH TPC step size | 0 | 9.2.3.21a | Applicable to 1.28Mcps TDD only | YES | ignore |
| MIMO Mode Indicator | 0 | 9.2.1.118 | For FDD and 1.28Mcps TDD only | YES | reject |
| Sixtyfour QAM Usage Allowed Indicator | 0 | 9.2.2.74A | For FDD only | YES | ignore |
| Enhanced HS Serving CC Abort | 0 | ENUMERA TED (Abort Enhanced HS Serving CC,) | For FDD only | YES | reject |
| UE Support Indicator Extension | 0 | 9.2.2.117 | | YES | ignore |
| Single Stream MIMO Mode Indicator | 0 | 9.2.2.123 | For FDD only | YES | reject |

| Range Bound | Explanation |
|-------------------|---------------------------------------|
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows |
| maxnoofPrioQueues | Maximum number of Priority Queues |

9.2.1.31Ha HS-DSCH Initial Capacity Allocation

The *HS-DSCH Initial Capacity Allocation* IE provides flow control information for each scheduling priority class for the HS-DSCH FP over Iub.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------------|----------|---|---------------------------------------|--|-------------|----------------------|
| HS-DSCH Initial Capacity Allocation | | 1 <max noofPrio Queues ></max | | | _ | |
| >Scheduling Priority Indicator | М | | 9.2.1.53H | | _ | |
| >Maximum MAC-d PDU Size | М | | MAC-d PDU Size 9.2.1.38A | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | - | |
| >HS-DSCH Initial Window Size | М | | 9.2.1.31Hb | | _ | |
| >Maximum MAC-d PDU Size Extended | 0 | | MAC PDU Size Extended 9.2.1.38C | | YES | ignore |

| Range Bound | Explanation |
|-------------------|-----------------------------------|
| maxnoofPrioQueues | Maximum number of Priority Queues |

9.2.1.31Hb HS-DSCH Initial Window Size

Indicates the initial number of MAC-d PDUs (or octets in case *HS-DSCH MAC-d PDU Size Format* = "Flexible MAC-d PDU Size") that may be transmitted before new credits are received from the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|---|
| HS-DSCH Initial Window Size | | | INTEGER (1255) | Number of MAC-d PDUs If HS-DSCH MAC-d PDU Size Format = "Flexible MAC-d PDU Size" the credit shall be determined in octets: credit (in octets) = Maximum MAC-d PDU Size Extended* HS-DSCH Initial Window Size |

9.2.1.31I HS-DSCH MAC-d Flow ID

HS-DSCH MAC-d Flow ID is the unique identifier for one MAC-d flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--------------------------|-----------------------|
| HS-DSCH MAC-d Flow ID | | | INTEGER (07) | |

9.2.1.31IA HS-DSCH MAC-d Flows Information

The *HS-DSCH MAC-d Flows Information* IE is used for the establishment of HS-DSCH MAC-d flows for a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|----------------------|----------|--|-----------------------------|--------------------------|-------------|-------------------------|
| HS-DSCH MAC-d Flow | | 1 <maxno< th=""><th></th><th></th><th>_</th><th></th></maxno<> | | | _ | |
| Specific Information | | ofMACdFl | | | | |
| | | ows> | | | | |

| >HS-DSCH MAC-d Flow ID >Allocation/Retention Priority >Binding ID O >Transport Layer Address O >TNL QoS O Priority Queue Information >Priority Queue ID >Associated HS-DSCH MAC-d Flow MAC-d Flow >Scheduling Priority Indicator >T1 >Discard Timer >MAC-hs Window Size >MAC-hs Guaranteed Bit Rate >MAC-d PDU Size Index | 1 <maxno ofPrioQue ues></maxno | 9.2.1.31I 9.2.1.1A 9.2.1.4 9.2.1.63 9.2.1.58A 9.2.1.58A 9.2.1.49C HS-DSCH MAC-d Flow ID 9.2.1.31I | Shall be ignored if bearer establishment with ALCAP. The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | YES | ignore |
|--|--|---|--|-------------|--------|
| Priority >Binding ID O >Transport Layer Address O >TNL QoS O Priority Queue Information >Priority Queue ID >Associated HS-DSCH MAC-d Flow MAC-d Flow MIndicator >T1 >Discard Timer >MAC-hs Window Size MAC-hs Guaranteed Bit Rate | ofPrioQue | 9.2.1.63 9.2.1.58A 9.2.1.49C HS-DSCH MAC-d Flow ID | ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | - | ignore |
| >Binding ID O >Transport Layer Address O >TNL QoS O Priority Queue Information >Priority Queue ID M >Associated HS-DSCH M MAC-d Flow M >Scheduling Priority Indicator >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit Rate | ofPrioQue | 9.2.1.63 9.2.1.58A 9.2.1.49C HS-DSCH MAC-d Flow ID | ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | - | ignore |
| >TNL QoS O Priority Queue Information >Priority Queue ID M >Associated HS-DSCH MMAC-d Flow MAC-d Flow Scheduling Priority Indicator >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit Rate | ofPrioQue | 9.2.1.58A 9.2.1.49C HS-DSCH MAC-d Flow ID | ignored if bearer establishment with ALCAP. Shall be ignored if bearer establishment with ALCAP. The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | - | ignore |
| Priority Queue Information >Priority Queue ID M >Associated HS-DSCH M MAC-d Flow >Scheduling Priority Indicator >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit Rate | ofPrioQue | 9.2.1.49C HS-DSCH MAC-d Flow ID | ignored if bearer establishment with ALCAP. The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | - | ignore |
| >Priority Queue ID M >Associated HS-DSCH M MAC-d Flow >Scheduling Priority Indicator >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit Rate | ofPrioQue | 9.2.1.49C HS-DSCH MAC-d Flow ID | MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | - - - | |
| >Associated HS-DSCH MMAC-d Flow >Scheduling Priority MIndicator >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit Rate | | HS-DSCH MAC-d Flow ID | MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | - | |
| >Associated HS-DSCH MMAC-d Flow >Scheduling Priority MIndicator >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit Rate | | HS-DSCH MAC-d Flow ID | MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with | _ | |
| Indicator >T1 | | 0.04.5011 | the same HS- DSCH MAC-d Flow ID. | | |
| >T1 M >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit O Rate | | 9.2.1.53H | | _ | |
| >Discard Timer O >MAC-hs Window Size M >MAC-hs Guaranteed Bit O Rate | | 9.2.1.56a | | _ | |
| >MAC-hs Guaranteed Bit O Rate | | 9.2.1.24E | | _ | |
| >MAC-hs Guaranteed Bit O Rate | | 9.2.1.38B | | _ | |
| | | 9.2.1.38Aa | | _ | |
| | 1 <maxno ofMACdP DUindexes</maxno | | | _ | |
| >>SID M | | 9.2.1.531 | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | _ | |
| >>MAC-d PDU Size M | | 9.2.1.38A | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | - | |
| >RLC Mode M | | 9.2.1.52B | | _ | |
| >Maximum MAC-d PDU O Size Extended | | MAC PDU Size Extended 9.2.1.38C | | YES | reject |
| >DL RLC PDU Size Format O >UE Aggregate Maximum O | | 9.2.1.122 | 1 | YES | ignore |

| Bit Rate Enforcement | | | |
|----------------------|--|--|--|
| Indicator | | | |

| Range Bound | Explanation |
|-----------------------|--|
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows |
| maxnoofPrioQueues | Maximum number of Priority Queues |
| maxnoofMACdPDUindexes | Maximum number of different MAC-d PDU SIDs |

9.2.1.31IB HS-DSCH MAC-d Flows To Delete

The *HS-DSCH MAC-d Flows To Delete* IE is used for the removal of HS-DSCH MAC-d flows from a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|---|--------------------------|-----------------------|
| HS-DSCH MAC-d Flows To Delete | | 1 <maxno ofMACdFl ows></maxno | | |
| >HS-DSCH MAC-d Flow ID | М | | 9.2.1.311 | |

| Range Bound | Explanation |
|------------------|---------------------------------------|
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows |

9.2.1.31IC HS-DSCH MAC-d PDU Size Capability

This parameter defines the capability for a Local Cell to support different MAC-d PDU Size formats. If this IE is set to "Flexible Size Capable" the Local Cell is "Indexed Size Capable" and "Flexible Size Capable". If this IE has not been configured or has been set to "Indexed Size Capable" the Local Cell is only "Indexed Size Capable".

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|------------------------|----------|-------|---------------|-----------------------|
| | | | Reference | |
| HS-DSCH MAC-d PDU Size | | | ENUMERAT | |
| Capability | | | ED (Indexed | |
| | | | Size | |
| | | | Capable, | |
| | | | Flexible Size | |
| | | | Capable) | |

9.2.1.31ID HS-DSCH MAC-d PDU Size Format

The *HS-DSCH MAC-d PDU Size Format* IE provides information about the type of MAC-d PDU Size Format used for HS-DSCH. "Indexed MAC-d PDU Size" uses MAC-d PDU sizes based on *SID* IE and *MAC-d PDU Size* IE of *MAC-d PDU Size Index* IE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by *Maximum MAC-d PDU Size Extended* IE of *Priority Queue Information* IE. The actual MAC-d PDU size is determined as specified in TS 25.435 [24] and 3GPP TS 25.321 [32].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| HS-DSCH MAC-d PDU Size | | | ENUMERATED | |
| Format | | | (Indexed MAC-d | |
| | | | PDU Size, Flexible | |
| | | | MAC-d PDU Size) | |

9.2.1.31la HS-DSCH Physical Layer Category

The *HS-DSCH Physical Layer Category* IE defines a set of UE radio access capabilities related to HSDPA, as defined in TS 25.306 [33].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--------------------------|-----------------------|
| HS-DSCH Physical Layer Category | | | INTEGER (164,) | |

9.2.1.31laa HS-DSCH Provided Bit Rate Value

The *HS-DSCH Provided Bit Rate Value* IE indicates the HS-DSCH Provided Bit Rate as defined in 3GPP TS 25.321 [32].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|---|---|
| HS-DSCH Provided Bit Rate Value | | | INTEGER (02^24-1,, 2^24256,000,000) | Expressed in bit/s for FDD, 1.28Mcps TDD and 3.84Mcps TDD. For 7.68Mcps TDD the value shall be doubled to give the value in bit/s. |

9.2.1.31lb HS-DSCH Provided Bit Rate Value Information

The HS-DSCH Provided Bit Rate Value Information IE reports the HS-DSCH Provided Bit Rate Value IE for each priority class.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------------------|----------|---|-------------|-----------------------|
| | | | Reference | |
| HS-DSCH Provided Bit Rate | | 1 <maxno< th=""><th></th><th></th></maxno<> | | |
| Value Information | | ofPriorityCl | | |
| | | asses> | | |
| >Scheduling Priority Indicator | M | | 9.2.1.53H | |
| >HS-DSCH Provided Bit | M | | 9.2.1.31laa | |
| Rate Value | | | | |

| Range Bound | Explanation |
|------------------------|---|
| maxNoofPriorityClasses | Maximum number of HS-DSCH Scheduling Priorities |

9.2.1.31lba HS-DSCH Required Power Value

The *HS-DSCH Required Power Value* IE indicates the minimum necessary power for a given priority class to meet the Guaranteed Bit Rate for all the established HS-DSCH connections belonging to this priority class.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------------|
| HS-DSCH Required Power | | | INTEGER (01000) | Expressed in thousandths of |
| Value | | | | the max transmission power |

9.2.1.31Ic HS-DSCH Required Power Value Information

The *HS-DSCH Required Power Value Information* IE reports the *HS-DSCH Required Power Value* IE for each priority class. For each priority class, a list of UEs, identified by the *CRNC Communication Context* IEs, requiring a particularly high amount of power to meet the Guaranteed Bit Rate for their established HS-DSCH connections may be included. Additionally, the *HS-DSCH Required Power Per UE Weight* IE may be included for each of those UEs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|--|--------------------------|--|
| HS-DSCH Required Power Value Information | | 1 <maxno ofPriorityCl asses></maxno | | |
| >Scheduling Priority Indicator | M | | 9.2.1.53H | |
| >HS-DSCH Required Power Value | М | | 9.2.1.31lba | |
| >HS-DSCH Required Power Per UE Information | | 0 <maxno ofContexts onUeList></maxno | | List of UEs with Guaranteed Bit Rate indicating their required power consumption relative to the HS-DSCH Required Power Value. |
| >>CRNC Communication Context ID | М | | 9.2.1.18 | The reserved value "All CRNCCC" shall not be used. |
| >>HS-DSCH Required Power Per UE Weight | 0 | | INTEGER (0100) | Expressed in percentage of the value provided in the HS-DSCH Required Power Value IE |

| Range Bound | Explanation |
|-------------------------|--|
| maxNoofContextsonUeList | Maximum number of Communication Contexts to include in the list of UEs |
| maxNoofPriorityClasses | Maximum number of HS-DSCH Scheduling Priorities |

9.2.1.31J HS-DSCH RNTI

The HS-DSCH RNTI is used for the UE-specific CRC in HS-SCCH and HS-DSCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| HS-DSCH RNTI | | | INTEGER (065535) | |

9.2.1.31K HS-SCCH Code Change Indicator

The HS-SCCH Code Change Indicator indicates whether the HS-SCCH Code change is needed or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| HS-SCCH Code Change | | | ENUMERATED (HS- | |
| Indicator | | | SCCH Code Change | |
| | | | needed) | |

9.2.1.31L HS-SCCH Code Change Grant

The HS-SCCH Code Change Grant IE indicates that modification of HS-SCCH Codes is granted.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|-----------------------------|-----------------------|
| HS-SCCH Code Change Grant | | | ENUMERATED (Change Granted) | |

9.2.1.31M HS-PDSCH Code Change Indicator [FDD]

The HS-PDSCH Code Change Indicator indicates whether the HS-PDSCH Code change is needed or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| HS-PDSCH Code Change | | | ENUMERATED (HS- | |
| Indicator | | | PDSCH Code | |
| | | | Change needed) | |

9.2.1.31N HS-PDSCH Code Change Grant [FDD]

The HS-PDSCH Code Change Grant IE indicates that modification of HS-PDSCH Codes is granted.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| HS-PDSCH Code Change | | | ENUMERATED | |
| Grant | | | (Change Granted) | |

9.2.1.32 IB_SG_DATA

Segment as defined in ref. TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------|----------|-------|-------------|--|
| | | | Reference | |
| IB_SG_DATA | | | BIT STRING | Contains "SIB data fixed" or "SIB data variable" in segment as encoded in ref. TS 25.331 [18]. See Annex D |

9.2.1.33 IB_SG_POS

The lowest position of a specific Information Block segment in the SFN cycle (IB_SG_POS < IB_SG_REP).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|--|
| IB_SG_POS | | | INTEGER (04094) | Only even positions are allowed. See ref. TS 25.331 [18] |

9.2.1.34 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod $IB_SG_REP = IB_SG_POS$.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|---|--|
| IB_SG_REP | | | ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096) | Repetition period for the IB segment in frames |

9.2.1.35 IB Type

The IB Type identifies a specific system information block.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--|-----------------------|
| IB Type | | | ENUMERATED (MIB, SB1, SB2, SIB1, SIB2, SIB3, SIB4, SIB5, SIB6, SIB7, not-Used-SIB8, not-Used-SIB9, not-Used-SIB10, SIB11, SIB12, SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4, SIB15.5, SIB15.1, SIB15.1, SIB15.2, SIB15.3, SIB16, | |
| | | | SIB17, SIB15.4, SIB15.5, SIB5bis, SIB15bis, SIB15bis, SIB15bis, SIB15.1bis, SIB15.2bis, SIB15.3bis, SIB15.3bis, SIB15.6, SIB15.7, SIB15.8, SIB15.2ter, SIB19) | |

9.2.1.36 Indication Type

Void.

9.2.1.36A Information Exchange Object Type

Void.

9.2.1.36B Information Report Characteristics

The information report characteristics defines how the reporting shall be performed.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|---|
| CHOICE Information Report Characteristics Type | М | | | |
| >On Demand >Periodic | | | NULL | |
| >>CHOICE Information Report Periodicity Scale | М | | | The frequency with which the Node B shall send information reports. |
| >>>minute | | | | |
| >>>Report Periodicity Value | М | | INTEGER (160,) | Unit: min |
| >>>hour | | | | |
| >>>Report Periodicity Value | М | | INTEGER (124,) | Unit: h |
| >On Modification | | | | |
| >>Information Threshold | 0 | • | 9.2.1.36E | |

9.2.1.36C Information Exchange ID

The Information Exchange ID uniquely identifies any requested information per Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Information Exchange ID | М | | INTEGER (02^20-1) | |

9.2.1.36D Information Type

The Information Type indicates which kind of information the Node B shall provide.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------------------------------------|---|---|-------------|----------------------|
| Information Type Item | М | | ENUMERATE D (GPS Information, DGPS Corrections, GPS RX Pos, | | _ | |
| | | | GANSS Information, DGANSS Corrections, GANSS RX Pos) | | | |
| GPS Information | C-GPS | 0 <maxno GPSItems></maxno | | | _ | |
| >GPS Information Item | | | ENUMERATE D (GPS Navigation Model & Time Recovery, GPS Ionospheric Model, GPS UTC Model, GPS Almanac, GPS Real- Time Integrity,) | | | |
| GANSS Information | C-GANSS | 1 | , | | YES | ignore |
| >GANSS Common Data | | 01 | | | _ | |
| >>Ionospheric Model | 0 | | BOOLEAN | True means requested | _ | |
| >>Additional Ionospheric Model | 0 | | Additional lonospheric Model Request 9.2.1.107d | Presence means requested. | YES | ignore |
| >>Earth Orientation Parameters | 0 | | Earth Orientation Parameters Request 9.2.1.107e | | YES | ignore |
| >GANSS Generic Data | | 0 <maxno GANSS></maxno | | | _ | |
| >>GANSS ID | 0 | | 9.2.1.104 | | _ | |
| >>GANSS Navigation Model And Time Recovery | 0 | | BOOLEAN | True means requested | - | |
| >>GANSS Time Model GNSS- GNSS | 0 | | BIT STRING(9) | Defines the time model required. Bit 1 is the MSB and bit 9 is the LSB (see section 9.2.0). Bit 1:GPS, Bit 2:Galileo, Bit 3:QZSS, | _ | |

| | | | | Bit 4:GLONASS | | |
|--|---------------------------------|-----------------------------------|---|---|-----|--------|
| | | | | Other bits are reserved. | | |
| >>GANSS UTC Model | 0 | | BOOLEAN | True means requested | - | |
| >>GANSS Almanac | 0 | | BOOLEAN | True means requested | - | |
| >>GANSS Real Time Integrity | 0 | | BOOLEAN | True means requested | - | |
| >>GANSS Data Bit Assistance | | 01 | | | _ | |
| >>>GANSS TOD | М | | INTEGER (086399) | The GANSS Time Of Day for which the data bits are requested | - | |
| >>>Data Bit Assistance | | 1 | | | _ | |
| >>>DGANSS Signal ID | М | | BIT STRING(8) | Defined in TS 25.331 [18] | - | |
| >>>>GANSS Data Bit Interval | М | | INTEGER (015) | Defined in TS 25.331 [18] | _ | |
| >>>Satellite Information | | 0 <maxga NSSSat></maxga | | | _ | |
| >>>Sat ID | M | | INTEGER(06 3) | Identifies the satellite and is equal to (SV ID No - 1) | - | |
| >>GANSS Additional Navigation Models And Time Recovery | 0 | | GANSS Additional Navigation Models And Time Recovery Request 9.2.1.107f | | YES | ignore |
| >>GANSS Additional UTC Models | 0 | | GANSS Additional UTC Models Request 9.2.1.107g | | YES | ignore |
| >>GANSS Auxiliary Information | 0 | | GANSS Auxiliary Information Request 9.2.1.107h | | YES | ignore |
| >>SBAS ID | C-GANSS- ID | | 9.2.1.107b | | YES | ignore |
| DGANSS Corrections Req | C- DGANSS Correction s | 1 | | | YES | ignore |
| >DGANSS Signal ID | M | | BIT STRING(8) | Defined in TS 25.331 [18] | _ | |
| >GANSS ID | 0 | | 9.2.1.104 | | - | |

| Condition | Explanation |
|-------------------|---|
| DGANSSCorrections | The IE shall be present if the Information Type Item IE indicates |
| | "DGANSS Corrections". |
| GPS | The IE shall be present if the <i>Information Type Item</i> IE indicates "GPS |
| | Information". |
| GANSS | The IE shall be present if the Information Type Item IE indicates |
| | "GANSS Information". |
| GANSS-ID | This IE shall be present if the GANSS ID IE indicates 'SBAS'. |

| Range Bound | Explanation |
|---------------|---|
| maxGANSSSat | Maximum number of satellites for which data is included in the IE |
| maxNoGPSItems | Maximum number of GPS Information Items supported in one |
| | Information Exchange |
| maxNoGANSS | Maximum number of GANSS Systems |

9.2.1.36E Information Threshold

The Information Threshold indicates which kind of information shall trigger the Information Reporting procedure.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|---------------------------|--|
| CHOICE Information Type | M | | | |
| Item | | | | |
| >DGPS | | | | |
| >>PRC Deviation | M | | ENUMERATED (1, 2, 5, 10,) | PRC deviation in meters from the previously reported value, which shall trigger a report |
| >DGANSS | | | | |
| >>PRC Deviation | M | | ENUMERATED (1, 2, 5, 10,) | PRC deviation in meters from the previously reported value, which shall trigger a report |

9.2.1.36F IPDL Indicator

Indicates if IPDL periods shall be active or not.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------|----------|-------|--------------|-----------------------|
| | | | Reference | |
| IPDL Indicator | | | ENUMERATED (| |
| | | | active, | |
| | | | inactive) | |

9.2.1.37 Limited Power Increase

Void.

9.2.1.37A Local Cell Group ID

The Local Cell Group ID represents resources in the Node B, which have been pooled from a capacity point of view.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|---------------------------|-----------------------|
| Local Cell Group ID | | | Local Cell ID 9.2.1.38 | |

9.2.1.38 Local Cell ID

The local cell ID represents resources in the Node B that can be used for the configuration of a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Local Cell ID | | | INTEGER | |
| | | | (0268435455) | |

9.2.1.38A MAC-d PDU Size

The MAC-d PDU Size provides the size in bits of the MAC-d PDU.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------|---|
| MAC-d PDU Size | | | INTEGER (15000,) | In case of E-DCH, value 8 and values not multiple of 8 shall not be used. |

9.2.1.38Aa MAC-hs Guaranteed Bit Rate

The MAC-hs Guaranteed Bit Rate IE indicates the guaranteed number of bits per second that Node B should deliver over the air interface under normal operating conditions (provided there is data to deliver). If the MAC-hs Guaranteed Bit Rate IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| MAC-hs Guaranteed Bit Rate | | | INTEGER (02^24-1,, | Unit: bit/s |
| | | | 2^24256,000,000) | |

9.2.1.38Ab MAC-hs Reordering Buffer Size for RLC-UM

The *MAC-hs Reordering Buffer Size for RLC-UM* IE indicates the portion of the buffer in the UE that can be used for RLC-UM traffic (i.e. for Priority Queues whose *RLC Mode* IE is set to "RLC-UM").

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|--------------------------|--|
| MAC-hs Reordering Buffer Size | | | INTEGER (0300,) | Unit: kBytes And N kBytes = N*1024 Bytes. The Node B shall use this value to avoid the overflow of the MAC-hs reordering buffer. |

9.2.1.38Ac MAC-hs Reset Indicator

The MAC-hs Reset Indicator IE indicates that a reset of the MAC-hs is not required.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| MAC-hs Reset Indicator | | | ENUMERATED | |
| | | | (MAC-hs | |
| | | | Not Reset) | |

9.2.1.38B MAC-hs Window Size

The MAC-hs Window Size IE is used for MAC-hs/MAC-ehs PDU retransmission as defined in 3GPP TS 25.321 [32]. [FDD - the values 64 and 128 is only allowed when the MAC header type is MAC-ehs and under conditions defined in 3GPP TS 25.321 [32].]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--|---|
| MAC-hs Window Size | | | ENUMERATED (4, 6, 8, 12, 16, 24, 32,, 64, 128) | For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,) |

9.2.1.38C MAC PDU Size Extended

The MAC PDU Size Extended IE provides the size in octets of the MAC level PDU when an extended MAC level PDU size is required.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--------------------------|---|
| MAC PDU Size Extended | | | INTEGER (11504,,1505) | In case of E-DCH, value 1 shall not be used |

9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell or a Power Local Cell Group within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the maximum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| Maximum DL Power Capability | | | INTEGER (0500) | Unit: dBm |
| | | | | Range: 050 dBm |
| | | | | Step: 0.1 dB |

9.2.1.40 Maximum Transmission Power

The Maximum Transmission Power is the maximum value for the linear sum of the power of all downlink physical channels, that is allowed to be used in a cell. If Transmit Diversity is applied to one downlink physical channel, the power to be considered for this downlink physical channel is the linear sum of the power used for this downlink physical channel on all branches. [1.28Mcps TDD - For a multi-frequency cell, the Maximum Transmission Power is the maximum value for the linear sum of the power of all downlink physical channels, that is allowed to be used on one frequency in a cell.] The reference point is the antenna connector.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Maximum Transmission Power | | | INTEGER (0500) | Unit: dBm |
| | | | | Range: 050 |
| | | | | Step: 0.1 dB |

9.2.1.40A Measurement Availability Indicator

Void.

9.2.1.40B Measurement Change Time

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--------------------------|--|
| CHOICE Time Scale | M | | | |
| >millisecond | | | | |
| >>Measurement Change Time Value | М | | INTEGER (16000,) | Unit: ms Range: 1060000 ms Step: 10 ms |

9.2.1.41 Measurement Filter Coefficient

The Measurement Filter Coefficient determines the amount of filtering to be applied for measurements.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-------|--|-----------------------|
| Measurement Filter Coefficient | | | ENUMERATED (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19,) | |

9.2.1.41A Measurement Hysteresis Time

The Measurement Hysteresis Time provides the duration during which a reporting criterion has to be fulfilled for the Measurement Reporting procedure to be triggered.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|--|
| CHOICE Time Scale | M | | | |
| >millisecond | | | | |
| >>Measurement Hysteresis Time Value | M | | INTEGER (16000,) | Unit: ms Range: 1060000 ms Step: 10 ms |

9.2.1.42 Measurement ID

The Measurement ID uniquely identifies any measurement per (Node B or Communication) Control Port.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------|-----------------------|
| Measurement ID | | | INTEGER | |
| | | | (02^20-1) | |

9.2.1.43 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------|---|-------------|----------------------|
| CHOICE Measurement Increase/Decrease Threshold | М | | | | _ | |
| >Received Total Wide Band Power | | | | | | |
| >>Received Total Wide Band Power | М | | INTEGER (0620) | Unit: dB Range: 062 dB Step: 0.1 dB | - | |
| >Transmitted Carrier Power | | | | | | |
| >>Transmitted Carrier Power | М | | INTEGER (0100) | According to mapping in TS 25.133 [22] and TS 25.123 [23] | - | |
| >Acknowledged PRACH Preambles | | | | FDD only | | |
| >>Acknowledged PRACH Preambles | М | | INTEGER (0240,) | According to mapping in TS 25.133 [22] | _ | |
| >UL Timeslot ISCP | | | , , | TDD only | | |
| >>UL Timeslot ISCP | М | | INTEGER (0126) | Unit: dB Range: 063 dB Step: 0.5 dB | _ | |
| >SIR | | | | | | |
| >>SIR | М | | INTEGER (062) | Unit: dB Range: 031 dB Step: 0.5 dB | _ | |
| >SIR Error | | | | FDD only | | |
| >>SIR Error | М | | INTEGER (0124) | Unit: dB Range: 062 dB Step: 0.5 dB | _ | |
| >Transmitted Code Power | | | | | | |
| >>Transmitted Code Power | M | | INTEGER (0112,) | Unit: dB Range: 056 dB Step: 0.5 dB | _ | |
| >RSCP | | | | TDD only | | |
| >>RSCP | М | | INTEGER (0126) | Unit: dB Range: 063 dB Step: 0.5 dB | - | |
| >Round Trip Time | | | | FDD only | | |
| >>Round Trip Time | М | | INTEGER (032766) | Unit: chips Range: 0 2047.875 chips Step: 0.625 chips | - | |
| >Not Used 1 | | | NULL | This choice shall not be used. Reject procedure if received. | | |
| >Not Used 2 | | | NULL | This choice shall not be used. Reject procedure if received. | | |
| >Additional Measurement Thresholds | | | | See Note 1. | | |
| >>Transmitted Carrier Power Of All Codes Not Used For HSTransmission | | | | | | |
| >>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission | М | | INTEGER (0100) | According to mapping in TS 25.133 [22], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, | YES | reject |

| | 1 | | | | |
|---|---|--------------------|---|-----|--------|
| >>Transmitted Carrier Power For Cell Portion | | | E-AGCH, E-RGCH or E-HICHTransmission" and mapping in TS 25.123 [23], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission" FDD and 1.28Mcps TDD only | | |
| >>>Transmitted Carrier Power For Cell Portion | M | INTEGER (0100) | Mapping identical to the one for Transmitted Carrier Power measurement in TS 25.133 [22] and TS 25.123 [23] | YES | reject |
| >>Received Total Wide Band Power For Cell Portion | | | FDD and 1.28Mcps TDD only | | |
| >>>Received Total Wide Band Power For Cell Portion | M | INTEGER (0620) | Unit: dB Range: 062 dB Step: 0.1 dB | YES | reject |
| >>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, E-RGCH or E-HICH Transmission For Cell Portion | | | FDD only | | |
| >>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- HICH Transmission For Cell Portion | M | INTEGER (0100) | Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission measurement in TS 25.133 [22] | YES | reject |
| >>UpPCH interference | | | 1.28Mcps TDD Only | | |
| >>>UpPCH interference Value >>Received | М | INTEGER (0127,) | According to mapping in TS 25.123 [23] FDD only | YES | reject |
| Scheduled E- DCH Power Share | | | ŕ | | |
| >>>RSEPS value | M | INTEGER (0151) | According to mapping in TS 25.133 [22] | YES | reject |
| >>Received Scheduled E-DCH Power Share For Cell Portion | | | FDD only | | |
| >>>RSEPS value | M | INTEGER (0151) | According to mapping in TS 25.133 [22] | YES | reject |
| >>E-DCH RACH Report | | | FDD only | | |
| >>> Denied E- DCH RACH Resources | М | INTEGER (0240,) | According to mapping in TS 25.302 [25] | YES | reject |
| >> Transmitted Carrier Power Of All | | | 1.28Mcps TDD only | | |

| Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, or E-HICH Transmission For Cell Portion | | | | | |
|---|---|--------------------|--|-----|--------|
| >>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, or E-HICH Transmission For Cell Portion | M | INTEGER (0100) | Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, or E-HICH Transmission measurement in TS 25.123 [23] | YES | reject |
| >> UL Timeslot ISCP For Cell Portion | | | 1.28Mcps TDD only | | |
| >>>UL Timeslot ISCP for Cell Portion | М | INTEGER (0126) | Unit: dB Range: 063 dB Step: 0.5 dB | YES | reject |
| >> UpPCH interference For Cell Portion | | | 1.28Mcps TDD Only | | |
| >>>UpPCH interference Value for Cell Portion | M | INTEGER (0127,) | According to mapping in TS 25.123 [23] | YES | reject |

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

9.2.1.43A Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|-----------------------|-----------------------|
| Measurement Recovery Behavior | | | NULL | |

9.2.1.43B Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|-----------------------|-----------------------|
| Measurement Recovery Reporting Indicator | | | NULL | |

9.2.1.43C Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|-----------------------|-----------------------|
| Measurement Recovery Support Indicator | | | NULL | |

9.2.1.44 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E, F or On Modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------|---|-------------|----------------------|
| CHOICE Measurement Threshold | М | | | | - | |
| >Received Total | | | | | | |
| Wide Band Power | | | | | | |
| >>Received Total | М | | INTEGER | According to mapping | _ | |
| Wide Band Power | | | (0621) | in TS 25.133 [22] and TS 25.123 [23] | | |
| >Transmitted Carrier Power | | | | | | |
| >>Transmitted | М | | INTEGER | According to mapping | _ | |
| Carrier Power | | | (0100) | in TS 25.133 [22] and TS 25.123 [23] | | |
| >Acknowledged PRACH Preambles | | | | FDD only | | |
| >>Acknowledged PRACH Preambles | М | | INTEGER (0240,) | According to mapping in TS 25.133 [22] | - | |
| >UL Timeslot ISCP | | | | TDD only | | |
| >>UL Timeslot | M | | INTEGER | According to mapping | - | |
| ISCP | | | (0127) | in TS 25.123 [23] | | |
| >SIR | | | <u> </u> | ` ' | | |
| >>SIR | М | | INTEGER (063) | According to mapping in TS 25.133 [22] and TS 25.123 [23] | _ | |
| >SIR Error | | | | FDD only | | |
| >>SIR Error | М | | INTEGER (0125) | According to mapping in TS 25.133 [22] | _ | |
| >Transmitted Code Power | | | | | | |
| >>Transmitted Code Power | M | | INTEGER (0127) | According to mapping in TS 25.133 [22] and TS 25.123 [23] | _ | |
| >RSCP | | | | TDD only | | |
| >>RSCP | М | | INTEGER (0127) | According to mapping in TS 25.123 [23] | _ | |
| >Rx Timing Deviation | | | | Applicable to 3.84Mcps TDD only | | |
| >>Rx Timing | M | | INTEGER | According to mapping | _ | |
| Deviation | | | (08191) | in TS 25.123 [23] | | |
| >Round Trip Time | | | | FDD only | | |
| >>Round Trip Time | M | | INTEGER (032767) | According to mapping in TS 25.133 [22] | _ | |
| >Not Used 1 | | | NULL | This choice shall not be used. Reject | | |
| >Not Used 2 | | | NULL | procedure if received. This choice shall not | | |
| | | | | be used. Reject procedure if received. | | |
| >Additional Measurement | | | | See Note 1. | | |
| Thresholds >>UTRAN GPS | | | | | _ | |
| Timing Of Cell Frames For UE | | | | | | |
| Positioning | | | | | | |
| >>>T _{UTRAN-GPS} Measurement Threshold | M | | 9.2.1.64B | | YES | reject |
| Information | | | | | | |
| >>SFN-SFN | | | | | | |
| Observed Time Difference | | | | | | |
| >>>SFN-SFN Measurement Threshold | М | | 9.2.1.53C | | YES | reject |
| Information | | | | | | |

| >>Rx Timing | | | Applicable to | | |
|--|---|-------------------|--|-----|--------|
| Deviation LCR | | | 1.28Mcps TDD Only | | |
| >>>Rx Timing Deviation LCR | M | INTEGER (0511) | According to mapping in TS 25.123 [23] | YES | reject |
| >>HS-SICH Reception Quality | | | Applicable to TDD Only | | |
| >>>HS-SICH | M | INTEGER | According to mapping | YES | reject |
| Reception Quality >>Transmitted Carrier Power Of All Codes Not Used For HSTransmission | | (020) | in TS 25.123 [23] | | |
| >>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission | M | INTEGER (0100) | According to mapping in TS 25.133 [22], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission" and TS 25.123 [23], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission" | YES | reject |
| >>HS-DSCH Required Power | | | | | |
| >>>HS-DSCH Required Power Value | М | 9.2.1.31lba | | YES | reject |
| >>Transmitted Carrier Power For Cell Portion | | | FDD and 1.28Mcps TDD only | | |
| >>>Transmitted Carrier Power For Cell Portion | M | INTEGER (0100) | Mapping identical to the one for Transmitted Carrier Power measurement in TS 25.133 [22] and TS 25.123 [23] | YES | reject |
| >>Received Total Wide Band Power For Cell Portion | | | FDD and 1.28Mcps TDD only | | |
| >>>Received Total Wide Band Power For Cell Portion | M | INTEGER (0621) | Mapping identical to the one for Received Total Wide Band Power measurement in TS 25.133 [22] and TS 25.123 [23] | YES | reject |
| >>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, E-RGCH or E-HICH Transmission For Cell Portion | | | FDD only | | |
| >>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- | M | INTEGER (0100) | Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or | YES | reject |

| | T | | T = = | | ı |
|--------------------|------|-------------|---------------------------|------|----------|
| HICH | | | E-HICH Transmission | | |
| Transmission | | | measurement in TS | | |
| Value For Cell | | | 25.133 [22] | | |
| Portion | | | | | |
| >>UpPCH | | | 1.28Mcps TDD Only | | |
| interference | | | | | |
| >>>UpPCH | M | INTEGER | According to mapping | YES | reject |
| interference Value | | (0127,) | in TS 25.123 [23] | | |
| >>DL Transmission | | | FDD Only | | |
| Branch Load | | | | | |
| >>>DL | M | INTEGER | According to mapping | YES | reject |
| Transmission | | (0101,) | in TS 25.133 [22] | | |
| Branch Load | | | | | |
| Value | | | | | |
| >>HS-DSCH | | | FDD and 1.28Mcps | | |
| Required Power | | | TDD only | | |
| For Cell Portion | | | _ | | |
| >>>HS-DSCH | M | HS-DSCH | | YES | reject |
| Required Power | | Required | | | , |
| Value For Cell | | Power Value | | | |
| Portion | | 9.2.1.31lba | | | |
| >>E-DCH Non- | | | FDD only | | |
| serving Relative | | | | | |
| Grant Down | | | | | |
| Commands | | | | | |
| >>>E-DCH Non- | M | INTEGER | Down Commands per | YES | reject |
| serving Relative | 141 | (0100,) | second | 120 | roject |
| Grant Down | | (0100,) | 3000110 | | |
| Commands Value | | | | | |
| >>Rx Timing | | | Applicable to | | |
| • | | | | | |
| Deviation 768 | M | INTEGER | 7.68Mcps TDD Only | YES | un: n n4 |
| >>>Rx Timing | IVI | | According to mapping | YES | reject |
| Deviation 768 | | (065535) | in TS 25.123 [23] | | |
| >>Rx Timing | | | Applicable to | | |
| Deviation 384 | | | 3.84Mcps TDD Only | | |
| Extended | | | | | |
| >>>Rx Timing | M | INTEGER | According to mapping | YES | reject |
| Deviation 384 | | (032767) | in TS 25.123 [23] | | |
| Extended | | | | | |
| >>Extended Round | | | FDD only | | |
| Trip Time | | | | | |
| >>>Extended | M | INTEGER | Continuation of | YES | reject |
| Round Trip Time | | (3276710304 | intervals with step | | |
| Value | | 1) | size as defined in TS | | |
| | | | 25.133 [22]. | | |
| >>Received | | | FDD only | | |
| Scheduled E- | | | | | |
| DCH Power | | | | | |
| Share | | | | | |
| >>>RSEPS value | M | INTEGER | According to mapping | YES | reject |
| | | (0151) | in TS 25.133 [22] | | |
| >>Received | | , , | FDD only | | |
| Scheduled E- | | | j , , | | |
| DCH Power | | | | | |
| Share for Cell | | | | | |
| Portion | | | | | |
| >>>RSEPS value | M | INTEGER | According to mapping | YES | reject |
| ZZZNOLI O Value | '*' | (0151) | in TS 25.133 [22] | . 20 | 10,000 |
| >>Additional HS- | | (5101) | Applicable to | | |
| SICH Reception | | | 1.28Mcps TDD Only | | |
| Quality | | | 1.20MCp3 TDD Offig | | |
| | l Na | INTEGER | Appendig a to as a series | VEC | pair - 4 |
| >>>HS-SICH | M | INTEGER | According to mapping | YES | reject |
| Reception Quality | | (020) | in TS 25.123 [23] | | |
| LCR | | | used when the | | |
| | | | Measurement | | |
| | | | Threshold Value for | | |
| | | | HS-SICH Reception | | |

| | | | Quality are more than 20, Measurement Threshold Value = 20 + IE Value | | |
|---|---|--------------------|--|-----|--------|
| >>UTRAN GANSS Timing Of Cell Frames For UE Positioning | | | | | |
| >>>T _{UTRAN-GANSS} Measurement Threshold Information | M | 9.2.1.99 | | YES | reject |
| >> E-DCH RACH Report | | | FDD only | | |
| >>> Denied E- DCH RACH Resources | M | INTEGER (0240,) | According to mapping in TS 25.302 [25] | YES | reject |
| >>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, or E-HICH Transmission For Cell Portion | | | 1.28Mcps TDD only | | |
| >>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, or E-HICH Transmission For Cell Portion | М | INTEGER (0100) | Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, or E-HICH Transmission measurement in TS 25.123 [23] | YES | reject |
| >> UL Timeslot ISCP For Cell Portion | | | 1.28Mcps TDD only | | |
| >>>UL Timeslot ISCP for Cell Portion | M | INTEGER (0127) | According to mapping in TS 25.123 [23] | YES | reject |
| >> UpPCH interference For Cell Portion | | | 1.28Mcps TDD Only | | |
| >>>UpPCH interference Value for Cell Portion | M | INTEGER (0127,) | According to mapping in TS 25.123 [23] | YES | reject |

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

9.2.1.45 Message Discriminator

This field is used to discriminate between Dedicated NBAP and Common NBAP messages.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|-----------------------|-----------------------|
| | | | Reference | |
| Message Discriminator | | | ENUMERATED (| |
| | | | Common, | |
| | | | Dedicated) | |

9.2.1.45A Message Structure

The *Message Structure* IE gives information for each level with assigned criticality in an hierarchical message structure from top level down to the lowest level above the reported level for the occurred error (reported in the *Information Element Criticality Diagnostics* IE).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------------------------------------|--------------------------|---|
| Message Structure | | 1 <maxno oflevels></maxno | | The first repetition of the Message Structure IE corresponds to the top level of the message. The last repetition of the Message Structure IE corresponds to the level above the reported level for the occurred error of the message. |
| >IE ID | M | | INTEGER (065535) | The IE ID of this level"s IE containing the not understood or missing IE. |
| >Repetition Number | 0 | | INTEGER (1256) | The Repetition Number IE gives, if applicable, the number of occurrences of this level"s reported IE up to and including the occurrence containing the not understood or missing IE. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them. |

| Range Bound | Explanation |
|---------------|---|
| maxnooflevels | Maximum number of message levels to report. The value for |
| | maxnooflevels is 256. |

9.2.1.46 Message Type

The Message Type uniquely identifies the message being sent.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|------------------------------|---|
| Procedure ID | М | 1 | | |
| Procedure ID >Procedure Code | | _ | | "0" = Audit "1" = Audit Required "2" = Block Resource "3" = Cell Deletion "4" = Cell Reconfiguration "5" = Cell Setup "6" = Common Measurement Failure "7" = Common Measurement Initiation "8" = Common Measurement Report "9" = Common Measurement Termination "10" = Common Measurement Termination "10" = Common Transport Channel Delete "11" = Common Transport Channel Setup "13" = Reset "14" = Common Transport Channel Setup "13" = Reset "14" = Dedicated Measurement Failure "17" = Dedicated Measurement Initiation "18" = Dedicated Measurement Report "19" = Dedicated Measurement Termination "20" = Downlink Power Control "21" = Error Indication (For Dedicated Procedures) "23" = Radio Link Addition "24" = Radio Link Restoration "25" = Radio Link Restoration "27" = Radio Link Restoration "29" = Synchronised Radio Link Reconfiguration Cancellation "30" = Synchronised Radio Link Reconfiguration Commit "31" = Synchronised Radio Link Reconfiguration Preparation "32" = System Information Update "33" = Unblock Resource "34" = Unsynchronised Radio Link Reconfiguration Preparation "35" = Error Indication (For Common Procedures) "37" = Physical Shared Channel Reconfiguration "38" = Downlink Power Timeslot Control "39" = Radio Link Preemption "40" = Information Exchange Failure "41" = Information Exchange Initiation |
| | | | | "26" = Radio Link Restoration "27" = Radio Link Setup "28" = Resource Status Indication |
| | | | | Reconfiguration Cancellation "30" = Synchronised Radio Link Reconfiguration Commit |
| | | | | Reconfiguration Preparation "32" = System Information Update "33" = Unblock Resource |
| | | | | Reconfiguration "35" = Error Indication (For Common |
| | | | | Reconfiguration "38" = Downlink Power Timeslot Control |
| | | | | "40" = Information Exchange Failure |
| | | | | "44" = Cell Synchronisation Adjustment "45" = Cell Synchronisation Initiation "46" = Cell Synchronisation Reconfiguration "47" = Cell Synchronisation Reporting |
| | | | | "48" = Cell Synchronisation Termination "49" = Cell Synchronisation Failure "50" = Bearer Rearrangement "51" = Radio Link Activation |
| | | | | '52' = Radio Link Parameter Update "53" = MBMS Notification Update "54" = UE Status Update |
| | | | | "55" = Secondary UL Frequency Reporting "56" = Secondary UL Frequency Update |
| >Ddmode | M | | ENUMERATED (TDD, FDD, | Common = common to FDD and TDD. |

| | | Common, | |
|-----------------|---|--------------|--|
| | |) | |
| Type of Message | M | ENUMERATED (| |
| | | Initiating | |
| | | Message, | |
| | | Successful | |
| | | Outcome, | |
| | | Unsuccessful | |
| | | Outcome, | |
| | | Outcome) | |

9.2.1.46a MICH CFN

The MICH CFN indicates the Connection Frame Number for the MICH. It corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located, see ref TS 25.211 [7].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| MICH CFN | | | INTEGER (04095) | |

9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|---------------------------------|
| Minimum DL Power Capability | | | INTEGER (0800) | Unit: dBm Range: -30 +50 dBm |
| | | | | Step: 0.1 dB |

9.2.1.47 Minimum Spreading Factor

This parameter indicates the minimum spreading factor supported at a cell within the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--|--|
| Minimum Spreading Factor | | | ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512) | [TDD - Mapping scheme for the minimum spreading factor 1 and 2: '256' means 1 '512' means 2] |

9.2.1.47a Modification Period

The Modification Period of the MICH, see ref. TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|-----------------------|-----------------------|
| Modification Period | | | ENUMERATED | Unit: ms |
| | | | (1280, 2560, 5120, | |
| | | | 10240,) | |

9.2.1.47A N_INSYNC_IND

This parameter is used by the Node B for achievement/re-achievement of UL synchronisation on the Uu interface as defined in ref. TS 25.214 [10] and TS 25.224 [21].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| N_INSYNC_IND | | | INTEGER (1256) | |

9.2.1.47B N OUTSYNC IND

This parameter defines the number of consecutive out-of-sync indications after which the timer T_RLFAILURE shall be started (see also ref. TS 25.214 [10] and TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| N_OUTSYNC_IND | | | INTEGER (1256) | |

9.2.1.47C Neighbouring FDD Cell Measurement Information

This IE provides information on the FDD neighbouring cells used for the purpose of measurements.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|------------------------------------|
| UC-Id | M | | 9.2.1.65B | |
| UARFCN | М | | 9.2.1.65 | Corresponds to Nd (TS 25.104 [14]) |
| Primary Scrambling Code | M | | 9.2.2.34 | |

9.2.1.47D Neighbouring TDD Cell Measurement Information

This IE provides information on the 3.84Mcps TDD neighbouring cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time Slot* IE and *Midamble Shift And Burst Type* IE shall be included if available.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|--------------------------|------------------------------------|
| UC-Id | M | | 9.2.1.65B | |
| UARFCN | М | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]) |
| Cell Parameter ID | М | | 9.2.3.4 | |
| Time Slot | 0 | | 9.2.3.23 | |
| Midamble Shift And Burst Type | 0 | | 9.2.3.7 | |

9.2.1.47E Neighbouring TDD Cell Measurement Information LCR

This IE provides information on the neighbouring 1.28Mcps TDD cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time Slot LCR* IE and *Midamble Shift LCR* IE shall be included if available.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|------------------------------------|
| UC-Id | M | | 9.2.1.65B | |
| UARFCN | М | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]) |
| Cell Parameter ID | M | | 9.2.3.4 | |
| Time Slot LCR | 0 | | 9.2.3.24A | |
| Midamble Shift LCR | 0 | | 9.2.3.7A | |

9.2.1.47F NI

The NI IE provides a Notification Indicator determined as specified in TS 25.304 [37].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| NI | | | INTEGER (065535) | |

9.2.1.48 Node B Communication Context ID

The Node B Communication Context ID is the identifier of the Communication Context in the Node B, it corresponds to the dedicated resources which are necessary for an UE using one or more dedicated channels in a given Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|-----------------------|--|
| Node B Communication | | | INTEGER | "2^20-1" is a reserved value |
| Context ID | | | (02^20-1) | indicating all the existing and future Node B Communication Contexts that can be reached by the Communication Control Port (All NBCC). |

9.2.1.49 Payload CRC Presence Indicator

This parameter indicates whether FP payload 16 bit CRC is used or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------------|----------|-------|---|-----------------------|
| Payload CRC Presence Indicator | | | ENUMERATED (CRC Included, CRC Not Included,) | |

9.2.1.49A PICH Power

The *PICH Power* IE indicates a power level relative to the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell. If Transmit Diversity is applied to the PICH (resp. the MICH), the *PICH Power* IE indicates the power offset between the linear sum of the power for the PICH (resp. the MICH) on all branches and the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|------------------------------|
| PICH Power | | | INTEGER (-10+5) | Unit: dB Range: -10 +5 dB |
| | | | | Step: 1dB |

9.2.1.49B Power Local Cell Group ID

The Power Local Cell Group ID represents resources in the Node B which have been pooled from a DL power capability point of view.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|---------------------------|-----------------------|
| Power Local Cell Group ID | | | Local Cell ID 9.2.1.38 | |

9.2.1.49C Priority Queue ID

The Priority Queue ID provides the identity of the Priority Queue. The Priority Queue ID is unique across all MAC-d flows that are currently allocated for one Node B Communication Context or across all Common MAC flows [FDD - within a cell][1.28Mcps TDD - within a carrier].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Priority Queue ID | | | INTEGER (07) | |

9.2.1.49D Process Memory Size

The *Process Memory Size* IE is the size of an HARQ process in the Node B expressed in bits. It provides the maximum number of soft channel bits in the virtual IR buffer (TS 25.212 [8] or TS 25.222 [34]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|-------------------------|-----------------------|
| Process Memory Size | | | ENUMERATED (| |
| | | | 800, 1600, 2400, 3200, | |
| | | | 4000, 4800, 5600, 6400, | |
| | | | 7200, 8000, 8800, 9600, | |
| | | | 10400, 11200, 12000, | |
| | | | 12800, 13600, 14400, | |
| | | | 15200, 16000, 17600, | |
| | | | 19200, 20800, 22400, | |
| | | | 24000, 25600, 27200, | |
| | | | 28800, 30400, 32000, | |
| | | | 36000, 40000, 44000, | |
| | | | 48000, 52000, 56000, | |
| | | | 60000, 64000, 68000, | |
| | | | 72000, 76000, 80000, | |
| | | | 88000, 96000, 104000, | |
| | | | 112000, 120000, 128000, | |
| | | | 136000, 144000, 152000, | |
| | | | 160000, 176000, 192000, | |
| | | | 208000, 224000, 240000, | |
| | | | 256000, 272000, 288000, | |
| | | | 304000,) | |

9.2.1.50 Puncture Limit

The Puncture Limit limits the amount of puncturing that can be applied in order to minimise the number of dedicated physical channels.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|-----------------------|---|
| Puncture Limit | | | INTEGER (015) | Unit: % Range: 40100 % Step: 4 % 100% means no puncturing [FDD - Value "0" is not applicable for E-DPCH.] |

9.2.1.50A QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| QE-Selector | | | ENUMERATED (| |
| | | | Selected, | |
| | | | Non-Selected) | |

9.2.1.51 Report Characteristics

The report characteristics define how the reporting shall be performed.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|--------------------------------------|--|-------------|----------------------|
| CHOICE Report Characteristics | М | | | | - | |
| >On Demand | | | NULL | | | |
| >Periodic | | | NOLL | | | |
| >>Report Periodicity | М | | 9.2.1.51a | The frequency with which the Node B shall send measurement reports. | - | |
| >Event A | | | | | | |
| >>Measurement Threshold | M | | 9.2.1.44 | The threshold for which the Node B shall trigger a measurement report. | _ | |
| >>Measurement Hysteresis Time | 0 | | 9.2.1.41A | | _ | |
| >Event B | | | | | | |
| >>Measurement Threshold | M | | 9.2.1.44 | The threshold for which the Node B shall trigger a measurement report. | _ | |
| >>Measurement Hysteresis Time | 0 | | 9.2.1.41A | | _ | |
| >Event C | N.4 | | 0.04.40 | | | |
| >>Measurement Increase/Decrease Threshold | M | | 9.2.1.43 | | _ | |
| >>Measurement Change Time | M | | 9.2.1.40B | The time the measurement entity shall rise on (in ms), in order to trigger a measurement report. | _ | |
| >Event D | | | | • | | |
| >>Measurement Increase/Decrease Threshold | М | | 9.2.1.43 | | _ | |
| >>Measurement Change Time >Event E | M | | 9.2.1.40B | The time the measurement entity shall fall (in ms), in order to trigger a measurement report. | - | |
| >>Measurement | М | | Measurement | | _ | |
| Threshold 1 | | | Threshold 9.2.1.44 | | | |
| >>Measurement Threshold 2 | 0 | | Measurement Threshold 9.2.1.44 | | _ | |
| >>Measurement Hysteresis Time | 0 | | 9.2.1.41A | | _ | |
| >>Report Periodicity | 0 | | 9.2.1.51a | The frequency with which the Node B shall send measurement reports. | - | |
| >Event F | | | | | | |
| >>Measurement Threshold 1 | M | | Measurement Threshold 9.2.1.44 | | _ | |
| >>Measurement Threshold 2 | 0 | | Measurement Threshold 9.2.1.44 | | _ | |
| >>Measurement Hysteresis Time | 0 | | 9.2.1.41A | | _ | |
| >>Report Periodicity | 0 | | 9.2.1.51a | The frequency with which the Node B shall send | _ | |

| | | | | measurement reports. | | |
|---------------------------------------|---|---|----------|--|-----|--------|
| >Additional Report Characteristics | | | | See Note 1 | | |
| >>On Modification | | | | | | |
| >>>On Modification | | 1 | | | YES | reject |
| >>>Measurem ent Threshold | M | | 9.2.1.44 | The IE shall be ignored if the Dedicated Measurement Type is set to "Best Cell Portions LCR" | _ | |

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

9.2.1.51a Report Periodicity

The Report Periodicity defines the frequency at which the Node B shall send measurement reports.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|--|
| CHOICE Report Periodicity | M | | | |
| Scale | | | | |
| >millisecond | | | | |
| >>Report Periodicity Value | М | | INTEGER (16000,) | Unit: ms Range: 1060000 ms Step: 10 ms |
| >minute | | | | |
| >>Report Periodicity Value | М | | INTEGER (160,) | Unit: min Range: 160 min Step: 1 min |

9.2.1.51A Requested Data Value

The *Requested Data Value* IE contains the relevant data concerning the ongoing information exchange. The *Requested Data Value* IE shall include at least one of the following IE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------|----------|---|-----------------------|--------------------------|-------------|-------------------------|
| DGPS Corrections | 0 | | 9.2.1.24B | | _ | |
| GPS Navigation | 0 | | 9.2.1.31B | | _ | |
| Model & Time | | | | | | |
| Recovery | | | | | | |
| GPS Ionospheric | 0 | | 9.2.1.31C | | _ | |
| Model | | | | | | |
| GPS UTC Model | 0 | | 9.2.1.31D | | _ | |
| GPS Almanac | 0 | | 9.2.1.31F | | _ | |
| GPS Real-Time | 0 | | 9.2.1.31E | | _ | |
| Integrity | _ | | _ | | | |
| GPS RX Pos | 0 | | 9.2.1.31G | | | |
| GANSS Common Data | | 01 | | | YES | ignore |
| >GANSS | 0 | | 9.2.1.91 | | _ | |
| Ionospheric | | | | | | |
| Model | | | | | | |
| >GANSS RX Pos | 0 | | 9.2.1.95 | | - | |
| >GANSS | 0 | | 9.2.1.91a | | YES | ignore |
| Additional | | | | | | |
| Ionospheric | | | | | | |
| Model >GANSS Earth | 0 | | 9.2.1.107a | | YES | ignore |
| Orientation | 0 | | 9.2.1.107a | | 163 | ignore |
| Parameters | | | | | | |
| GANSS Generic | | 0 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<> | | | GLOBAL | ignore |
| Data | | NoGAN SS> | | | 0205/12 | ignoro |
| >GANSS ID | 0 | | 9.2.1.104 | | _ | |
| >DGANSS | 0 | | 9.2.1.88 | | _ | |
| Corrections | | | | | | |
| >GANSS | 0 | | 9.2.1.105 | | _ | |
| Navigation Model | | | | | | |
| And Time | | | | | | |
| Recovery | | | | | | |
| >GANSS Time | 0 | | 9.2.1.96 | | _ | |
| Model | | | 0.04.07 | | | |
| >GANSS UTC | 0 | | 9.2.1.97 | | _ | |
| Model | | | 0.04.00 | | | |
| >GANSS | 0 | | 9.2.1.89 | | _ | |
| Almanac >GANSS Real | 0 | | 9.2.1.94 | | | |
| Time Integrity | ١ | | 9.2.1.94 | | _ | |
| >GANSS Data Bit | 0 | | 9.2.1.103 | | | |
| Assistance | ١ | | 3.2.1.103 | | _ | |
| >GANSS | 0 | | 9.2.1.96a | | YES | ignore |
| Additional Time | ~ | | 3.2.1.000 | | . 20 | ignore |
| Models | | | | | | |
| >GANSS | 0 | | 9.2.1.105a | | YES | ignore |
| Additional | | | | | | |
| Navigation | | | | | | |
| Models And Time | | | | | | |
| Recovery | | | | | | |
| >GANSS | 0 | | 9.2.1.97a | | YES | ignore |
| Additional UTC | | | | | | |
| Models | | | | | | |
| >GANSS | 0 | | 9.2.1.107c | | YES | ignore |
| Auxiliary | | | | | | |
| Information | 0.04400 | | 0.04.407 | | VEO | |
| >SBAS ID | C-GANSS- | | 9.2.1.107b | | YES | ignore |
| | ID | | | | | |

| Condition | Explanation | | |
|-----------|---|--|--|
| GANSS-ID | This IE shall be present if the GANSS ID IE indicates 'SBAS'. | | |

| Range Bound | Explanation | | |
|-------------|---------------------------------|--|--|
| maxNoGANSS | Maximum number of GANSS Systems | | |

9.2.1.51B Requested Data Value Information

The *Requested Data Value Information* IE provides information on whether or not the Requested Data Value is available in the message and also the Requested Data Value itself if available. In case of "Periodic" and "On Modification" reporting, "Information Not Available" shall be used when at least one part of the requested information was not available at the moment of initiating the Information Reporting procedure.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Information | M | | | |
| Availability Indicator | | | | |
| >Information Available | | | | |
| >>Requested Data Value | M | | 9.2.1.51A | |
| >Information Not Available | | | NULL | |

9.2.1.52 Resource Operational State

The Resource Operational State is used to indicate the current operational state of the associated resource following a Node B failure.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|---------------------------------------|--|
| Resource Operational State | | | ENUMERATED (Enabled, Disabled) | When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to TS 25.430 [6]. |

9.2.1.52A Retention Priority

Void.

9.2.1.52B RLC Mode

The RLC Mode IE indicates the RLC Mode used for a Priority Queue.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| RLC Mode | | | ENUMERATED (| |
| | | | RLC-AM, RLC- | |
| | | | UM,) | |

9.2.1.53 RL ID

The RL ID is the unique identifier for one RL associated with a UE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| RL ID | | | INTEGER (031) | |

9.2.1.53a RNC-ld

This is the identifier of one RNC in UTRAN.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| RNC-Id | | | INTEGER (04095) | |

9.2.1.53b RTWP* Reporting Indicator

The RTWP* Reporting Indicator indicates if the RTWP* measurement value shall be included together with the reported RSEPS measurement value.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|-----------------------|-----------------------|
| RTWP* Indicator | | | ENUMERATED (| |
| | | | RTWP* Reporting | |
| | | | Required) | |

9.2.1.53c RTWP* for Cell Portion Reporting Indicator

The RTWP* for Cell Portion Reporting Indicator indicates if the RTWP* for Cell Portion measurement value shall be included together with the reported RSEPS measurement value.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|--|-----------------------|
| RTWP* per Cell Portion Indicator | | | ENUMERATED (RTWP* for Cell Portion Reporting Required) | |

9.2.1.53A SFN

System Frame Number of the cell, see ref. TS 25.402 [17].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| SFN | | | INTEGER (04095) | |

9.2.1.53B Segment Type

Segment type as defined in TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|---|-----------------------|
| Segment Type | | | ENUMERATED (First segment, First segment short, Subsequent segment, Last segment, Last segment short, Complete SIB, Complete SIB short,) | |

9.2.1.53C SFN-SFN Measurement Threshold Information

The SFN-SFN Measurement Threshold Information defines the related thresholds SFN-SFN Observed Time Difference measurements which shall trigger the Event On Modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--------------------------|--|
| SFN-SFN Change Limit | 0 | | INTEGER(1256) | Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit: chip Step: 1/16 chip |
| Predicted SFN-SFN Deviation Limit | 0 | | INTEGER(1256) | Deviation of the predicated SFN-SFN from the latest measurement result, which shall trigger a new report. Unit: chip Step: 1/16 chip |

9.2.1.53D SFN-SFN Measurement Time Stamp

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| CHOICE Mode | M | | | |
| >FDD | | | | |
| >>SFN | М | | 9.2.1.53A | Indicates the SFN of the reference cell at which the measurement has been performed. |
| >TDD | | | | |
| >>SFN | М | | 9.2.1.53A | Indicates the SFN of the reference cell at which the measurement has been performed. |
| >>Time Slot | М | | 9.2.3.23 | Indicates the Time Slot of the reference cell at which this measurement has been performed. |

9.2.1.53E SFN-SFN Measurement Value Information

The *SFN-SFN Measurement Value Information* IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|---|--------------------------|---|
| Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information | | 1 <maxno MeasNCell ></maxno | | |
| >UC-Id | М | | 9.2.1.65B | |
| >SFN-SFN Value | М | | 9.2.1.53F | |
| >SFN-SFN Quality | 0 | | INTEGER (0255) | Indicates the standard deviation (std) of the SFN-SFN Observed Time Difference measurements in 1/16 chip. SFN-SFN Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Value, where x is the reported SFN-SFN Value and $\mu = E[x]$ is the expectation value of x. |
| >SFN-SFN Drift Rate | М | | INTEGER (-100+100) | Indicates the SFN-SFN drift rate in 1/256 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell. |
| >SFN-SFN Drift Rate Quality | 0 | | INTEGER (0100) | Indicates the standard deviation (std) of the SFN-SFN drift rate measurements in 1/256 chip per second. SFN-SFN Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Drift Rate, where x is the reported SFN-SFN Drift Rate and $\mu = E[x]$ is the expectation value of x. |
| >SFN-SFN Measurement Time Stamp | М | | 9.2.1.53D | |
| Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information | | 0 <maxno MeasNCell -1></maxno | | |
| >UC-Id | М | | 9.2.1.65B | |

| Range Bound | Explanation |
|----------------|--|
| maxnoMeasNCell | Maximum number of neighbouring cells that can be measured on |

9.2.1.53F SFN-SFN Value

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|-----------------------|---|
| CHOICE Mode | M | | | |
| >FDD | | | | |
| >>SFN-SFN | M | | INTEGER (0614399) | According to mapping in TS 25.133 [22]. |
| >TDD | | | | 1.28 Mcps and 3.84 Mcps only |
| >>SFN-SFN | M | | INTEGER (040961) | According to mapping in TS 25.123 [23]. |
| >TDD 7.68 Mcps | | | | |
| >>SFN-SFN | M | | INTEGER (081923) | According to mapping in TS 25.123 [23]. |

9.2.1.53G RL Specific DCH Information

The *RL Specific DCH Information* IE provides RL specific DCH Information for DCHs. In the case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-----------------------------------|-----------------------------|--|-------------|----------------------|
| RL Specific DCH Information | | 1 <maxno ofDCHs></maxno | Reference | | _ | |
| >DCH ID | M | | 9.2.1.20 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | - | |
| >Transport Bearer Not Requested Indicator | 0 | | 9.2.2.4G | FDD Only | YES | ignore |

| Range Bound | Explanation |
|-------------|-----------------------------------|
| maxnoofDCHs | Maximum number of DCHs for one UE |

9.2.1.53H Scheduling Priority Indicator

Indicates the relative priority of the HS-DSCH [FDD - or E-DCH data frame]. Used by the Node B when scheduling HS-DSCH[FDD - or E-DCH].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|-----------------------|---|
| Scheduling Priority Indicator | | | INTEGER (015) | Relative priority of the HS-DSCH [FDD - or E-DCH data frame]: "0" =Lowest Priority "15" =Highest Priority |

9.2.1.53I SID

The SID IE provides the identity of the Size Index.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| SID | | | INTEGER (07) | |

9.2.1.54 SIB Deletion Indicator

Void.

9.2.1.55 SIB Originator

Indicates if the Node B shall fill in the SIB information or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|----------------------------------|-----------------------|
| SIB Originator | | | ENUMERATED (Node B, CRNC, | |
| | | | ·) | |

9.2.1.55A Signalling Bearer Request Indicator

The Signalling Bearer Request Indicator IE indicates if a new signalling bearer needs to be established for the control of Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Signalling Bearer Request | | | ENUMERATED | |
| Indicator | | | (Bearer Requested) | |

9.2.1.56 Shutdown Timer

The shutdown timer shall indicate the length of time available to the CRNC to perform the block of a resource when a Normal priority block is requested.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------|-----------------------|
| Shutdown Timer | | | INTEGER (13600) | Unit: second |

9.2.1.56a T1

The T1 IE is used as described in ref 3GPP TS 25.321 [32] subclause 11.6.2.3.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------|----------|-------|---|--|
| T1 | | | ENUMERATED (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 200, 300, 400,) | Unit: ms Node B may use this value to stop the re-transmission of the corresponding MAC-hs PDU. |

9.2.1.56A T_RLFAILURE

The Radio Link Failure procedure shall be triggered after a period of time T_RLFAILURE has elapsed with a persisting out-of-sync indication (see also ref. TS 25.214 [10] and TS 25.224 [21]).

| Information Element/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-------|--------------------------|-----------------------|
| T_RLFAILURE | | | INTEGER (0255) | Unit: second |
| | | | | Range: 0 25.5 s |
| | | | | Step: 0.1 s |

9.2.1.56B Start Of Audit Sequence Indicator

Indicates if the AUDIT REQUEST message initiates a new audit sequence or not.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-------------------------|----------|-------|--------------------|-----------------------|
| | | | Reference | |
| Start Of Audit Sequence | | | ENUMERATED (| |
| Indicator | | | Start Of Audit | |
| | | | Sequence, | |
| | | | Not Start Of Audit | |
| | | | Sequence) | |

9.2.1.56C TFCI2 Bearer Request Indicator

Void.

9.2.1.57 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. [TDD - If it is present in the timeslot, it will be mapped to the channelisation code defined by TS 25.221 [19].]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| TFCI presence | | | ENUMERATED (| |
| | | | Present, | |
| | | | Not Present) | |

9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------------|-----------------------------------|--------------------------|---|
| CHOICE TFCS Values | M | | | |
| >Always Used | | | | This choice is always made. |
| >>TFCS | | 1 <maxno ofTFCs></maxno | | The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.] |
| >>>CTFC | M | | 9.2.1.18A | |
| >>>CHOICE Gain Factors | C- PhysChan | | | |
| >>>Signalled Gain Factors | - | | | |
| >>>>CHOICE Mode | M | | | |
| >>>>FDD | | | | |
| >>>>>Gain Factor β_C | М | | INTEGER (015) | For UL DPCCH or control part of PRACH; mapping in accordance to TS 25.213 [9] |
| >>>>>Gain Factor β _D | M | | INTEGER (015) | For UL DPDCH or data part of PRACH: mapping in accordance to TS 25.213 [9] |
| >>>>TDD | | | | |
| >>>>>Gain Factor β | М | | iNTEGER (015) | For UL DPCH in TDD; mapping in accordance to TS 25.223 [20]. |
| >>>>Reference TFC nr | 0 | | INTEGER (03) | If this TFC is a reference TFC, this IE indicates the reference number. |
| >>>>Computed Gain Factors | | | | |
| >>>>Reference TFC | M | | INTEGER (03) | Indicates the reference TFC to be used to calculate the gain factors for this TFC. |
| >Not Used | | | | This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received. |

| Condition | Explanation |
|-----------|---|
| PhysChan | The IE shall be present if the TFCS concerns a UL DPCH or PRACH |
| | channel. |

| Range Bound | Explanation |
|-------------|---|
| maxnoofTFCs | The maximum number of Transport Format Combinations |

9.2.1.58A TNL QoS

This IE indicates the TNL QoS characteristics of the transport bearer for the uplink data traffic.

When the DS Field IE is used, the value of this IE is configurable by the operator.

When the *Generic Traffic Category* IE is used, generic traffic categories are implementation-specific (e.g. they may be determined by the sender from the application parameters). The value assigned to each of these categories and sent in the *Generic Traffic Category* IE is configurable by the operator, as well as the mapping of this value to DS field (IETF RFC 2474 [35]) at the Node B side.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|---|
| CHOICE TNL QoS type | M | | | |
| >DS Field | | | | |
| >>DS Field | M | | BIT STRING (8) | DS Field as defined in IETF RFC 2474 [35]. Typically used when the Node B and its CRNC are in the same DS domain as defined in IETF RFC 2475 [36]. |
| >Generic Traffic Category | | | | |
| >>Generic Traffic Category | M | | BIT STRING (8) | |

9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

[TDD - The Transport Format Set for each transport channel within the same CCTrCH shall have the same value for the 2^{nd} Interleaving Mode IE.]

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------------------------|-----------|--|---------------------|-------------------------------|
| | | | Reference | |
| Dynamic Transport Format | | 1 <maxtf< td=""><td></td><td>The first instance of the</td></maxtf<> | | The first instance of the |
| Information | | count> | | parameter corresponds to TFI |
| | | | | zero, the second to 1 and so |
| | | | | on. |
| >Number of Transport Blocks | M | | INTEGER (0512) | |
| >Transport Block Size | C-Blocks | | INTEGER (05000) | Unit: Bits |
| >CHOICE Mode | M | | | |
| >>TDD | | | | |
| >>>Transmission Time | C- | 1 <maxtt< td=""><td></td><td></td></maxtt<> | | |
| Interval Information | TTIdynami | Icount> | | |
| >>>>Transmission | M | | ENUMERATED | Unit: ms |
| Time Interval | | | (10, 20, 40, 80,) | |
| Semi-Static Transport | | 1 | | |
| Format Information | | | | |
| >Transmission Time Interval | M | | ENUMERATED | Unit: ms; |
| | | | (10, 20, 40, 80, | Value "dynamic' for TDD only; |
| | | | dynamic,,5) | Value "5' for LCR TDD only; |
| | | | | For FDD DCH, the value "80" |
| | | | | is applicable only when DL |
| | | | | DPCH Slot Format IE indicates |
| | | | | a slot format with SF=512. |
| >Type Of Channel Coding | M | | ENUMERATED (| [FDD - The value "No |
| | | | No codingTDD, | codingTDD" shall be treated |
| | | | Convolutional, | as logical error if received] |
| | | | Turbo, | |
| Onding Data | 0.0 | |) | |
| >Coding Rate | C-Coding | | ENUMERATED | |
| Data Matahin n Attribust | N 4 | | (1/2, 1/3,) | |
| >Rate Matching Attribute | M | | INTEGER | |
| >CRC Size | N 4 | | (1maxRM) ENUMERATED | |
| >UKU SIZE | M | | - | |
| CHOICE Made | N.4 | | (0, 8, 12, 16, 24,) | |
| >CHOICE Mode | M | | | |
| >>TDD | | | ENUMEDATED (| |
| >>>2 nd Interleaving Mode | M | | ENUMERATED (| |
| | | | Frame related, | |
| | | | Timeslot related, | |
| | | |) | |

| Condition | Explanation |
|------------|--|
| Blocks | The IE shall be present if the Number Of Transport Blocks IE is set to |
| | a value greater than 0. |
| Coding | The IE shall be present if the Type Of Channel Coding IE is set to |
| | "Convolutional" or "Turbo". |
| TTIdynamic | The IE shall be present if the Transmission Time Interval IE in the |
| - | Semi-Static Transport Format Information IE is set to "dynamic'. |

| Range Bound | Explanation | | | |
|-------------|--|--|--|--|
| maxTFcount | Maximum number of different Transport Formats that can be included | | | |
| | in the Transport Format Set for one transport channel | | | |
| maxRM | Maximum number that could be set as rate matching attribute for a | | | |
| | transport channel | | | |
| maxTTlcount | The amount of different TTIs that are possible for that Transport | | | |
| | Format | | | |

9.2.1.60 ToAWE

TOAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. TOAWE is defined with a positive value relative Latest Time of Arrival (LTOA). A data frame arriving after TOAWE gives a Timing Adjustment Control frame response.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| ToAWE | | | INTEGER (02559) | Unit: ms |

9.2.1.61 ToAWS

TOAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. TOAWS is defined with a positive value relative Time of Arrival Window Endpoint (TOAWE). A data frame arriving before TOAWS gives a Timing Adjustment Control frame response.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| ToAWS | | | INTEGER (01279) | Unit: ms |

9.2.1.62 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B Control Port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------|----------|-------|-----------------------|--|
| CHOICE Transaction ID Length | | | | The Transaction ID shall be interpreted for its integer value, not for the type of encoding ("short" or "long"). |
| >Short | | | | |
| >>Transaction ID Value | М | | INTEGER (0127) | |
| >Long | | | | |
| >>Transaction ID Value | M | | INTEGER (032767) | |

9.2.1.62A Transport Bearer Request Indicator

Indicates whether a new transport bearer needs to be established for carrying the concerned transport channel.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|---|-----------------------|
| Transport Bearer Request Indicator | | | ENUMERATED (Bearer Requested, Bearer Not Requested,) | |

9.2.1.63 Transport Layer Address

In case of transport bearer establishment with ALCAP (TS 25.426 [2], 3GPP TS 25.434 [31]), this IE contains the address to be used for Transport Network Control Plane signalling to establish the transport bearer according to (TS 25.426 [2], 3GPP TS 25.434 [31]).

In order to allow transport bearer establishment without ALCAP, this IE contains the address of the transport bearer to be used for the user plane transport.

For details on the Transport Address used see ref. TS 25.426 [2], 3GPP TS 25.434 [31].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Transport Layer Address | | | BIT STRING (1160, | |
| | | |) | |

9.2.1.64 TSTD Indicator

Indicates if TSTD shall be active or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------|-----------------------|
| TSTD Indicator | | | ENUMERATED (| |
| | | | active, | |
| | | | inactive) | |

9.2.1.64A T_{UTRAN-GPS} Measurement Value Information

The $T_{UTRAN-GPS}$ Measurement Value Information IE indicates the measurement results related to the UTRAN GPS Timing of Cell Frames for UE Positioning measurements.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|--------------------------|---|
| Tutran-gps | | 1 | | Indicates the UTRAN GPS Timing of Cell Frames forUE Positioning. According to mapping in TS 25.133 [22]. Significant values range from 0 to 37158911999999. |
| >MS | M | | INTEGER (016383) | Most Significant Part |
| >LS | М | | INTEGER (04294967295) | Least Significant Part |
| Tutran-gps Quality | 0 | | INTEGER (0255) | Indicates the standard deviation (std) of the T _{UTRAN-GPS} measurements in 1/16 chip. T _{UTRAN-GPS} Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T _{UTRAN-GPS} Value, where x is the reported T _{UTRAN-GPS} Value and $\mu = E[x]$ is the expectation value of x. |
| Tutran-gps Drift Rate | M | | INTEGER (-50+50) | Indicates the T _{UTRAN-GPS} drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock. |
| Tutran-gps Drift Rate Quality | 0 | | INTEGER (050) | Indicates the standard deviation (std) of the $T_{UTRAN-GPS}$ drift rate measurements in 1/256 chip per second. $T_{UTRAN-GPS}$ Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported $T_{UTRAN-GPS}$ Drift Rate, where x is the reported $T_{UTRAN-GPS}$ Drift Rate and $\mu = E[x]$ is the expectation value of x. |

9.2.1.64B T_{UTRAN-GPS} Measurement Threshold Information

The $T_{UTRAN\text{-}GPS}$ Measurement Threshold Information defines the related thresholds for UTRAN GPS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|-----------------------|---|
| T _{UTRAN-GPS} Change Limit | 0 | | INTEGER (1256) | Change of T _{UTRAN-GPS} value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip. |
| Predicted T _{UTRAN-GPS} Deviation Limit | 0 | | INTEGER (1256) | Deviation of the predicated T _{UTRAN-GPS} from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip. |

9.2.1.64C T_{UTRAN-GPS} Accuracy Class

The $T_{UTRAN-GPS}$ Accuracy Class IE indicates the accuracy class of the UTRAN GPS Timing of Cell Frames for UE Positioning measurement.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------------------------|----------|-------|-------------------|---|
| | | | Reference | |
| T _{UTRAN-GPS} Accuracy Class | | | ENUMERATED (| More information about T _{UTRAN} - |
| | | | Accuracy Class A, | GPS Measurement Accuracy |
| | | | Accuracy Class B, | Class is included in TS 25.133 |
| | | | Accuracy Class C, | [22] and TS 25.123 [23]. |
| | | |) | |

9.2.1.65 UARFCN

Designates the carrier frequency.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-------------------------------|
| UARFCN | | | INTEGER | As defined in subclause 5.4.3 |
| | | | (016383,) | in TS 25.104 [14] and TS |
| | | | | 25.105 [15] |

9.2.1.65A UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a Local Cell or a Local Cell Group.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| UL Capacity Credit | | | INTEGER (065535) | |

9.2.1.65B UTRAN Cell Identifier (UC-Id)

The UC-Id (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------|----------|-------|-----------------------|--|-------------|----------------------|
| RNC-ld | M | | 9.2.1.53a | If the Extended RNC-ID IE is included in the UC-Id IE, the RNC-Id IE shall be ignored. | - | _ |
| C-Id | M | | 9.2.1.9 | | - | _ |
| Extended RNC-ID | 0 | | 9.2.1.65C | The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095. | YES | reject |

9.2.1.65C Extended RNC-ID

This is the identifier of one RNC in UTRAN.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|-----------------------|--|
| Extended RNC-ID | | | INTEGER(409665535) | Note: Application of the Extended RNC-ID IE to very |
| | | | | large networks is FFS. |

9.2.1.66 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|------------------------------------|-----------------------|
| UL FP Mode | | | ENUMERATED (Normal, Silent, | |
| | | |) | |

9.2.1.67 UL interference level

Void.

9.2.1.67A UL SIR

The UL SIR indicates a received UL SIR.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| UL SIR | | | INTEGER (-82173) | Value = UL SIR/10 Unit: dB Range: -8.2 +17.3 dB Step: 0.1 dB |

9.2.1.68 Unidirectional DCH Indicator

The *Unidirectional DCH Indicator* IE indicates that the DCH is unidirectional.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|--------------------------|-----------------------|
| Unidirectional DCH Indicator | | | ENUMERATED | |
| | | | (Downlink DCH only, | |
| | | | Uplink DCH only) | |

9.2.1.69 E-DCH MAC-d Flow Multiplexing List

The E-DCH MAC-d Flow Multiplexing List indicates which E-DCH MAC-d flows are allowed to be multiplexed within a MAC-e/MAC-i PDU with the MAC-d flow it is associated to. If the E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow it indicates that E-DCH MAC-d PDUs of this E-DCH MAC-d flow are the first E-DCH MAC-d PDU in the MAC-e/MAC-i PDU. If an E-DCH MAC-d Flow Multiplexing List was already received within a previous Radio Link related procedure and no E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow, the Node B shall continue to use the previously received one. If no E-DCH MAC-d Flow Multiplexing List was ever received for an E-DCH MAC-d flow no restrictions shall be assumed for the related E-DCH MAC-d flow for multiplexing E-DCH MAC-d flows.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--------------------------|---|
| E-DCH MAC-d Flow Multiplexing List | | | BIT STRING (8) | The first Bit corresponds to E-DCH MAC-d flow 0, the second bit corresponds to E-DCH MAC-d flow 1, etc. For 1.28Mcps TDD, if the IE is included in the IE Common E-DCH MAC-d Flow Specific Information LCR, the first Bit corresponds to E-DCH MAC-d with the lowest E-DCH MAC-d Flow ID within the same frequency, the second bit corresponds to E-DCH MAC-d flow with the second lowest E-DCH MAC-d Flow ID within the same frequency, the second lowest E-DCH MAC-d Flow ID within the same frequency, etc. |

9.2.1.70 E-DCH Capability

This parameter defines the E-DCH capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|-----------------------|
| E-DCH Capability | | | ENUMERATED (E- | |
| | | | DCH Capable, E- | |
| | | | DCH non Capable) | |

9.2.1.71 E-DCH Logical Channel Information

The *E-DCH Logical Channel Information* IE is used for the establishment of E-DCH Logical Channels.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|--|---|-------------|-------------------------|
| E-DCH Logical Channel Information | | 1 <maxnoofl ogicalchanne ls></maxnoofl | | | - | |
| >Logical Channel ID | M | | 9.2.1.80 | | _ | |
| >Scheduling Priority Indicator | М | | 9.2.1.53H | | 1 | |
| >Scheduling Information | M | | 9.2.1.84 | | ı | |
| >MAC-es Guaranteed Bit Rate | 0 | | 9.2.1.82 | | I | |
| >E-DCH DDI Value | M | | 9.2.1.76 | If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value '0x3F' is reserved. Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | | |
| >MAC-d PDU Size List | | 1 <maxnoof MACdPDUSi ze></maxnoof | | | _ | |
| >>MAC-d PDU Size | M | | 9.2.1.38A | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | _ | |
| >Maximum MAC-d PDU Size Extended | 0 | | MAC PDU Size Extended 9.2.1.38C | | YES | reject |
| >MAC-es Maximum Bit Rate LCR | 0 | | 9.2.3.90 | 1.28Mcps TDD only | YES | ignore |
| >UE Aggregate Maximum Bit Rate Enforcement Indicator | 0 | | NULL | | YES | ignore |

| Range Bour | nd | Explanation |
|------------------------|----|---|
| Maxnooflogicalchannels | N | Maximum number of logical channels |
| maxnoofMACdPDUSize | N | Maximum number of MAC-d PDU size per Logical Channels |

9.2.1.72 E-DCH Logical Channel To Modify

The *E-DCH Logical Channel To Modify* IE is used for the reconfiguration of E-DCH Logical Channels.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------------|----------|---|--|---|-------------|-------------------------|
| E-DCH Logical Channel Information | | 1 <maxno oflogicalch annels></maxno | | | _ | |
| >Logical Channel ID | М | | 9.2.1.80 | | _ | |
| >Scheduling Priority Indicator | 0 | | 9.2.1.53H | | _ | |
| >Scheduling Information | 0 | | 9.2.1.84 | | _ | |
| >MAC-es Guaranteed Bit Rate | 0 | | 9.2.1.82 | | _ | |
| >E-DCH DDI Value | 0 | | 9.2.1.76 | If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value '0x3F' is reserved. Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | I. | |
| >MAC-d PDU Size List | | 0< maxnoofM ACdPDUS ize | | | _ | |
| >>MAC-d PDU Size | М | | 9.2.1.38A | Shall be ignored if Maximum MAC-d PDU Size Extended IE is present. | _ | |
| >Maximum MAC-d PDU Size Extended | 0 | | MAC PDU Size Extended 9.2.1.38C | | YES | reject |
| >MAC-es Maximum Bit Rate LCR | 0 | | 9.2.3.90 | 1.28Mcps TDD only | YES | ignore |

| Range Bound | Explanation |
|------------------------|---|
| maxnooflogicalchannels | Maximum number of logical channels |
| maxnoofMACdPDUSize | Maximum number of MAC-d PDU size per Logical Channels |

9.2.1.73 E-DCH MAC-d Flows To Delete

The *E-DCH MAC-d Flows To Delete* IE is used for the removal of E-DCH MAC-d flows.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|---|--------------------------|-----------------------|
| E-DCH MAC-d Flows To Delete | | 1 <maxno ofEDCHM ACdFlows</maxno | | |
| | | > | | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | |

| Range Bound | Explanation |
|----------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.1.74 E-DCH MAC-d Flow ID

The E-DCH MAC-d Flow ID is the unique identifier for one MAC-d flow on E-DCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--|-----------------------|
| E-DCH MAC-d Flow ID | | | INTEGER (0maxnoofEDCHM ACdFlows - 1) | |

| Range Bound | Explanation |
|----------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.1.74A E-DCH MAC-d PDU Size Capability

This parameter defines the capability for a Local Cell to support different MAC-d PDU Size formats. If this IE is set to "Flexible Size Capable" the Local Cell is "Fixed Size Capable" and "Flexible Size Capable". If this IE has not been configured or has been set to "Fixed Size Capable" the Local Cell is only "Fixed Size Capable".

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|-----------------------|-----------------------|
| E-DCH MAC-d PDU Size | | | ENUMERAT | |
| Capability | | | ED (Fixed | |
| | | | Size | |
| | | | Capable, | |
| | | | Flexible Size | |
| | | | Capable) | |

9.2.1.74B E-DCH MAC-d PDU Size Format

The *E-DCH MAC-d PDU Size Format* IE provides information about the type of MAC-d PDU Size Format that shall be used for the E-DCH in the new configuration. "Fixed MAC-d PDU Size" uses MAC-d PDU sizes defined in *MAC-d PDU Size List* IE of the *E-DCH Logical Channel Information* IE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by *Maximum MAC-d PDU Size Extended* IE of *E-DCH Logical Channel Information* IE. The actual MAC-d PDU size is determined as specified in TS 25.435 [24] and 3GPP TS 25.321 [32].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|----------------------|-----------------------|
| | | | Reference | |
| E-DCH MAC-d PDU Size | | | ENUMERATED | |
| Format | | | (Fixed MAC-d PDU | |
| | | | Size, Flexible MAC-d | |
| | | | PDU Size) | |

9.2.1.75 E-RNTI

The E-RNTI is needed for the UE (or UE group) specific CRC in E-AGCH, see ref. TS 25.319 [38].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| E-RNTI | | | INTEGER (065535) | |

9.2.1.76 E-DCH DDI Value

The E-DCH DDI Value is the Data Description Indicator value identifying a unique combination of E-DCH MAC-d Flow ID and MAC-d PDU Size.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-----------------------|
| E-DCH DDI Value | | | INTEGER (062) | |

9.2.1.77 E-DCH Provided Bit Rate Value

The E-DCH Provided Bit Rate Value IE indicates the E-DCH Provided Bit Rate as defined in 3GPP TS 25.321 [32].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| E-DCH Provided Bit Rate | | | INTEGER | Expressed in bit/s. |
| Value | | | (02^24-1,, | |
| | | | 2^24256,000,000) | |

9.2.1.78 E-DCH Provided Bit Rate Value Information

The E-DCH Provided Bit Rate Value Information IE reports the E-DCH Provided Bit Rate Value IE for each priority class.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|---|--------------------------|-----------------------|
| E-DCH Provided Bit Rate | | 1 <maxno< th=""><th></th><th></th></maxno<> | | |
| Value Information | | ofPriorityCl | | |
| | | asses> | | |
| >Scheduling Priority Indicator | M | | 9.2.1.53H | |
| >E-DCH Provided Bit Rate | M | | 9.2.1.77 | |
| Value | | | | |

| Range Bound | Explanation |
|------------------------|---|
| maxNoofPriorityClasses | Maximum number of E-DCH Scheduling Priorities |

9.2.1.79 E-DCH Processing Overload Level

The *E-DCH Processing Overload Level* IE defines the threshold that determines when the Node B shall indicate processing issue problems to the RNC.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|------------------------------------|----------|-------|-----------------------|--|
| E-DCH Processing Overload Level | | | INTEGER (010,) | Number of consecutive TTIs. The value "0" is a special value that means infinity, i.e. when this value is used, the Node B shall never indicate processing issue to the RNC. |

9.2.1.80 Logical channel ID

The Logical Channel ID IE is used to identify a E-DCH logical channel in Sheduling Information that is sent over Uu.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| Logical Channel ID | | | INTEGER (115) | |

9.2.1.81 Maximum Number Of Retransmissions For E-DCH

The *Maximum Number Of Retransmissions For E-DCH* IE specifies the upper boundary for retransmissions for a single MAC-d flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Maximum Number Of | | | INTEGER | |
| Retransmissions For E-DCH | | | (015) | |

9.2.1.82 MAC-es Guaranteed Bit Rate

The MAC-es Guaranteed Bit Rate IE indicates the guaranteed number of bits per second to be delivered over the air interface under normal operating conditions (provided there is data to deliver) for which the Node B shall provide sufficient UL resources. If the MAC-es Guaranteed Bit Rate IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

| IE/Group Name | Presence | Range | IE type and | Semantics description |
|----------------------------|----------|-------|------------------|-----------------------|
| | | | reference | |
| MAC-es Guaranteed Bit Rate | | | INTEGER (02^24- | Unit: bit/s |
| | | | 1,, | |
| | | | 2^24256,000,000) | |

9.2.1.83 MAC-e Reset Indicator

Indicates the MAC-e (or MAC-i) Reset is performed in UE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|-----------------------------|--|
| MAC-e Reset Indicator | | | ENUMERATED (MAC-e Reset) | Means MAC-i Reset in case Maximum MAC-d PDU Size Extended is configured for an E-DCH Logical Channel |

9.2.1.84 Scheduling Information

The Scheduling Information IE indicates whether the scheduling information is included for the E-DCH logical channel or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Scheduling Information | | | ENUMERATED (| |
| | | | Included, | |
| | | | Not Included) | |

9.2.1.85 E-DCH Power Offset for Scheduling Info

The *E-DCH Power Offset for Scheduling Info* is used to calculate the [FDD - E-DPDCH][TDD - E-PUCH] power for transmision of scheduling information without any MAC-d PDUs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| E-DCH Power Offset for | | | INTEGER (06) | Unit: dB |
| Scheduling Info | | | | Step: 1 dB |

9.2.1.86 MBMS Capability

This parameter defines the MBMS capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-----------------------|
| MBMS Capability | | | ENUMERATED | |
| | | | (MBMS Capable, | |
| | | | MBMS non Capable) | |

9.2.1.87 Modulation

Indicates the modulation to be used for a S-CCPCH CCTrCH.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------|----------|-------|--------------|-----------------------|
| | | | Reference | |
| Modulation | | | ENUMERATED (| |
| | | | QPSK, | |
| | | | 16QAM,) | |

9.2.1.88 DGANSS Corrections

This IE contains DGANSS corrections.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description | Criticality | Assigned Criticality |
|-------------------------------|-------------------------|--|--|---|-------------|-------------------------|
| DGANSS Reference Time | M | | INTEGER(0357 0 by step of 30) | Seconds. Time in GNSS system time (modulo 3600 s) when the DGANSS corrections were calculated | - | |
| DGANSS Information | | 1 to <maxsgnt ype></maxsgnt | | | I | |
| >GANSS Signal ID | 0 | | 9.2.1.106 | | _ | |
| >Status/Health | M | | ENUMERATED(UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.2, UDRE scale 0.1, no data, invalid data) | | l- | |
| >DGANSS Signal Information | C- Status/He alth | 1 to <maxgan SSSat></maxgan | | If the Cipher information is included these fields are ciphered. | _ | |
| >>Sat ID | М | | INTEGER(063) | Defined in TS 25.331 [18]. | - | |
| >>IOD | М | | BIT STRING(10) | | _ | |
| >>UDRE | M | | ENUMERATED(UDRE ≤ 1.0 m, 1.0m < UDRE ≤ 4.0m, 4.0m < UDRE ≤ 8.0m, 8.0m < UDRE) | The value in this field shall be multiplied by the UDRE Scale Factor in the IE Status/Health to determine the final UDRE estimate for the particular satellite. | _ | |
| >>PRC | М | | INTEGER(- 20472047) | Scaling factor 0.32 meters | _ | |
| >>RRC | М | | INTEGER(- 127127) | Scaling factor 0.032 meters/sec | _ | |
| >>DGNSS Validity Period | 0 | | 9.2.1.125 | | YES | ignore |

| Condition | Explanation |
|---------------|--|
| Status/Health | This IE shall be present if the Status/Health IE value |
| | is not equal to "no data" or "invalid data". |

| Range Bound | Explanation |
|-------------|---|
| maxGANSSSat | Maximum number of satellites for which data is included in the IE |
| maxSgnType | Maximum number of signals for which data is included in the IE |

9.2.1.89 GANSS Almanac

This IE contains a reduced-precision subset of the ephemeris and clock correction parameters.

| IE/Group name | Number M INTEGER(02 55) Almanac reference week , number of weeks since the beginning of GANSS specific system time (mod 256) | | Criticality | Assigned Criticality | | |
|---|---|---|-------------------|--|-----|--------|
| Week Number | | | - | | | |
| CHOICE Almanac Model | M | | | | _ | |
| >Keplerian Parameters | | | | Model 1 | _ | |
| >>T _{oa} | M | | INTEGER(02 55) | Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base | - | |
| >>IOD _a | М | | INTEGER(03 | Issue-Of –Data, common to all satellites | _ | |
| >>Satellite Information KP | | 1 to <maxga NSSSatA Imanac></maxga | | Almanacs are in the order of the SV IDs, the smallest ID first. | _ | |
| >>>Sat ID | М | | INTEGER(06 3) | Defined in TS 25.331 [18]. | _ | |
| >>>e | М | | BIT STRING(11) | Eccentricity, dimensionless (OS SIS ICD [39]) | _ | |
| >>>δi | М | | BIT STRING(11) | semi-circles (OS SIS ICD [39]) | _ | |
| >>>OMEGADOT | M | | BIT STRING(11) | Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi- circles/sec) (OS SIS ICD [39]) | _ | |
| >>>SV Health KP | М | | BIT STRING(4) | dimensionless | _ | |
| >>>delta A ^{1/2} | М | | BIT STRING(17) | Semi-Major Axis delta (meters) ^{1/2} (OS SIS ICD [39]) | _ | |
| >>>OMEGA ₀ | M | | BIT STRING(16) | Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi- circles) (OS SIS ICD [39]) | _ | |
| >>>M ₀ | M | | BIT STRING(16) | Mean Anomaly at Reference Time (semi- circles) (OS SIS ICD [39]) | _ | |
| >>>0 | М | | BIT STRING(16) | Argument of Perigee (semi-circles) (OS SIS ICD [39]) | - | |
| >>>af ₀ | М | | BIT STRING(14) | Seconds (OS SIS ICD [39]) | _ | |
| >>>af ₁ | М | | BIT STRING(11) | sec/sec (OS SIS ICD [39]) | - | |
| >NAV Keplerian Parameters >>Keplerian NAV | M | | | Model 2 | YES | ianoro |
| Almanac | IVI | | | | 153 | ignore |
| >>>T _{oa} | M | | INTEGER(02 55) | Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base | - | |
| >>>Satellite information NAV- KP | | 1 <maxga NSSSatA</maxga | | | _ | |

| | T | Ι. | 1 | T | | Γ |
|--|-----------|---|---|---|---------------|--------|
| | | Imanac> | | | | |
| >>>Sat ID | M | | INTEGER (063) | Defined in TS 25.331 [18]. | _ | |
| >>>e | М | | BIT | Eccentricity, | - | |
| | | | STRING(16) | dimensionless (IS-QZSS [47]) | | |
| >>>δi | M | | BIT STRING | Correction to inclination, | _ | |
| | | | (16) | semi-circles (IS-QZSS | | |
| | | | | [47]) | | |
| >>>OMEGADOT | М | | BIT STRING | Rate of right ascension, | _ | |
| | | | (16) | semi-circles/sec (IS- | | |
| | | | ` ´ | QZSS [47]) | | |
| >>>SV Health | М | | BIT STRING | Satellite health (IS- | _ | |
| | | | (8) | QZSS [47]) | | |
| >>>A ^{1/2} | М | | BIT STRING | Square root of the semi- | _ | |
| | | | (24) | maior axis. | | |
| | | | (- ') | meters ^{1/2} (IS-QZSS [47]) | | |
| >>>OMEGA0 | М | | BIT STRING | Longitude of ascending | _ | |
| >>> | 141 | | (24) | node of orbit plane at | | |
| | | | (= 1) | weekly epoch, | | |
| | | | | semi-circles (IS-QZSS | | |
| | | | | [47]) | | |
| >>>(i) | М | | BIT STRING | Argument of perigee | _ | |
| <i>>>>></i> ω | IVI | | (24) | semi-circles (IS-QZSS | _ | |
| | | | (27) | [47]) | | |
| >>>M ₀ | М | | BIT STRING | Mean anomaly at | | |
| >>>IVI0 | IVI | | (24) | reference time | _ | |
| | | | (24) | | | |
| | | | | semi-circles (IS-QZSS | | |
| | M | | DIT CTDING | [47]) Apparent satellite clock | | |
| >>>af ₀ | IVI | | BIT STRING | | _ | |
| | | | (11) | correction | | |
| | | | BIT STRING | seconds (IS-QZSS [47]) Apparent satellite clock | | |
| >>>>1t | M | | I BH STRING | I Annarent satellite clock | _ | |
| >>>af₁ | 141 | | | | | |
| >>>>ai1 | " | | (11) | correction | | |
| | | | | correction sec/sec (IS-QZSS [47]) | | |
| >Reduced Keplerian | | | | correction | | |
| >Reduced Keplerian Parameters | | | | correction sec/sec (IS-QZSS [47]) | VES | iznoro |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac | M | | (11) | correction sec/sec (IS-QZSS [47]) Model 3 | YES | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced | | | (11) INTEGER(02 | correction sec/sec (IS-QZSS [47]) Model 3 | YES - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac | M | | (11) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of | YES - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac | M | | (11) INTEGER(02 | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in | YES - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>T _{oa} | M | | (11) INTEGER(02 | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of | YES - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>T _{oa} | M | 1 | (11) INTEGER(02 | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in | YES – | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- | M | <maxga< td=""><td>(11) INTEGER(02</td><td>correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2¹² s Reference time of almanac within week in</td><td>YES –</td><td>ignore</td></maxga<> | (11) INTEGER(02 | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in | YES – | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>T _{oa} | M | <maxga NSSSatA</maxga | (11) INTEGER(02 | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in | YES - - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP | M M | <maxga< td=""><td>INTEGER(02 55)</td><td>correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2¹² s Reference time of almanac within week in GANSS TOD time base</td><td>-</td><td>ignore</td></maxga<> | INTEGER(02 55) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- | M | <maxga NSSSatA</maxga | INTEGER(02 55) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 | YES | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP >>>>Sat ID | M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP | M M | <maxga NSSSatA</maxga | (11) INTEGER(02 55) INTEGER (063) BIT | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP >>>>Sat ID | M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP >>>Sat ID | M M | <maxga NSSSatA</maxga | (11) INTEGER(02 55) INTEGER (063) BIT | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>Satellite information RED- KP >>>Sat ID >>>>Sat ID | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING(8) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP >>>Sat ID | M M | <maxga NSSSatA</maxga | INTEGER(02 55) INTEGER (063) BIT STRING(8) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>>Satellite information RED- KP >>>>Sat ID >>>>Sat ID | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING(8) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>Satellite information RED- KP >>>Sat ID >>>>Sat ID | M M M | <maxga NSSSatA</maxga | INTEGER(02 55) INTEGER (063) BIT STRING(8) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], | - | ignore |
| $\begin{array}{c} > Reduced \ Keplerian \\ Parameters \\ >> Keplerian \ Reduced \\ Almanac \\ >>> T_{oa} \\ \\ >>> Satellite \\ information \ RED-KP \\ \\ >>>> Sat \ ID \\ \\ >>>> \Omega_0 \\ \\ \end{array}$ | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING(8) BIT STRING (7) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | - | ignore |
| >Reduced Keplerian Parameters >>Keplerian Reduced Almanac >>>Toa >>Satellite information RED- KP >>>Sat ID >>>>Sat ID | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- | - | ignore |
| $\begin{array}{c} > Reduced \ Keplerian \\ Parameters \\ >> Keplerian \ Reduced \\ Almanac \\ >>> T_{oa} \\ \\ \hline >>> Satellite \\ information \ RED-KP \\ \\ >>>> Sat \ ID \\ \\ >>>> \Omega_0 \\ \\ \end{array}$ | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING(8) BIT STRING (7) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 | - | ignore |
| $\begin{array}{c} > Reduced \ Keplerian \\ Parameters \\ >> Keplerian \ Reduced \\ Almanac \\ >>> T_{oa} \\ \\ >>> Satellite \\ information \ RED-KP \\ \\ >>>> Sat \ ID \\ \\ >>>> \Omega_0 \\ \\ \end{array}$ | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], | - | ignore |
| $\begin{array}{c} > Reduced \ Keplerian \\ Parameters \\ >> Keplerian \ Reduced \\ Almanac \\ >>> T_{oa} \\ \\ >>> Satellite \\ information \ RED-KP \\ \\ >>>> Sat \ ID \\ \\ >>>> \Omega_0 \\ \\ >>>> \Phi_0 \\ \end{array}$ | M M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING (7) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | - | ignore |
| $\begin{array}{c} > Reduced \ Keplerian \\ Parameters \\ >> Keplerian \ Reduced \\ Almanac \\ >>> T_{oa} \\ \\ \hline >>> Satellite \\ information \ RED-KP \\ \\ >>>> Sat \ ID \\ \\ >>>> \Omega_0 \\ \\ \end{array}$ | M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING (7) BIT STRING | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) dimensionless (IS-GPS- | - | ignore |
| $\begin{array}{c} > Reduced \ \textit{Keplerian} \\ \textit{Parameters} \\ >> \text{Keplerian Reduced} \\ \textit{Almanac} \\ >>> \text{T}_{oa} \\ \\ >>> \text{Satellite} \\ \textit{information RED-KP} \\ \\ >>>> \text{Sat ID} \\ \\ >>>> \Omega_0 \\ \\ >>>> \Omega_0 \\ \\ >>>> \Phi_0 \\ \end{array}$ | M M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING (7) | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) dimensionless (IS-GPS- 200 [43], IS-GPS-705 | - | ignore |
| $\begin{array}{c} > Reduced \ \textit{Keplerian} \\ \textit{Parameters} \\ >> \text{Keplerian Reduced} \\ \textit{Almanac} \\ >>> \text{T}_{oa} \\ \\ >>> \text{Satellite} \\ \textit{information RED-KP} \\ \\ >>>> \text{Sat ID} \\ \\ >>>> \Omega_0 \\ \\ >>>> \Omega_0 \\ \\ >>>> \Phi_0 \\ \end{array}$ | M M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING (7) BIT STRING | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-705 [44], IS-GPS-800 [45], | - | ignore |
| $\begin{array}{c} > Reduced \ Keplerian \\ Parameters \\ >> Keplerian \ Reduced \\ Almanac \\ >>> T_{oa} \\ \\ >>> Satellite \\ \textbf{information RED-KP} \\ >>>> Sat \ ID \\ \\ >>>> \Omega_0 \\ \\ >>>> L1 \ Health \\ \\ \end{array}$ | M M M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING (7) BIT STRING (7) | Correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS-200 [43], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) dimensionless (IS-GPS-200 [43], IS-GPS-800 [45], IS-QZSS [47]) dimensionless (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | - | ignore |
| $\begin{array}{c} > Reduced \ \textit{Keplerian} \\ \textit{Parameters} \\ >> \text{Keplerian Reduced} \\ \textit{Almanac} \\ >>> \text{T}_{oa} \\ \\ >>> \text{Satellite} \\ \textit{information RED-KP} \\ \\ >>>> \text{Sat ID} \\ \\ >>>> \Omega_0 \\ \\ >>>> \Omega_0 \\ \\ >>>> \Phi_0 \\ \end{array}$ | M M M M | <maxga NSSSatA</maxga | INTEGER (02 55) INTEGER (063) BIT STRING (7) BIT STRING (7) BIT STRING | correction sec/sec (IS-QZSS [47]) Model 3 Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base Defined in TS 25.331 [18]. meters (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-705 [44], IS-GPS-800 [45], | - | ignore |

| | | 1 | _ | T | 1 | Г |
|-----------------------------------|---|--|--------------------|---|-----|--------|
| | | | | [44], IS-GPS-800 [45], IS-QZSS [47]) | | |
| >>>L5 Health | M | | BIT STRING (1) | dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | - | |
| >Midi Keplerian Parameters | | | | Model 4 | | |
| >>Keplerian Midi Almanac | М | | | | YES | ignore |
| >>>T _{oa} | M | | INTEGER(02 55) | Scaling factor 2 ¹² s Reference time of almanac within week in GANSS TOD time base | - | |
| >>>Satellite information MIDI- KP | | 1 <maxga NSSSatA Imanac></maxga | | | _ | |
| >>>Sat ID | М | | INTEGER (063) | Defined in TS 25.331 [18]. | _ | |
| >>>0 | M | | BIT STRING(11) | dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | - | |
| >>>δ _i | M | | BIT STRING (11) | semi-circles [IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |
| >>>>Ω_dot | M | | BIT STRING (11) | semi-circles/sec (IS- GPS-200 [43], IS-GPS- 705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |
| >>>sqrtA | M | | BIT STRING (17) | meters ^{1/2} (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) | _ | |
| >>>Ω ₀ | M | | BIT STRING (16) | semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |
| >>>>0 | M | | BIT STRING (16) | semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |
| >>>M ₀ | M | | BIT STRING (16) | semi-circles (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |
| >>>a _{fo} | M | | BIT STRING (11) | seconds (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) | _ | |
| >>>a _{f1} | M | | BIT STRING (10) | sec/sec (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS- QZSS [47]) | - | |
| >>>>L1 Health | M | | BIT STRING (1) | Dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | - | |
| >>>L2 Health | М | | BIT STRING (1) | dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |
| >>>L5 Health | M | | BIT STRING (1) | dimensionless (IS-GPS- 200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) | _ | |

| >GLONASS Keplerian Parameters | | | | Model 5 | | |
|---------------------------------------|---|--|--------------------|--|-----|--------|
| >>Keplerian GLONASS | М | | | | YES | ignore |
| >>Satellite | | 1 | | | | |
| information GLO- KP | | <pre><maxga imanac="" nsssata=""></maxga></pre> | | | _ | |
| >>>N ^A | М | | BIT STRING(11) | days [48] | _ | |
| >>>>n ^A | М | | BIT STRING (5) | dimensionless [48] | _ | |
| >>>>H _n ^A | М | | BIT STRING (5) | dimensionless [48] | _ | |
| >>>>\\(\lambda_n\)^A | М | | BIT STRING (21) | semi-circles [48] | _ | |
| >>>t _{\lambda n} ^A | М | | BIT STRING (21) | seconds [48] | _ | |
| >>>>Δi _n ^A | М | | BIT STRING (18) | semi-circles [48] | _ | |
| >>>ΔT _n ^A | М | | BIT STRING (22) | sec/orbit period [48] | - | |
| >>>ΔT_DOT _n ^A | М | | BIT STRING (7) | sec/orbit period ² [48] | - | |
| >>> ε _n ^A | М | | BIT STRING (15) | dimensionless [48] | - | |
| >>>>\on ^A | М | | BIT STRING (16) | semi-circles [48] | - | |
| >>>\tau_n^A | М | | BIT STRING (10) | seconds [48] | _ | |
| >>>C _n ^A | М | | BIT STRING (1) | dimensionless [48] | _ | |
| >>>Mn ^A | 0 | | BIT STRING (2) | dimensionless [48] | _ | |
| >SBAS ECEF Parameters | | | | Model 6 | | |
| >>ECEF SBAS Almanac | М | | | | YES | ignor |
| >>>Satellite information SBAS-ECEF | | 1 <maxga NSSSatA Imanac></maxga | | | - | |
| >>>Data ID | М | | BIT STRING(2) | Dimensionless (DTFA01-96-C-00025 [46]) | - | |
| >>>SV ID | М | | INTEGER (063) | Defined in TS 25.331 [18]. | _ | |
| >>>Health | М | | BIT STRING (8) | Dimensionless (DTFA01-96-C-00025 [46]) | _ | |
| >>>X _G | М | | BIT STRING (15) | meters (DTFA01-96-C- 00025 [46]) | | |
| >>>Y _G | М | | BIT STRING (15) | meters (DTFA01-96-C- 00025 [46]) | | |
| >>>Z _G | М | | BIT STRING (9) | meters (DTFA01-96-C- 00025 [46]) | - | |
| >>>X _G Rate-of- Change | М | | BIT STRING (3) | meters/sec (DTFA01-96- C-00025 [46]) | _ | |
| >>>Y _G Rate-of- Change | М | | BIT STRING (3) | meters/sec (DTFA01-96- C-00025 [46]) | - | |
| >>>>Z _G Rate-of- Change | М | | BIT STRING (4) | meters/sec (DTFA01-96- C-00025 [46]) | _ | |
| >>>t ₀ | М | | BIT STRING (11) | seconds (DTFA01-96-C- 00025 [46]) | - | |

| Range Bound | Explanation |
|-------------|-------------|
| | |
| | |
| | |

| ĺ | maxGANSSSatAlmanac | Maximum number of satellites for which data is included in the IE |
|---|--------------------|---|

9.2.1.90 GANSS Clock Model

The IE contains fields needed to model the GANSS clock parameters.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|-----------------------|----------|--|-----------------------|---|
| Satellite Clock Model | | 1 to <maxgan SSClockM od></maxgan | | Model -1 There may be more than one clock model included if defined in SIS ICD (e.g. two for Galileo) |
| >t _{oc} | М | | BIT STRING(14) | defined in OS SIS ICD [39] |
| >a _{i2} | М | | BIT STRING(12) | defined in OS SIS ICD [39] |
| >a _{i1} | М | | BIT STRING(18) | defined in OS SIS ICD [39] |
| >a _{i0} | М | | BIT STRING(28) | defined in OS SIS ICD [39] |
| >T _{GD} | 0 | | BIT STRING(10) | defined in OS SIS ICD [39] |
| >Model ID | 0 | | INTEGER(01,) | Coded as defined in TS 25.331 [18]. |

| Range bound | Explanation |
|------------------|---|
| maxGANSSClockMod | Maximum number of satellite clock models for which data is included |
| | in the IE. |

9.2.1.90a GANSS Additional Clock Models

The IE contains fields needed to model the GANSS clock parameters.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|-----------------------------------|----------|-------|-----------------------|---|
| CHOICE Additional Clock Models | | | | |
| >NAV-Clock Model | | | | Model-2 |
| >>t _{oc} | М | | BIT | Time of clock |
| | | | STRING(16) | (seconds) (IS-QZSS [47]) |
| >>af ₂ | M | | BIT STRING | Clock correction polynomial |
| | | | (8) | coefficient (sec/sec ²) (IS-QZSS [47]) |
| >>af ₁ | М | | BIT STRING (16) | Clock correction polynomial coefficient (sec/sec) (IS-QZSS [47]) |
| >>af ₀ | М | | BIT STRING (22) | Clock correction polynomial coefficient (seconds) (IS-QZSS [47]) |
| >>T _{GD} | М | | BIT STRING (8) | Group delay (seconds) (IS-QZSS [47]) |
| >CNAV/CNAV-2 Clock Model | | | | Model-3 |
| >>t _{oc} | М | | BIT STRING (11) | Clock data reference time of week |
| | | | (, | (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>t _{op} | М | | BIT STRING (11) | Clock data predict time of week |
| | | | (11) | (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>URA _{oc} Index | М | | BIT STRING (5) | SV clock accuracy index (dimensionless) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>URA _{oc1} Index | М | | BIT STRING (3) | SV clock accuracy change index |
| | | | | (dimensionless) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>URA _{oc2} Index | М | | BIT STRING (3) | SV clock accuracy change rate index |
| | | | (-) | (dimensionless) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>a _{f2-n} | M | | BIT STRING (10) | SV clock drift rate correction coefficient |
| | | | (10) | (sec/sec ²) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>a _{f1-n} | М | | BIT STRING (20) | SV clock drift correction coefficient |
| | | | (==) | (sec/sec) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>a _{f0-n} | М | | BIT STRING (26) | SV clock bias correction coefficient |
| | | | | (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>T _{GD} | M | | BIT STRING | Group delay correction |
| | | | (13) | (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>ISC _{L1CP} | 0 | | BIT STRING | Inter signal group delay |
| | | | | |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|-----------------------------------|----------|-------|-----------------------|--|
| | | | (13) | correction (seconds) (IS-GPS-800 [45], IS-QZSS [47]) |
| >>ISC _{L1CD} | 0 | | BIT STRING (13) | Inter signal group delay correction (seconds) (IS-GPS-800 [45], IS-QZSS [47]) |
| >>ISC _{L1C/A} | 0 | | BIT STRING (13) | Inter signal group delay correction (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-QZSS [47]) |
| >>ISC _{L2C} | 0 | | BIT STRING (13) | Inter signal group delay correction (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-QZSS [47]) |
| >>ISC _{L5I5} | 0 | | BIT STRING (13) | Inter signal group delay correction (seconds) (IS-GPS-705 [44], IS-QZSS [47]) |
| >>ISC _{L5Q5} | 0 | | BIT STRING (13) | Inter signal group delay correction (seconds) (IS-GPS-705 [44], IS-QZSS [47]) |
| >GLONASS Satellite Clock Model | | | | Model-4 |
| $>\tau_n(t_b)$ | М | | BIT STRING (22) | Satellite clock offset (seconds) [48] |
| $>\gamma_{n}(t_{b})$ | M | | BIT STRING (11) | Relative frequency offset from nominal value (dimensionless) [48] |
| $>\!\!\Delta 	au_{n}$ | 0 | | BIT STRING (5) | Time difference between transmission in G2 and G1 (seconds) [48] |
| >SBAS Satellite Clock Model | | | | Model-5 |
| >t ₀ | М | | BIT STRING (13) | (seconds) (DTFA01-96-C- 00025 [46]) |
| >a _{Gfo} | М | | BIT STRING (12) | (seconds) (DTFA01-96-C- 00025 [46]) |
| >a _{Gf1} | М | | BIT STRING (8) | (sec/sec) (DTFA01-96-C- 00025 [46]) |

9.2.1.91 GANSS Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|---------------------------------------|----------|-------|-----------------------|--|
| a_{i0} | М | | BIT STRING(12) | This parameter is used as defined in OS SIS ICD [39] |
| a _{i1} | М | | BIT STRING(12) | This parameter is used as defined in OS SIS ICD [39] |
| a _{i2} | М | | BIT STRING(12) | This parameter is used as defined in OS SIS ICD [39] |
| GANSS Ionosphere Regional Storm Flags | | 01 | | |
| >Storm Flag 1 | М | | BOOLEAN | This parameter is used as defined in OS SIS ICD [39] |
| >Storm Flag 2 | М | | BOOLEAN | This parameter is used as defined in OS SIS ICD [39] |
| >Storm Flag 3 | М | | BOOLEAN | This parameter is used as defined in OS SIS ICD [39] |
| >Storm Flag 4 | М | | BOOLEAN | This parameter is used as defined in OS SIS ICD [39] |
| >Storm Flag 5 | М | | BOOLEAN | This parameter is used as defined in OS SIS ICD [39] |

9.2.1.91a GANSS Additional Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|----------------|----------|-------|-----------------------|---|
| Data ID | М | | BIT STRING(2) | Coded as defined in TS 25.331 [18] |
| α_0 | М | | BIT STRING (8) | seconds (IS-QZSS [47]) |
| α ₁ | М | | BIT STRING (8) | sec/semi-circle (IS-QZSS [47]) |
| α_2 | М | | BIT STRING (8) | sec/(semi-circle) ² (IS-QZSS [47]) |
| α3 | М | | BIT STRING (8) | sec/(semi-circle) ³ (IS-QZSS [47]) |
| β ₀ | М | | BIT STRING (8) | seconds (IS-QZSS [47]) |
| β1 | М | | BIT STRING (8) | sec/semi-circle (IS-QZSS [47]) |
| β ₂ | М | | BIT STRING (8) | sec/(semi-circle) ² (IS-QZSS [47]) |
| β ₃ | M | | BIT STRING (8) | sec/(semi-circle) ³ (IS-QZSS [47]) |

9.2.1.92 GANSS Navigation Model

Void.

9.2.1.93 GANSS Orbit Model

This IE contains information for GANSS orbit model parameters.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|-----------------------|----------|-------|-----------------------|-----------------------|
| CHOICE Orbit Model | М | | | |
| >Keplerian Parameters | | | | Model-1 |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|----------------------|----------|-------|-----------------------|---|
| >>t _{0e} | М | | BIT STRING(14) | Time-of-Ephemeris in seconds, scale factor 60 (OS SIS ICD [39]) |
| >>0 | М | | BIT STRING(32) | Argument of Perigee (semi- circles) (OS SIS ICD [39]) |
| >>∆n | M | | BIT STRING(16) | Mean Motion Difference From Computed Value (semi- circles/sec) (OS SIS ICD [39]) |
| >>M ₀ | M | | BIT STRING(32) | Mean Anomaly at Reference Time (semi-circles) (OS SIS ICD [39]) |
| >>OMEGAdot | М | | BIT STRING(24) | Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) (OS SIS ICD [39]) |
| >>e | М | | BIT STRING(32) | Eccentricity, scale factor 2 ⁻³³ (OS SIS ICD [39]) |
| >>ldot | M | | BIT STRING(14) | Rate of Inclination Angle (semi-circles/sec) (OS SIS ICD [39]) |
| >>sqrtA | M | | BIT STRING(32) | Semi-Major Axis in (meters) ^{1/2} , scale factor 2 ⁻¹⁹ (OS SIS ICD [39]) |
| >>i ₀ | M | | BIT STRING(32) | Inclination Angle at Reference Time (semi-circles) (OS SIS ICD [39]) |
| >>OMEGA ₀ | М | | BIT STRING(32) | Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) (OS SIS ICD [39]) |
| >>C _{rs} | М | | BIT STRING(16) | Amplitude of the Sine Harmonic Correction Term to the Orbit Radius (meters) (OS SIS ICD [39]) |
| >>Cis | М | | BIT STRING(16) | Amplitude of the Sine Harmonic Correction Term To The Angle Of Inclination (radians) (OS SIS ICD [39]) |
| >>C _{us} | М | | BIT STRING(16) | Amplitude of the Sine Harmonic Correction Term To The Argument Of Latitude (radians) (OS SIS ICD [39]) |
| >>C _{rc} | М | | BIT STRING(16) | Amplitude of the Cosine Harmonic Correction Term to the Orbit Radius (meters) (OS SIS ICD [39]) |
| >>C _{ic} | М | | BIT STRING(16) | Amplitude of the Cosine Harmonic Correction Term To The Angle Of Inclination (radians) (OS SIS ICD [39]) |
| >>C _{uc} | М | | BIT STRING(16) | Amplitude of the Cosine Harmonic Correction Term To The Argument Of Latitude (radians) (OS SIS ICD [39]) |

9.2.1.93a GANSS Additional Orbit Models

This IE contains information for GANSS orbit model parameters.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|--------------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Additional Orbit Models | | | | |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|---------------------------|----------|-------|-----------------------|---|
| >NAV-Keplerian Parameters | | | | Model-2 |
| >>URA Index | М | | BIT STRING(4) | SV accuracy (dimensionless) (IS-QZSS [47]) |
| >>Fit Interval Flag | M | | BIT STRING (1) | Fit interval indication (dimensionless) (IS-QZSS [47]) |
| >>t _{oe} | M | | BIT STRING(16) | Time of ephemeris (seconds) (IS-QZSS [47]) |
| >>0 | M | | BIT STRING (32) | Argument of perigee (semi-circles) (IS-QZSS [47]) |
| >>∆n | M | | BIT STRING (16) | Mean motion difference from computed value (semi-circles/sec) (IS-QZSS [47]) |
| >>M ₀ | М | | BIT STRING (32) | Mean anomaly at reference time (semi-circles) (IS-QZSS [47]) |
| >>OMEGAdot | М | | BIT STRING (24) | Rate of right ascension (semi-circles/sec) (IS-QZSS [47]) |
| >>e | М | | BIT STRING (32) | Eccentricity (dimensionless) (IS-QZSS [47]) |
| >>ldot | M | | BIT STRING (14) | Rate of inclination angle (semi-circles/sec) (IS-QZSS [47]) |
| >>sqrtA | М | | BIT STRING (32) | Square root of semi-major axis (meters ^{1/2}) (IS-QZSS [47]) |
| >>i ₀ | M | | BIT STRING (32) | Inclination angle at reference time (semi-circles) (IS-QZSS [47]) |
| >>OMEGA ₀ | M | | BIT STRING (32) | Longitude of ascending node of orbit plane at weekly epoch (semi-circles) (IS-QZSS [47]) |
| >>C _{rs} | М | | BIT STRING (16) | Amplitude of sine harmonic correction term to the orbit radius (meters) (IS-QZSS [47]) |
| >>C _{is} | М | | BIT STRING (16) | Amplitude of sine harmonic correction term to the angle of inclination (radians) (IS-QZSS [47]) |
| >>C _{us} | M | | BIT STRING (16) | Amplitude of sine harmonic correction term to the argument of latitude (radians) (IS-QZSS [47]) |
| >>C _{rc} | M | | BIT STRING (16) | Amplitude of cosine harmonic correction term to the orbit radius (meters) (IS-QZSS [47]) |
| >>C _{ic} | М | | BIT STRING (16) | Amplitude of cosine harmonic correction term to the angle of inclination (radians) (IS-QZSS [47]) |
| >>C _{uc} | М | | BIT STRING (16) | Amplitude of cosine harmonic correction term to the argument of latitude (radians) (IS-QZSS [47]) |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|--------------------------------------|----------|-------|-----------------------|--|
| >CNAV/CNAV-2 Keplerian Parameters | | | | Model-3 |
| >>t _{op} | M | | BIT STRING (11) | Data predict time of week (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>URA _{oe} Index | M | | BIT STRING (5) | SV accuracy (dimensionless) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>∆A | M | | BIT STRING (26) | Semi-major axis difference at reference time (meters) (IS-GPS-200 [43], IS- GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>A_dot | M | | BIT STRING (25) | Chane rate in semi-major axis (meters/sec) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>∆n ₀ | M | | BIT STRING (17) | Mean motion difference from computed value at reference time (semi-circles/sec) (IS-GPS- 200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>∆n ₀ _dot | M | | BIT STRING (23) | Rate of mean motion difference from computed value (semi-circles/sec ²) (IS-GPS- 200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>M _{0-n} | M | | Bit String(33) | Mean anomaly at reference time (semi-circles) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>en | М | | BIT STRING (33) | Eccentricity (dimensionless) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>\omega_n | M | | Bit String(33) | Argument of perigee (semi-circles) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>Ω _{0-n} | M | | BIT STRING (33) | Reference right ascension angle (semi-circles) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>ΔΩ_dot | М | | BIT STRING (17) | Rate of right ascension difference (semi-circles/sec) (IS-GPS- 200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>i _{o-n} | М | | BIT STRING (33) | Inclination angle at reference time (semi-circles) (IS-GPS-200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |
| >>l _{0-n} _dot | M | | BIT STRING (15) | Rate of inclination angle (semi-circles/sec) (IS-GPS- 200 [43], IS-GPS-705 [44], IS- GPS-800 [45], IS-QZSS [47]) |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|--|----------|-------|-----------------------|--|
| >>C _{is-n} | M | | BIT STRING (16) | Amplitude of sine harmonic correction term to the angle of inclination (radians) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>C _{ic-n} | M | | BIT STRING (16) | Amplitude of cosine harmonic correction term to the angle of inclination (radians) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>C _{rs-n} | M | | BIT STRING (24) | Amplitude of sine harmonic correction term to the orbit radius (meters) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>C _{rc-n} | M | | BIT STRING (24) | Amplitude of cosine harmonic correction term to the orbit radius (meters) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>C _{us-n} | M | | BIT STRING (21) | Amplitude of sine harmonic correction term to the argument of latitude (radians) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >>C _{uc-n} | М | | BIT STRING (21) | Amplitude of cosine harmonic correction term to the argument of latitude (radians) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >GLONASS Earth-Centered, Earth-fixed Parameters | | | | Model-4 |
| >>E _n | M | | BIT STRING (5) | Age of data (days) [48] |
| >>P1 | M | | BIT STRING (2) | Time interval between two adjacent values of t₀ (minutes) [48] |
| >>P2 | М | | BIT STRING (1) | Change of t _b flag (dimensionless) [48] |
| >>M | 0 | | BIT STRING (2) | Type of satellite (dimensionless) [48] |
| $\Rightarrow x_n(t_b)$ | М | | BIT STRING (27) | x-coordinate of satellite at time t _b (kilometers) [48] |
| $\Rightarrow \dot{x}_n(t_b)$ | М | | BIT STRING (24) | x-coordinate of satellite velocity at time t _b (kilometers/sec) [48] |
| $\Rightarrow \ddot{x}_n(t_b)$ | М | | BIT STRING (5) | x-coordinate of satellite acceleration at time t _b (kilometers/sec ²) [48] |
| $\Rightarrow y_n(t_b)$ | М | | BIT STRING (27) | y-coordinate of satellite at time t _b (kilometers) [48] |
| $\Rightarrow \dot{y}_n(t_b)$ | М | | BIT STRING (24) | y-coordinate of satellite velocity at time t _b (kilometers/sec) [48] |
| $\Rightarrow \ddot{y}_n(t_b)$ | М | | BIT STRING (5) | y-coordinate of satellite acceleration at time t _b (kilometers/sec ²) [48] |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|--|------------------|-------|-----------------------|---|
| $\Rightarrow z_n(t_b)$ | M | | BIT STRING (27) | z-coordinate of satellite at time t _b (kilometers) [48] |
| $\Rightarrow \dot{z}_n(t_b)$ | M | | BIT STRING (24) | z-coordinate of satellite velocity at time t _b (kilometers/sec) [48] |
| $\Rightarrow \ddot{z}_n(t_b)$ | M | | BIT STRING (5) | z-coordinate of satellite acceleration at time t _b (kilometers/sec ²) [48] |
| >SBAS Earth-Centered, Earth- fixed Parameters | | | | Model-5 |
| >>t ₀ | C-ClockMo del | | BIT STRING (13) | Time of applicability (seconds) (DTFA01-96-C-00025 [46]) |
| >>Accuracy | М | | BIT STRING (4) | (dimensionless) (DTFA01-96- C-00025 [46]) |
| >>X _G | M | | BIT STRING (30) | (meters) (DTFA01-96-C-00025 [46]) |
| >>Y _G | М | | BIT STRING (30) | (meters) (DTFA01-96-C-00025 [46]) |
| >>Z _G | М | | BIT STRING (25) | (meters) (DTFA01-96-C-00025 [46]) |
| >>X _G Rate-of-Change | М | | BIT STRING (17) | (meters/sec) (DTFA01-96-C- 00025 [46]) |
| >>Y _G Rate-of-Change | М | | BIT STRING (17) | (meters/sec) (DTFA01-96-C- 00025 [46]) |
| >>Z _G Rate-of-Change | М | | BIT STRING (18) | (meters/sec) (DTFA01-96-C- 00025 [46]) |
| >>X _G Acceleration | М | | BIT STRING (10) | (meters/sec ²) (DTFA01-96-C- 00025 [46]) |
| >>Y _G Acceleration | М | | BIT STRING (10) | meters/sec ²) (DTFA01-96-C- 00025 [46]) |
| >>Z _G Acceleration | М | | BIT STRING (10) | meters/sec ²) (DTFA01-96-C- 00025 [46]) |

| Condition | Explanation |
|------------|---|
| ClockModel | This IE shall be present if 'SBAS Earth-Centered, |
| | Earth-fixed Parameters' (Model-5) in IE GANSS |
| | Additional Clock Models is not included in GANSS |
| | Additional Navigation Models IE. |

9.2.1.94 GANSS Real Time Integrity

This IE contains parameters that describe the real-time status of the GANSS constellation.

| IE/Group name | Presence | Range | IE Type and | Semantics description |
|-----------------------|----------|---|-------------|----------------------------|
| | | | Reference | |
| Satellite Information | | 1 to | | |
| | | <maxgan< td=""><td></td><td></td></maxgan<> | | |
| | | SSSat> | | |
| >Bad GANSS Sat ID | M | | INTEGER(0. | Defined in TS 25.331 [18]. |
| | | | .63) | |
| >Bad GANSS Signal ID | 0 | | BIT | Coded as defined in TS |
| _ | | | STRING(8) | 25.331 [18]. |

| Range Bound | Explanation |
|-------------|---|
| maxGANSSSat | Maximum number of satellites for which data is included in the IE |

9.2.1.95 GANSS Receiver Geographical Position (GANSS RX Pos)

The GANSS Receiver Geographical Position IE is used to identify the geographical coordinates of a GANSS receiver relevant for a certain Information Exchange Object.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--|---|
| Latitude Sign | М | | ENUMERATED (North, South) | |
| Degrees of Latitude | M | | INTEGER (02 ³¹ -1) | The IE value (N) is derived by this formula: N≤2 ³¹ X /90 < N+1 X being the latitude in degree (0° 90°) |
| Degrees of Longitude | M | | INTEGER (-2 ³¹ 2 ³¹ -1) | The IE value (N) is derived by this formula: N≤2 ³² X /360 < N+1 X being the longitude in degree (-180°+180°) |
| Direction of Altitude | M | | ENUMERATED (Height, Depth) | |
| Altitude | M | | INTEGER (02 ¹⁵ -1) | The relation between the value (N) and the altitude (a) in meters it describes is $N \le a < N+1$, except for $N=2^{15}-1$ for which the range is extended to include all greater values of (a). |

9.2.1.96 GANSS Time Model

The *GANSS Time Model* IE contains a set of parameters needed to relate GANSS time to selected time reference indicated by GNSS_TO_ID.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|------------------------------------|----------|-------|---|---|
| GANSS Time Model Reference Time | М | | INTEGER(0. . 37799) | GANSS reference time (modulo 1 week) in seconds. The scale factor is 2 ⁴ |
| T _{A0} | M | | INTEGER(- 2147483648. .2147483647 | Seconds, scale factor 2 ⁻³⁵ |
| T _{A1} | 0 | | INTEGER(- 838860883 88607) | sec/sec, scale factor 2 ⁻⁵¹ |
| T _{A2} | 0 | | INTEGER(- 6463) | sec/sec ² , scale factor 2 ⁻⁶⁸ |
| GNSS_TO_ID | М | | ENUMERAT ED(GPS,, Galileo, QZSS, GLONASS) | |
| Week Number | 0 | | INTEGER(0. .8191) | Reference week of GANSS Time Model |

9.2.1.96a GANSS Additional Time Models

The GANSS Additional Time Models IE contains a set of parameters needed to relate GANSS time to selected time references.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|----------------------|----------|----------------------------------|--------------------------|-----------------------|
| GNSS-GNSS Time Model | | 1 <maxga NSS-1></maxga | | |
| >GANSS Time Model | | | 9.2.1.96 | |

| Range Bound | Explanation |
|-------------|--|
| maxGANSS-1 | Maximum number of GANSS systems for which data is included in this IE. |

9.2.1.97 GANSS UTC Model

The *GANSS UTC Model* IE contains a set of parameters needed to relate GANSS time to Universal Time Coordinate (UTC).

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|-------------------|----------|-------|-----------------------|---------------------------|
| A ₁ | М | | BIT STRING(24) | sec/sec (OS SIS ICD [39]) |
| A ₀ | М | | BIT STRING(32) | seconds (OS SIS ICD [39]) |
| tot | М | | BIT STRING(8) | seconds (OS SIS ICD [39]) |
| WNt | М | | BIT STRING(8) | weeks (OS SIS ICD [39]) |
| Δt_{LS} | М | | BIT STRING(8) | seconds (OS SIS ICD [39]) |
| WN _{LSF} | М | | BIT STRING(8) | weeks (OS SIS ICD [39]) |
| DN | М | | BIT STRING(8) | days (OS SIS ICD [39]) |
| Δt_{LSF} | M | | BIT STRING(8) | seconds (OS SIS ICD [39]) |

9.2.1.97a GANSS Additional UTC Models

The *GANSS Additional UTC Models* IE contains several sets of parameters needed to relate GANSS time to Universal Time Coordinate (UTC), as defined in [43,44,45,46,47,48].

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|------------------------------|----------|-------|----------------------------------|--|
| CHOICE Additional UTC Models | | | | |
| >Model Set 1 | | | | |
| >A _{0-n} | M | | BIT STRING(16) | Bias coefficient of GNSS time scale relative to UTC time scale (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >A _{1-n} | M | | BIT STRING (13) | Drift coefficient of GNSS time scale relative to UTC time scale (sec/sec) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >A _{2-n} | М | | BIT STRING (7) | Drift rate correction coefficient of GNSS time scale relative to UTC time scale (sec/sec ²) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| $>\Delta t_{LS}$ | М | | BIT STRING (8) | Current or past leap second count (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >t _{ot} | М | | BIT STRING (16) | Time data reference time of week (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >WN _{ot} | М | | BIT STRING (13) | Time data reference week number (weeks) (IS-GPS-200 [43], IS- GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >WN _{LSF} | М | | BIT STRING (8) | Leap second reference week number (weeks) (IS-GPS-200 [43], IS- GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >DN | М | | BIT STRING (4) | Leap second reference day number (days) (IS-GPS-200 [43], IS- GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >∆t _{LSF} | M | | BIT STRING (8) | Current or future leap second count (seconds) (IS-GPS-200 [43], IS-GPS-705 [44], IS-GPS-800 [45], IS-QZSS [47]) |
| >Model Set 2 | | | | |
| >N ^A | М | | BIT STRING (11) | Callendar day number within four-year period beginning since the leap year (days) [48] |
| >T _c | M | | BIT STRING (32) | GLONASS time scale correction to UTC(SU) (seconds) [48] |
| >Delta UT1 | 0 | | | |
| >>B1 >>B2 | M | | BIT STRING (11) BIT STRING | Coefficient to determine ΔUT1 (seconds) [48] Coefficient to determine ΔUT1 |
| >>b2 >KP | Μ Ο | | (10) BIT STRING | (seconds/msd) [48] Notification of expected leap |
| >N | | | (2) | second correction |

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|--------------------|----------|-------|-----------------------|---|
| | | | | (dimensionless) [48] |
| >Model Set 3 | | | | |
| >A _{1WNT} | M | | BIT STRING (24) | sec/sec (DTFA01-96-C-00025 [46], Message Type 12) |
| >A _{0WNT} | М | | BIT STRING (32) | seconds (DTFA01-96-C-00025 [46], Message Type 12) |
| >t _{ot} | М | | BIT STRING (8) | seconds (DTFA01-96-C-00025 [46], Message Type 12) |
| >WN _t | М | | BIT STRING (8) | weeks (DTFA01-96-C-00025 [46], Message Type 12) |
| >∆t _{LS} | М | | BIT STRING (8) | seconds (DTFA01-96-C-00025 [46], Message Type 12) |
| >WN _{LSF} | М | | BIT STRING (8) | weeks (DTFA01-96-C-00025 [46], Message Type 12) |
| >DN | M | | BIT STRING (8) | days (DTFA01-96-C-00025 [46], Message Type 12) |
| $> \Delta t_{LSF}$ | M | | BIT STRING (8) | seconds (DTFA01-96-C-00025 [46], Message Type 12) |
| >UTC Standard ID | M | | BIT STRING (3) | dimensionless Coded as defined in TS 25.331 [18] |

9.2.1.98 T_{UTRAN-GANSS} Accuracy Class

The $T_{UTRAN-GANSS}$ Accuracy Class IE indicates the accuracy class of the UTRAN GANSS Timing of Cell Frames for UE Positioning measurement.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---|----------|-------|-------------------|--------------------------------|
| | | | Reference | |
| T _{UTRAN-GANSS} Accuracy Class | | | ENUMERATED (| More information about Tutran- |
| | | | Accuracy Class A, | GANSS Measurement Accuracy |
| | | | Accuracy Class B, | Class is included in TS 25.133 |
| | | | Accuracy Class C, | [22] and TS 25.123 [23]. |
| | | |) | |

9.2.1.99 T_{UTRAN-GANSS} Measurement Threshold Information

The $T_{UTRAN-GANSS}$ Measurement Threshold Information IE defines the related thresholds for UTRAN GANSS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|---|
| T _{UTRAN-GANSS} Change Limit | 0 | | INTEGER (1256) | Change of T _{UTRAN-GANSS} value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip. |
| Predicted T _{UTRAN-GANSS} Deviation Limit | 0 | | INTEGER (1256) | Deviation of the predicated T _{UTRAN-GANSS} from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip. |

9.2.1.100 T_{UTRAN-GANSS} Measurement Value Information

The $T_{UTRAN\text{-}GANSS}$ Measurement Value Information IE indicates the measurement results related to the UTRAN GANSS Timing of Cell Frames for UE Positioning measurements.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|------------------------------|--|-------------|----------------------|
| Tutran-ganss | M | | | Indicates the UTRAN GANSS Timing of Cell Frames for UE Positioning. According to mapping in TS 25.123 [23]; significant values range from 0 to 371589119999 | - | |
| >MS | М | | INTEGER(0 16383) | 99. Most Significant Part | _ | |
| >LS | М | | INTEGER(0 42949672 95) | Least Significant Part | _ | |
| Tutran-ganss Quality | 0 | | INTEGER(0 255) | Indicates the standard deviation (std) of the T_{UTRAN} - GANSS measurements in 1/16 chip. T_{UTRAN} - GANSS Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T_{UTRAN} - GANSS Value, where x is the reported T_{UTRAN} - GANSS Value and μ = $E[x]$ is the expectation value of x. | _ | |
| Tutran-ganss Drift Rate | M | | INTEGER(- 5050) | Indicates the T _{UTRAN-GANSS} drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GANSS clock. | _ | |
| T _{UTRAN-GANSS} Drift Rate Quality | 0 | | INTEGER(050) | Indicates the standard deviation (std) of the T _{UTRAN-GANSS} drift rate measurements in 1/256 chip per second. T _{UTRAN-GANSS} Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T _{UTRAN-GANSS} Drift Rate, where x is the reported T _{UTRAN-UTRAN} | _ | |

| | | | GANSS Drift Rate and $\mu = E[x]$ is the expectation value of x. | | |
|---------------|---|------------|---|-----|--------|
| GANSS Time ID | 0 | 9.2.1.104a | Absence of this IE means Galileo system time. | YES | ignore |

9.2.1.101 GANSS Reference Time

Void.

9.2.1.102 HARQ Memory Partitioning

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|------------------------------|--|-------------|-------------------------|
| CHOICE HARQ Memory Partitioning | | 1 | | | _ | |
| >Implicit | | | | | | |
| >>Number of Processes | M | | INTEGER (18,12,1 4,16) | For HARQ process IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits (TS 25.306 [33]) is partitioned equally between all HARQ processes according to the rules in TS 25.331 [18]. | _ | |
| >Explicit | | | | | | |
| >>HARQ Memory Partitioning Infomation | | 1 <maxno ofHARQpr ocesses></maxno | | The first instance of the parameter corresponds to HARQ process with identifier 0, the second instance to HARQ process with identifier 1, and so on. | - | |
| >>>Process Memory Size | М | | 9.2.1.49D | See TS 25.331 [18] | - | |
| >>HARQ Memory Partitioning Information Extension For MIMO | | 0, 4, 6 or 8 | | For FDD and 1.28Mcps TDD only The 1 st instance corresponds to HARQ process with identifier set to 'maxnoofHARQpr ocesses', the 2 nd instance to HARQ process with identifier set to 'maxnoofHARQpr ocesses+1', and so on. | GLOBAL | ignore |
| >>>Process Memory Size | М | | 9.2.1.49D | See TS 25.331 [18] | - | |

| Range Bound | Explanation |
|----------------------|---|
| MaxnoofHARQprocesses | Maximum number of HARQ processes for one UE [FDD and |
| • | 1.28Mcps TDD- per stream (the maximum number of HARQ |
| | processes per UE is 2 * MaxnoofHARQprocesses in dual stream |
| | transmission mode)] |

9.2.1.103 GANSS Data Bit Assistance

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|---|--------------------------|--|
| GANSS TOD | M | | INTEGER(059,) | Refererence time (modulo 1 minute) of the first bit of the data in <i>Data Bits</i> IE, in seconds. |
| Data Bit Assistance | | 1 <maxgans< td=""><td></td><td></td></maxgans<> | | |
| List | | SSat> | | |
| >Sat ID | M | | INTEGER(063) | Defined in TS 25.331 [18]. |
| >Data Bit Assistance | | 1 <maxsgnty< td=""><td></td><td></td></maxsgnty<> | | |
| Sgn List | | pe> | | |
| >>GANSS Signal ID | M | | 9.2.1.106 | |
| >>Data Bits | М | | BIT STRING(11024) | Raw data bits as transmitted from a specific satellite at the time indicated by GANSS_TOD. See TS 25.331 [18]. |

| Range Bound Explanation | | | |
|-------------------------|---|--|--|
| maxGANSSSat | Maximum number of satellites for which data is included in the IE | | |
| maxSgnType | Maximum number of GANSS signals included in the IE | | |

9.2.1.104 GANSS ID

This IE defines a particular GANSS.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|--|
| GANSS ID | M | | INTEGER(07 ,) | Defines the GANSS and is coded as defined in TS 25.331 [18]. |

9.2.1.104a GANSS Time ID

This IE defines a particular GANSS system time.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| GANSS Time ID | М | | INTEGER(07 ,) | Defines the GANSS system time for the UTRAN GANSS Timing of Cell Frames for UE Positioning. Coded as defined in TS 25.331 [18], subclause 10.3.7.93a. |

9.2.1.105 GANSS Navigation Model And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.

| IE/Group name | Presence | Range | IE Type and | Semantics description |
|---------------|----------|-------|-------------|-----------------------|
| | | | Reference | |

| GANSS Transmission Time | M | | 9.2.1.107 | GANSS Time when the Navigation model has been retrieved |
|--------------------------|---|--|----------------------|--|
| Non-Broadcast Indication | 0 | | ENUMERAT ED(true) | If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1 |
| Satellite Information | | 1 to <maxgan SSSat></maxgan | | |
| >Sat ID | M | | INTEGER(063) | Defined in TS 25.331 [18]. |
| >SV Health | M | | BIT STRING(5) | Coded as defined in OS SIS ICD [39] |
| >IOD | M | | BIT STRING(10) | |
| >GANSS Clock Model | M | | 9.2.1.90 | |
| >GANSS Orbit Model | M | | 9.2.1.93 | |

NOTE 1: The Non-Broadcast Indication allows to inform that the navigation model is not bit-to-bit the one broadcast by the satellite. If it is set to 1, the UE is informed that techniques such as data wiping off applied to the navigation model may not work for instance.

| Condition | Explanation |
|-------------|---|
| Orbit model | The IE shall be present if the GANSS Orbit Model IE |
| | indicates 'Keplerian Parameters'. |

| Range bound | Explanation |
|-------------|--|
| maxGANSSSat | Maximum number of satellites for which data is included in the IE. |

9.2.1.105a GANSS Additional Navigation Models And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|-----------------------------------|----------|-----------------------------------|--|---|
| GANSS Transmission Time | M | | 9.2.1.107 | GANSS Time when the Navigation model has been retrieved |
| Non-Broadcast Indication | 0 | | ENUMERAT ED(true) | If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1 in 9.2.1.105. |
| Satellite Information | | 1 <maxga NSSSat></maxga | | |
| >Sat ID | М | | INTEGER(063) | Defined in TS 25.331 [18]. |
| >SV Health | М | | BIT STRING(6) | Coded as defined in TS 25.331 [18]. |
| >IOD | М | | BIT STRING(11) | Coded as defined in TS 25.331 [18]. |
| >GANSS Additional Clock Models | M | | GANSS Addtional Clock Models 9.2.1.90a | |
| >GANSS Additional Orbit Models | М | | GANSS Additional Orbit Models 9.2.1.93a | |

| Range bound | Explanation | | | |
|-------------|---|--|--|--|
| maxGANSSSat | Maximum number of satellites for which data is included in this IE. | | | |
| | The value of maxGANSSSat is 64 | | | |

9.2.1.106 GANSS Signal ID

This IE defines a specific signal within a particular GANSS.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-------------------------------------|
| GANSS Signal ID | M | | INTEGER(07,) | Coded as defined in TS 25.331 [18]. |

9.2.1.107 GANSS Transmission Time

This IE indicates the GANSS Transmission Time

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|---------------|----------|-------|-----------------------|---|
| GANSS Day | 0 | | INTEGER(0 8191) | The sequential number of days from the origin of the GNSS system time (indicated by the GANSS_ID given in the Requested Data Value IE) modulo 8192 days (about 22 years). |
| GANSS TOD | M | | INTEGER(0 86399) | GANSS Time of Day in seconds |

9.2.1.107a GANSS Earth Orientation Parameters

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|-----------------------|---|
| t _{EOP} | M | | BIT STRING(16) | EOP data reference time (seconds) (IS-GPS-200 [43]) |
| PM_X | М | | BIT STRING (21) | X-axis polar motion value at reference time (arc-seconds) (IS-GPS-200 [43]) |
| PM_X_dot | М | | BIT STRING (15) | X-axis polar motion drift at reference time (arc-seconds/day) (IS-GPS- 200 [43]) |
| PM_Y | М | | BIT STRING (21) | Y-axis polar motion value at reference time (arc-seconds) (IS-GPS-200 [43]) |
| PM_Y_dot | М | | BIT STRING (15) | Y-axis polar motion drift at reference time (arc-seconds/day) (IS-GPS- 200 [43]) |
| ΔUT1 | М | | BIT STRING (31) | UT1-UTC difference at reference time (seconds) (IS-GPS-200 [43]) |
| ΔUT1_dot | М | | BIT STRING (19) | Rate of UT1-UTC difference at reference time (seconds/day) (IS-GPS-200 [43]) |

9.2.1.107b SBAS ID

This IE defines a specific SBAS.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--|-----------------------|
| SBAS ID | М | | ENUMERATED(WAAS, EGNOS, MSAS, GAGAN,) | |

9.2.1.107c GANSS Auxiliary Information

| IE/Group name | Presence | Range | IE Type and Reference | Semantics description |
|----------------------|----------|---------------------------------------|-----------------------|--|
| CHOICE GANSS-ID | | | | |
| >GANSS-ID-1 | | | | This choice may only be present if GANSS ID indicated 'Modernized GPS' |
| >>Aux Info List | | 1 <maxgan SSSat></maxgan | | |
| >>>Sat ID | M | | INTEGER(063) | Defined in TS 25.331 [18]. |
| >>>Signals Available | M | | BIT STRING(8) | Coded as defined in TS 25.331 [18]. |
| >GANSS-ID-3 | | | | This choice may be present if GANSS ID indicated 'GLONASS' |
| >>Aux Info List | | 1 <maxgan SSSat></maxgan | | |
| >>>Sat ID | M | | INTEGER(063) | Defined in TS 25.331 [18]. |
| >>>Signals Available | M | | BIT STRING(8) | Coded as defined in TS 25.331 [18]. |
| >>>Channel Number | М | | INTEGER (-713) | This field indicates the GLONASS carrier frequency number of the satellite identified by <i>Sat ID</i> , as defined in [48]. |

| Range Bound | Explanation | | | | | |
|-------------|---|--|--|--|--|--|
| maxGANSSSat | Maximum number of GANSS satellites for which data is included in this IE. | | | | | |

9.2.1.107d Additional Ionospheric Model Request

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|-----------------------|--|
| Additional Ionospheric Model Request | M | | BIT STRING(2) | Data ID for GANSS Additional lonospheric Model as defined in TS 25.331 [18], subclause 10.3.7.92b. |

9.2.1.107e Earth Orientation Parameters Request

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|-----------------------|-----------------------|
| Earth Orientation Parameters Request | М | | BOOLEAN | True means requested. |

9.2.1.107f GANSS Additional Navigation Models And Time Recovery Request

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------------|----------|-------|-------------|-----------------------|
| | | | Reference | |
| GANSS Additional | М | | BOOLEAN | True means requested. |
| Navigation Models And Time | | | | |
| Recovery Request | | | | |

9.2.1.107g GANSS Additional UTC Models Request

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------------|----------|-------|-----------------------|-----------------------|
| GANSS Additional UTC Models Request | М | | BOOLEAN | True means requested. |

9.2.1.107h GANSS Auxiliary Information Request

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|-----------------------|-----------------------|
| GANSS Auxiliary Information | М | | BOOLEAN | True means requested. |
| Request | | | | |

9.2.1.108 IP Multicast Indication

The *IP Multicast Indication* IE indicates the IP multicast group information dedicated to an MBMS service and the CFN Offset, defined as the offset between MFN and CFN for a FACH. When Node B receives such an indication, if supported, it may join the corresponding IP multicast group. When Node B receives data frame from this IP multicast group, it shall consider the value of the CFN field in the data frame as MFN and calculate the actual CFN for the concerned FACH according to following equation:

 $CFN = (MFN - CFN Offset) \mod 256.$

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|--|
| Transport Layer Address | М | | 9.2.1.63 | An MBMS service corresponds to a dedicated IP multicast address. |
| Binding ID | M | | 9.2.1.4 | Indicating multicast port. |
| CFN Offset | M | | INTEGER (0255) | |

9.2.1.109 IP Multicast Data Bearer Indication

The *IP Multicast Data Bearer Indication* IE indicates whether the Node B is ready for receiving concerned MBMS service data through IP multicast transport bearer.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------------|----------|-------|-----------------------|--|
| IP Multicast Data Bearer Indication | | | BOOLEAN | True: IP multicast data bearer is used. False: IP multicast data bearer is not used. |

9.2.1.110 SixtyfourQAM DL Capability

This parameter defines the SixtyfourQAM downlink capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|---|-----------------------|
| SixtyfourQAM DL Capability | | | ENUMERATED (SixtyfourQAM DL Capable, SixtyfourQAM DL Non-Capable) | |

9.2.1.111 FACH Measurement Occasion Cycle Length Coefficient

The FACH Measurement Occasion Cycle Length Coefficient IE provides information used for MAC-hs scheduling decision for MAC-c PDU in Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|-----------------------|
| FACH Measurement Occasion Cycle Length Coefficient | | | INTEGER (112) | |

9.2.1.112 MAC-ehs Reset Timer

The MAC-ehs Reset Timer IE is used as Reset Timer(Treset) described in ref 3GPP TS 25.321 [32] subclause 11.6.4.5.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------------|----------|-------|--------------------------|---|
| MAC-ehs Reset Timer | | | ENUMERATED (1, 2, 3, 4,) | Timer in multiples of T1 values (milliseconds). Used when MAC-ehs reordering queue is reset in CELL_FACH and CELL_PCH |

9.2.1.113 Paging MAC Flow ID

Paging MAC Flow ID is the unique identifier for one Paging MAC flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| Paging MAC Flow ID | | | INTEGER (03) | |

9.2.1.114 Enhanced FACH Capability

This parameter defines the Enhanced FACH capability for a Local Cell. [1.28Mcps TDD - This parameter defines the Enhanced FACH capability for both uplink and downlink]

| IE/Group Name | Presen ce | Range | IE Type and Reference | Semantics Description |
|--------------------------|--------------|-------|--|-----------------------|
| Enhanced FACH Capability | | | ENUMERATED (Enhanced FACH Capable, Enhanced FACH Non-Capable) | |

9.2.1.115 Enhanced PCH Capability

This parameter defines the Enhanced PCH capability for a Local Cell.

| IE/Group Name | Presen ce | Range | IE Type and Reference | Semantics Description |
|-------------------------|--------------|-------|--|-----------------------|
| Enhanced PCH Capability | | | ENUMERATED (Enhanced PCH Capable, Enhanced PCH Non-Capable) | |

9.2.1.116 Enhanced UE DRX Capability

This parameter defines the Enhanced UE DRX capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|---|-----------------------|
| Enhanced UE DRX Capability | | | ENUMERATED (Enhanced UE DRX Capable, Enhanced UE DRX non Capable) | |

9.2.1.117 Priority Queue Information for Enhanced FACH/PCH

The *Priority Queue Information for Enhanced FACH/PCH* IE provides information associated to HSDPA Priority Queue used for Enhanced FACH and/or Enhanced PCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|---------------------------------------|---|
| Priority Queue ID | M | | 9.2.1.49C | |
| Scheduling Priority Indicator | M | | 9.2.1.53H | |
| T1 | M | | 9.2.1.56a | |
| MAC-ehs Reset Timer | M | | 9.2.1.112 | |
| Discard Timer | 0 | | 9.2.1.24E | Shall be ignored in case of Enhanced PCH |
| MAC-hs Window Size | M | | 9.2.1.38B | |
| Maximum MAC-c PDU Size | M | | MAC PDU Size Extended 9.2.1.38C | |

9.2.1.118 MIMO Capability

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-----------------------|
| MIMO Capability | | | ENUMERATED | |
| | | | (MIMO Capable, | |
| | | | MIMO Non-Capable) | |

9.2.1.119 MIMO Activation Indicator

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| MIMO Activation Indicator | M | | NULL | |

9.2.1.120 MIMO Mode Indicator

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| MIMO Mode Indicator | | | ENUMERATED | |
| | | | (Activate, | |
| | | | Deactivate) | |

9.2.1.121 SixtyfourQAM DL and MIMO Combined Capability

This parameter defines the SixtyfourQAM downlink and MIMO combined capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------------|----------|-------|-------------------|-----------------------|
| | | | Reference | |
| SixtyfourQAM DL and MIMO | | | ENUMERATED | |
| Combined Capability | | | (SixtyfourQAM DL | |
| | | | and MIMO | |
| | | | Combined Capable, | |
| | | | SixtyfourQAM DL | |
| | | | and MIMO | |
| | | | Combined Non- | |
| | | | Capable) | |

9.2.1.122 DL RLC PDU Size Format

The DL RLC PDU Size Format IE indicates the downlink RLC PDU size format used for a Priority Queue.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|-----------------------------------|-----------------------|
| DL RLC PDU Size Format | | | ENUMERATED (Fixed RLC PDU | |
| | | | size, Flexible RLC PDU size ,) | |

9.2.1.123 UE Aggregate Maximum Bit Rate

The UE *Aggregate Maximum Bitrate* IE is applicable for all Non-GBR bearers per UE which is defined for the Downlink and the Uplink direction and provided by the CN to the RNC. At least one of the *UE Aggregate Maximum Bit Rate Downlink* IE and *UE Aggregate Maximum Bit Rate Uplink* IE shall be included in the *UE Aggregate Maximum Bit Rate* IE.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|--|----------|-------|---------------------------------|--|
| UE Aggregate Maximum Bit Rate | | | | Desc: Applicable for non-GBR bearers |
| >UE Aggregate Maximum Bit Rate Downlink | 0 | | INTEGER (11,000,00 0,000) | Desc.: This IE indicates the aggregated maximum number of bits delivered by UTRAN and to UTRAN in DL within a period of time, divided by the duration of the period for all non-GBR bearers in one UE. The MBR of non-GBR bearers shall be ignored if this IE present. |
| >UE Aggregate Maximum Bit Rate Uplink | 0 | | INTEGER (11,000,00 0,000) | Desc.: This IE indicates the aggregated maximum number of bits delivered by UTRAN and to UTRAN in UL within a period of time, divided by the duration of the period for all non-GBR bearers in one UE. The MBR of non-GBR bearers shall be ignored if this IE present. |

9.2.1.124 Dormant Mode Indicator

The *Dormant Mode Indicator* IE controls the dormant mode for the cell. In dormant mode there is no power transmitted in the cell, but the cell remains existing in the NodeB. When *Dormant Mode Indicator* IE = "Enter Dormant Mode" the NodeB is requested to reconfigure the cell to dormant mode. When *Dormant Mode Indicator* IE = "Leave Dormant Mode" the NodeB is requested to take the cell into normal service.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Dormant Mode Indicator | | | ENUMERATED | |
| | | | (Enter Dormant | |
| | | | Mode, Leave | |
| | | | Dormant Mode,) | |

9.2.1.125 DGNSS Validity Period

This IE defines the validity period of the GNSS differential corrections provided in DGPS corrections and DGANSS corrections IEs

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--|----------|-------|--|---|
| UDRE Growth Rate | M | | Reference Enumerated(UDRE growth 1.5, UDRE growth 2, UDRE growth 4, | This field provides an estimate of the growth rate of uncertainty (1-σ) in the corrections. The UDRE at time value specified in the <i>Time of</i> |
| | | | UDRE growth 6, UDRE growth 8, UDRE growth 10, UDRE growth 12, UDRE growth 16) | Validity for UDRE Growth Rate field is the value of this field times the value of UDRE provided in DGPS Corrections or DGANSS corrections IE (TS 25.215 [4]). |
| Time of Validity for UDRE Growth Rate | М | | Enumerated(val20sec, val40sec, val80sec, val160sec, val320sec, val640sec, val1280sec, val2560sec) | This field specifies the time when the <i>UDRE Growth Rate</i> field applies (TS 25.215 [4]). |

9.2.2 FDD specific parameters

9.2.2.a ACK-NACK Repetition Factor

The ACK-NACK Repetiton Factor IE indicates the number of consecutive repetitions of the ACK and NACK.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| ACK-NACK Repetition Factor | | | INTEGER (14,) | Step: 1 |

9.2.2.b ACK Power Offset

The ACK Power Offset IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ ACK information and the associated DPCCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|---|
| ACK Power Offset | | | INTEGER (08,) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1. |

9.2.2.A Active Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence activation. For details see ref. TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|------------------------------|--------------------------|--|
| CM Configuration Change CFN | M | | CFN 9.2.1.7 | |
| Transmission Gap Pattern Sequence Status | | 0 <maxt GPS></maxt | | |
| >TGPS Identifier | M | | INTEGER (1maxTGPS) | If the group is not present, none of the pattern sequences are activated. References an already defined sequence. |
| >TGPRC | M | | INTEGER (0511) | The number of transmission gap patterns within the Transmission Gap Pattern Sequence. "0"=Infinity |
| >TGCFN | M | | CFN 9.2.1.7 | Connection Frame Number of the first frame of the first pattern 1 within the Transmission Gap Pattern Sequence. |

| Range Bound | Explanation | | |
|-------------|--|--|--|
| maxTGPS | Maximum number of active pattern sequences. Value 6. | | |

9.2.2.B Adjustment Period

The Adjustment Period IE defines the period to be used for power balancing.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Adjustment Period | | | INTEGER (1256) | Unit: Frames |

9.2.2.C Adjustment Ratio

The Adjustment Ratio IE (Radj) defines the convergence rate used for the associated Adjustment Period.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|-----------------------|
| Adjustment Ratio | | | INTEGER (0100) | Unit: None |
| | | | | Range: 01 |
| | | | | Step: 0.01 |

9.2.2.D AICH Power

The AICH Power IE indicates a power level (measured as the power per transmitted acquisition indicator when several AIs are transmitted in parallel) relative to the primary CPICH power configured in a cell. If Transmit Diversity is applied to the AICH, the AICH Power IE indicates the power offset between the linear sum of the power for the AICH on all branches and the Primary CPICH power configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| AICH Power | | | INTEGER (-22+5) | Unit: dB |
| | | | | Range: -22 +5 dB |
| | | | | Step: 1 dB |

9.2.2.1 AICH Transmission Timing

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------------|----------|-------|-------------|-----------------------------|
| | | | Reference | |
| AICH Transmission Timing | | | ENUMERATED | See parameter |
| | | | (0, 1) | AICH_Transmission_Timing in |
| | | | | ref. TS 25.211 [7]. |

9.2.2.1A AP Preamble Signature

Void.

9.2.2.1B AP Sub Channel Number

Void.

9.2.2.1Ba Best Cell Portions

Best Cell Portions IE indicates the best received cell portions and their SIR values when Cell Portions are defined in the cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|---|--------------------------|--------------------------------|
| Best Cell Portions | | 1 <maxno< th=""><th></th><th></th></maxno<> | | |
| | | ofBestCell | | |
| | | Portions> | | |
| >Cell Portion ID | M | | 9.2.2.1Ca | |
| >SIR Value | M | | INTEGER (063) | According to mapping in TS |
| | | | | 25.133 [22] and TS 25.123 [23] |

| Range Bound | Explanation |
|-------------------------|--|
| maxnoofBestCellPortions | Maximum number of reported Best Received Cell Portions |

9.2.2.1Bb Bundling Mode Indicator

The Bundling Mode Indicator indicates whether the bundling shall be done or shall not be done for Iub.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|------------------------------|--|
| Bundling Mode Indicator | | | ENUMERATED (Bundling, No | The value "Bundling" is applicable only when E-TTI |
| | | | bundling) | indicates "2ms". |

9.2.2.1C CD Sub Channel Numbers

Void.

9.2.2.1Ca Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See TS 25.215 [4].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-----------------------|
| Cell Portion ID | | | INTEGER (063) | |

9.2.2.1D Channel Assignment Indication

Void.

9.2.2.2 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip offset is used as offset relative to the Primary CPICH timing for the DL DPCH or for the F-DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Chip Offset | | | INTEGER (038399) | Unit: chips |

9.2.2.2A Closed Loop Timing Adjustment Mode

Indicates when the phase/amplitude adjustment is performed in the DL in relation to the receipt of the UL feedback command in case of closed loop mode transmit diversity on DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|-----------------------|-----------------------------|
| Closed Loop Timing | | | ENUMERATED (| According to ref. TS 25.214 |
| Adjustment Mode | | | Offset1, | [10] subclause 7.1: |
| | | | Offset2, | "Offset1" = slot(j+1)mod15 |
| | | |) | "Offset2" = slot(i+2)mod15 |

9.2.2.3 Common Channels Capacity Consumption Law

Void.

9.2.2.3A Compressed Mode Deactivation Flag

The Compressed Mode Deactivation Flag indicates whether Compressed Mode shall be deactivated or not in the new RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Compressed Mode | | | ENUMERATED (| |
| Deactivation Flag | | | Deactivate, | |
| | | | Maintain Active) | |

9.2.2.4 Compressed Mode Method

Void.

9.2.2.4A CPCH Allowed Total Rate

Void.

9.2.2.4B CPCH Scrambling Code Number

Void.

9.2.2.4C CPCH UL DPCCH Slot Format

Void.

9.2.2.4Ca CQI Power Offset

The *CQI Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slots carrying CQI information and the associated DPCCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|---|
| CQI Power Offset | | | INTEGER (08,) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1. |

9.2.2.4Cb CQI Repetition Factor

The CQI Repetiton Factor IE indicates the number of consecutive repetitions of the CQI.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--------------------------|-----------------------|
| CQI Repetition Factor | | | INTEGER (14,) | Step: 1 |

9.2.2.4D DCH FDD Information

The *DCH FDD Information* IE provides information for DCHs to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|-----------------------------------|-----------------------------|--------------------------|-------------|-------------------------|
| DCH FDD Information | | 1 <maxno ofDCHs></maxno | | | _ | |
| >Payload CRC Presence Indicator | M | | 9.2.1.49 | | _ | |
| >UL FP Mode | M | | 9.2.1.66 | | _ | |
| >ToAWS | М | | 9.2.1.61 | | _ | |
| >ToAWE | M | | 9.2.1.60 | | _ | |
| >DCH Specific Info | | 1 <maxno ofDCHs></maxno | | | _ | |
| >>DCH ID | M | | 9.2.1.20 | | _ | |
| >>Transport Format Set | M | | 9.2.1.59 | For UL | _ | |
| >>Transport Format Set | М | | 9.2.1.59 | For DL | - | |
| >>Allocation/Retention Priority | М | | 9.2.1.1A | | _ | |
| >>Frame Handling Priority | М | | 9.2.1.30 | | _ | |
| >>QE-Selector | М | | 9.2.1.50A | | - | |
| >>Unidirectional DCH Indicator | 0 | | 9.2.1.68 | | YES | reject |
| >TNL QoS | 0 | | 9.2.1.58A | | YES | ignore |

| Range Bound | Explanation |
|-------------|-----------------------------------|
| maxnoofDCHs | Maximum number of DCHs for one UE |

9.2.2.4E DCHs FDD To Modify

The DCHs FDD To Modify IE provides information for DCHs to be modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------------|----------|-----------------------------------|-----------------------------|--------------------------|-------------|-------------------------|
| DCHs FDD To Modify | | 1 <maxno ofDCHs></maxno | | | _ | |
| >UL FP Mode | 0 | | 9.2.1.66 | | _ | |
| >ToAWS | 0 | | 9.2.1.61 | | _ | |
| >ToAWE | 0 | | 9.2.1.60 | | _ | |
| >Transport Bearer Request Indicator | M | | 9.2.1.62A | | _ | |
| >DCH Specific Info | | 1 <maxno ofDCHs></maxno | | | _ | |
| >>DCH ID | M | | 9.2.1.20 | | _ | |
| >>Transport Format Set | 0 | | 9.2.1.59 | For the UL. | _ | |
| >>Transport Format Set | 0 | | 9.2.1.59 | For the DL. | _ | |
| >>Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >>Frame Handling Priority | 0 | | 9.2.1.30 | | _ | |
| >>Unidirectional DCH Indicator | 0 | | 9.2.1.68 | | YES | reject |
| >TNL QoS | 0 | | 9.2.1.58A | | YES | ignore |

| Range Bound | Explanation |
|-------------|-----------------------------------|
| maxnoofDCHs | Maximum number of DCHs for one UE |

9.2.2.4F DCH Indicator For E-DCH-HSDPA Operation

The DCH Indicator For E-DCH-HSDPA Operation parameter indicates whether *DCH Information* IE should be ignored in the message in which the *DCH Indicator For E-DCH-HSDPA Operation* IE is included.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| DCH Indicator For E-DCH- | | | ENUMERATED | |
| HSDPA Operation | | | (DCH not present) | |

9.2.2.4G Transport Bearer Not Requested Indicator

The Transport Bearer Not Requested Indicator parameter indicates that a transport bearer shall not be established or may not to be established for a DCH or an E-DCH MAC-d flow.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|-------------------|-----------------------|
| | | | Reference | |
| Transport Bearer Not | | | ENUMERATED | |
| Requested Indicator | | | (Transport Bearer | |
| | | | shall not be | |
| | | | Established, | |
| | | | Transport Bearer | |
| | | | may not be | |
| | | | Established) | |

9.2.2.4H Transport Bearer Not Setup Indicator

The Transport Bearer Not Setup Indicator parameter indicates that a transport bearer will not be established for a DCH or an E-DCH MAC-d flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Transport Bearer Not Setup | | | ENUMERATED | |
| Indicator | | | (Transport Bearer | |
| | | | Not Setup) | |

9.2.2.5 D-Field Length

Void.

9.2.2.6 Dedicated Channels Capacity Consumption Law

Void.

9.2.2.7 Diversity Control Field

Void.

9.2.2.8 Diversity Indication

Void.

9.2.2.9 Diversity Mode

Define the diversity mode to be applied.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|---|--|
| Diversity Mode | | | ENUMERATED (None, STTD, Closed loop mode 1, Not Used,) | The <i>Diversity Mode</i> IE shall never be set to "Not Used". If received it shall be rejected. |

9.2.2.10 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to ref. TS 25.211 [7].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| DL DPCH Slot Format | | | INTEGER (016,) | |

9.2.2.10A DL DPCH Timing Adjustment

The DL DPCH Timing Adjustment indicates that a timing adjustment of the related radio link is required or that an Initial DL DPCH Timing Adjustment has been performed by the Node B. It also indicates whether the timing adjustment consists of a timing advance or a timing delay with respect to the SFN timing. The adjustment always consists of 256 chips.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|--------------------------|
| DL DPCH Timing Adjustment | | | ENUMERATED (| The size of the timing |
| | | | timing advance, | adjustment is 256 chips. |
| | | | timing delay) | |

9.2.2.11 DL frame type

Void.

9.2.2.12 DL or Global Capacity Credit

Void.

9.2.2.12A DL_power_averaging_window_size

The *DL_power_averaging_window_size* IE defines the window size when Limited Power Increase is used TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------|----------|-------|--------------------------|---|
| DL_power_averaging_window _size | | | INTEGER (160) | Unit: inner loop power adjustments Range: 160 |
| | | | | Step: 1 adjustment |

9.2.2.12B DL Power Balancing Information

The *DL Power Balancing Information* IE provides information for power balancing to be activated in the relevant RL(s).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|-------------|---|--------------------------|------------------------|
| Power Adjustment Type | M | | 9.2.2.27 | |
| DL Reference Power | C- | | DL Power | Power on DPCH or on F- |
| | Common | | 9.2.1.21 | DPCH |
| DL Reference Power | C- | 1 <maxno< td=""><td></td><td></td></maxno<> | | |
| Information | Individual | ofRLs> | | |
| >RL ID | M | | 9.2.1.53 | |
| >DL Reference Power | M | | DL Power | Power on DPCH or on F- |
| | | | 9.2.1.21 | DPCH |
| Max Adjustment Step | C- | | 9.2.2.20 | |
| | CommonO | | | |
| | rIndividual | | | |
| Adjustment Period | C- | | 9.2.2.B | |
| | CommonO | | | |
| | rIndividual | | | |
| Adjustment Ratio | C- | | 9.2.2.C | |
| | CommonO | | | |
| | rIndividual | | | |

| Condition | Explanation |
|--------------------|--|
| Common | The IE shall be present if the Power Adjustment Type IE is set to |
| | "Common". |
| Individual | The IE shall be present if the <i>Power Adjustment Type</i> IE is set to |
| | "Individual". |
| CommonOrIndividual | The IE shall be present if the Power Adjustment Type IE is set to |
| | "Common" or 'Individual". |

| Range Bound | Explanation |
|-------------|--|
| maxnoofRLs | Maximum number of Radio Links for a UE |

9.2.2.12C DL Power Balancing Activation Indicator

The DL Power Balancing Activation Indicator IE indicates that the power balancing is activated in the RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|--------------------------|-----------------------|
| DL Power Balancing Activation | | | ENUMERATED | |
| Indicator | | | (DL Power | |
| | | | Balancing Activated) | |

9.2.2.12D DL Power Balancing Updated Indicator

The *DL Power Balancing Updated Indicator* IE indicates that the power balancing related parameters is updated in the RL.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------------|----------|-------|-----------------|-----------------------|
| | | | Reference | |
| DL Power Balancing Updated | | | ENUMERATED (DL | |
| Indicator | | | Power Balancing | |
| | | | Updated) | |

9.2.2.13 DL Scrambling Code

DL scrambling code to be used by the RL. One cell may have multiple DL scrambling codes available.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|--|
| DL Scrambling Code | | | INTEGER (015) | "0" = Primary scrambling code of the cell "1""15" = Secondary scrambling code |

9.2.2.13A DL TPC Pattern 01 Count

The *DL TPC Pattern 01 Count* IE contains the value of the parameter n, which is used for determining the DL TPC pattern on Radio Links marked with "first RLS" by the *First RLS indicator* IE before UL synchronisation is achieved.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| DL TPC Pattern 01 Count | | | INTEGER(030,) | |

9.2.2.13B DSCH FDD Information

Void.

9.2.2.13C DPC Mode

The DPC Mode IE indicates the DPC mode to be applied TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|---------------------------------------|---|
| DPC Mode | | | ENUMERATED (Mode0, Mode1,) | "Mode0": The Node B shall estimate the UE transmitted TPC command and update the DL power in every slot |
| | | | | "Mode1": The Node B shall estimate the UE transmitted TPC command over three slots and shall update the DL power in every three slots |

9.2.2.13D DSCH FDD Common Information

Void.

9.2.2.13Da E-DCH FDD Information

The E-DCH FDD Information IE provides information for an E-DCH to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|--------------------------------------|-------|---|--|-------------|----------------------|
| E-DCH MAC-d Flows Information | М | | 9.2.2.13M | | _ | |
| HARQ Process Allocation For 2ms Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | If this IE is not included, scheduled transmission in all HARQ processes is allowed. | ŀ | |
| E-DCH Maximum Bitrate | 0 | | 9.2.2.13T | | _ | |
| E-DCH Processing Overload Level | 0 | | 9.2.1.79 | | _ | |
| E-DCH Reference Power Offset | 0 | | 9.2.2.13Y | | _ | |
| E-DCH Power Offset for Scheduling Info | 0 | | 9.2.1.85 | | YES | ignore |
| SixteenQAM UL Operation Indicator | 0 | | 9.2.2.88A | | YES | reject |
| E-AGCH Table Choice | C- SixteenQA M UL Operation | | 9.2.2.100 | If the SixteenQAM UL operation is not configured for this UE, Table 16B for E-AGCH in TS 25.212 [8] shall be used. | YES | ignore |

| Condition | Explanation |
|-------------------------|--|
| SixteenQAM UL Operation | The IE shall be present if the SixteenQAM UL Operation Indicator IE is |
| | set to 'Activate'. |

9.2.2.13DA E-DCH FDD Update Information

The *E-DCH FDD Update Information* IE provides information for E-DCH to be updated. At least one IE shall be present.

| IE/Group Name | Presenc e | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|--------------|--|---|--------------------------|-------------|----------------------|
| E-DCH MAC-d Flow Specific Update Information | | 0 <max noofED CHMAC dFlows></max | | | - | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | | _ | |
| >HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | | - | |
| HARQ Process Allocation For 2ms Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | | - | |
| E-DCH DL Control Channel Change Information | | 0 <max noofED CHRLs ></max | | | GLOBAL | Ignore |
| >E-DCH RL ID | М | | RL ID 9.2.1.53 | | Ι | |

| Range bound | Explanation |
|----------------------|--|
| maxnoofEDCHMACdFlows | Maximum number of MAC-d flows. |
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |

9.2.2.13Db E-DCH FDD Information Response

The *E-DCH FDD Information Response* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|---|--------------------------|-------------|----------------------|
| E-DCH MAC-d Flow Specific Information Response | | 0 <max noofED CHMAC dFlows></max | | | _ | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | | _ | |
| >HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | | 1 | |
| >Transport Bearer Not Setup Indicator | 0 | | 9.2.2.4H | | YES | ignore |
| HARQ Process Allocation For 2ms Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | | _ | |

| Range bound | Explanation |
|----------------------|--------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of MAC-d flows. |

9.2.2.13Dc E-DCH FDD DL Control Channel Information

The *E-DCH FDD DL Control Channel Information* IE provides information for E-DCH specific DL Control Channels to be provided to UE via RRC signalling.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|---|--|-------------|----------------------|
| E-AGCH And E-RGCH/E- HICH FDD Scrambling Code | 0 | | DL Scrambling Code 9.2.2.13 | Scrambling code on which E- AGCH, E- RGCH and E-HICH are transmitted. | - | |
| E-AGCH Channelisation Code | 0 | | FDD DL Channelisation Code Number 9.2.2.14 | | - | |
| Primary E-RNTI | 0 | | E-RNTI 9.2.1.75 | | _ | |
| Secondary E-RNTI | 0 | | E-RNTI 9.2.1.75 | | - | |
| E-RGCH/E-HICH Channelisation Code | 0 | | FDD DL Channelisation Code Number 9.2.2.14 | | _ | |
| E-RGCH Signature Sequence | 0 | | INTEGER (0maxnoofSigS eqE-RGHICH - 1) | | _ | |
| E-HICH Signature Sequence | 0 | | INTEGER (0maxnoofSigS eqE-RGHICH - 1) | | _ | |
| Serving Grant Value | 0 | | INTEGER (037,38) | (037) indicates E- DCH serving grant index as defined in 3GPP TS 25.321 [32]; index 38 means zero grant | - | |
| Primary/Secondary Grant Selector | 0 | | ENUMERATED (Primary, Secondary) | Indicates whether the Serving Grant Value is granted with a primary E- RNTI or a secondary E- RNTI | - | |
| E-RGCH Release Indicator | 0 | | 9.2.2.13lc | | - | |
| Default Serving Grant in DTX Cycle 2 | O | | INTEGER (037,38) | Serving Grant value to be used in DTX-Cycle-2. (037) indicates E- DCH serving grant index as defined in 3GPP TS 25.321 [32]; index 38 means zero grant | YES | ignore |

| Range bound | Explanation |
|-----------------------|--|
| maxnoofSigSegE-RGHICH | Maximum number of Signature Sequences for E-RGCH/E-HICH. |

9.2.2.13De E-DCH RL Indication

Indicates whether a RL is an E-DCH RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| E-DCH RL Indication | | | ENUMERATED(E- | |
| | | | DCH, non E-DCH) | |

9.2.2.13Df E-DCH FDD Information to Modify

The *E-DCH FDD Information to Modify* IE is used for the modification of an E-DCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|--|--|-------------|----------------------|
| E-DCH MAC-d Flow Specific Information | | 0 <maxno ofEDCHM ACdFlows ></maxno | Reference | Description | - | Criticality |
| >E-DCH MAC-d Flow ID | M | | 9.2.1.74 | | _ | |
| >Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >Transport Bearer Request Indicator | М | | 9.2.1.62A | | _ | |
| >TNL QoS | 0 | | 9.2.1.58A | | _ | |
| >Maximum Number Of Retransmissions For E- DCH | 0 | | 9.2.1.81 | | _ | |
| >E-DCH HARQ Power Offset FDD | 0 | | 9.2.2.13Dk | | _ | |
| >E-DCH MAC-d Flow Multiplexing List | 0 | | 9.2.1.69 | | - | |
| >CHOICE E-DCH Grant Type | 0 | | | | _ | |
| >>E-DCH Non- Scheduled Transmission Grant | | | | | | |
| >>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission | M | | 9.2.2.13Dm | If the Extended Maximum Number of Bits per MAC-e PDU for Nonscheduled Transmission IE is present, this IE shall be ignored. When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the maximum number of bits per MAC-i PDU. | _ | |
| >>>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | | _ | |
| >>>Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission | 0 | | 9.2.2.13Dr | When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the extended maximum number of bits per MAC-i PDU. | YES | reject |
| >>E-DCH Scheduled Transmission Grant | | | NULL | | | |

| | 1.0 | 1 | 1 | | T | Г |
|---------------------------|-----------|---|----------------|------------------|--------|--------|
| >Bundling Mode Indicator | 0 | | 9.2.2.1Bb | | _ | |
| >E-DCH Logical Channel | 0 | | E-DCH | | _ | |
| To Add | | | Logical | | | |
| | | | Channel | | | |
| | | | Information | | | |
| | | | 9.2.1.71 | | | |
| >E-DCH Logical Channel | 0 | | 9.2.1.72 | | _ | |
| To Modify | | | | | | |
| >E-DCH Logical Channel | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| To Delete | | oflogicalch | | | | |
| 10 Delete | | annels> | | | | |
| 1 : 101 115 | | arineis> | 0.04.00 | | | |
| >>Logical Channel ID | M | | 9.2.1.80 | | _ | |
| HARQ Process Allocation | 0 | | HARQ | | _ | |
| For 2ms Scheduled | | | Process | | | |
| Transmission Grant | | | Allocation for | | | |
| | | | 2ms TTI | | | |
| | | | 9.2.2.13Dn | | | |
| E-DCH Maximum Bitrate | 0 | | 9.2.2.13T | | _ | |
| E-DCH Processing Overload | 0 | | 9.2.1.79 | | _ | |
| Level | | | | | | |
| E-DCH Reference Power | 0 | | 9.2.2.13Y | | _ | |
| Offset | | | 0.2.2.101 | | | |
| MAC-e Reset Indicator | 0 | | 9.2.1.83 | | _ | |
| E-DCH Power Offset for | 0 | | 9.2.1.85 | | YES | ianoro |
| | 0 | | 9.2.1.85 | | YES | ignore |
| Scheduling Info | | | 0.0.0.004 | | \/F0 | |
| SixteenQAM UL Operation | 0 | | 9.2.2.88A | | YES | reject |
| Indicator | _ | | | | | |
| E-DCH MAC-d PDU Size | 0 | | 9.2.1.74B | | YES | reject |
| Format | | | | | | |
| E-DCH DL Control | | 0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxno<> | | | GLOBAL | ignore |
| Channel Grant Information | | ofEDCHR | | | | _ |
| | | Ls> | | | | |
| >E-DCH RL ID | М | | RL ID | | _ | |
| | | | 9.2.1.53 | | | |
| E-AGCH Table Choice | C- | | 9.2.2.100 | If sixteenQAM | YES | igonre |
| 2 / COTT Table Choice | SixteenQA | | 0.2.2.100 | UL operation is | 120 | igonio |
| | M UL | | | not used in the | | |
| | _ | | 1 | | | |
| | Operation | | 1 | new | | |
| | | | 1 | configuration | | |
| | | | 1 | for this UE, | | |
| | | | | Table 16B for | | |
| | | | | E-AGCH in TS | | |
| | | | 1 | 25.212 [8] shall | | |
| | | | | be used in the | | |
| | | | 1 | new | | |
| | | | 1 | configuration. | | |
| | 1 | 1 | 1 | Joinigaration. | l . | l |

| Condition | Explanation |
|-------------------------|---|
| SixteenQAM UL Operation | The IE shall be present if the SixteenQAM UL Operation Indicator IE |
| | is set to 'Activate'. |

| Range bound | Explanation |
|------------------------|--|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows. |
| maxnooflogicalchannels | Maximum number of logical channels |
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |

9.2.2.13Dh E-DCH Transport Format Combination Set Information (E-TFCS Information)

Whereas the related Transport Block sizes are standardised in 3GPP TS 25.321 [32] this IE gives details on the referenced Transport Block Size Table, the E-DCH Minimum Set E-TFCI, the Reference E-TFCIs and configuration parameters used for the calculation of the gain factors β_{ec} and β_{ed} defined in TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|---|-----------------------|---|-------------|----------------------|
| E-TFCI Table Index E-DCH Minimum Set E-TFCI | M | | INTEGER (01,, 27) | Indicates which standardised E-TFCS Transport Block Size Table shall be used. The related tables are specified in 3GPP TS 25.321 [32]. For the | _ | |
| Reference E-TFCI | O O | 1 <maxn< td=""><td>(0127)</td><td>concept of "E-DCH Minimum Set of TFCs" see 3GPP TS 25.321 [32] and TS 25.331 [18].</td><td></td><td></td></maxn<> | (0127) | concept of "E-DCH Minimum Set of TFCs" see 3GPP TS 25.321 [32] and TS 25.331 [18]. | | |
| Information | | oofRefET FCIs> | | | _ | |
| >Reference E-TFCI | M | | INTEGER (0127) | | _ | |
| >Reference E-TFCI Power Offset | М | | 9.2.2.13Dp | If the Extended Reference E- TFCI Power Offset IE is present, this IE shall be ignored | _ | |
| >Extended Reference E- TFCI Power Offset | 0 | | 9.2.2.13Dq | | YES | reject |
| E-TFCI Boost Information | 0 | | 9.2.2.88B | | YES | reject |
| E-DPDCH Power Interpolation | 0 | | BOOLEAN | True means that the E-DPDCH power interpolation formula shall be applied, False means that the E-DPDCH power extrapolation formula shall be applied for the computation of the gain factor β_{ed} according to TS 25.214 [10] | YES | reject |

| Range Bound | Explanation |
|------------------|---|
| maxnoofRefETFCIs | Maximum number of signalled reference E-TFCIs |

9.2.2.13Di E-TTI

The E-TTI parameter indicates the Transmission Time Interval for E-DPCH operation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| E-TTI | | | ENUMERATED | |
| | | | (2ms, 10ms) | |

9.2.2.13Dj E-DPCCH Power Offset

The E-DPCCH Power Offset is used to calculate the E-DPCCH gain factor β_{ec} as defined in TS 25.214 [10], whereas β_{ec} is related to the power difference between DPCCH and E-DPCCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|---|
| E-DPCCH Power Offset | | | INTEGER (08) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1.3. |

9.2.2.13Dk E-DCH HARQ Power Offset FDD

The E-DCH HARQ Power Offset FDD is used to calculate the unquantised gain factor for an E-TFC ($\beta_{ed,j,uq}$) as defined in TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-------|--------------------------|---|
| E-DCH HARQ Power Offset FDD | | | INTEGER (06) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1.3. |

9.2.2.13DI E-DCH MAC-d Flow Multiplexing List

Void.

9.2.2.13Dm Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission indicates the number of bits allowed to be included in a MAC-e (or MAC-i) PDU per E-DCH MAC-d flow configured for non-scheduled transmissions. If the range of the *Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE is insufficient to represent the value to be sent to the Node B, the *Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE shall be used to represent the value to be sent to the Node B, see section 9.2.2.13Dr.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Maximum Number of Bits per | | | INTEGER (119982) | |
| MAC-e PDU for Non- | | | | |
| scheduled Transmission | | | | |

9.2.2.13Dn HARQ Process Allocation For 2ms TTI

The HARQ Process Allocation for 2ms TTI indicates those HARQ processes that are allowed. MAC-d PDU"s for a MAC-d flow are only allowed to be transmitted in those processes for which the bit is set to "1".

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------------|----------|-------|--------------------------|--|
| HARQ Process Allocation For 2ms TTI | | | BIT STRING (8) | The first Bit corresponds to HARQ process ID = 0, the second bit corresponds to HARQ process ID = 1, etc. The HARQ process ID for 2ms TTI is defined in 3GPP TS 25.321 [32], chapter 11.8.1.3. |

9.2.2.13Dp Reference E-TFCI Power Offset

The Reference E-TFCI Power Offset is used to calculate the reference E-TFC gain factor $\beta_{ed,ref}$ as defined in TS 25.214 [10]. If the range of the *Reference E-TFCI Power Offset* IE is insufficient to represent the value to be sent to the Node B, the *Extended Reference E-TFCI Power Offset* IE shall be used to represent the value to be sent to the Node B, see section 9.2.2.13Dq.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|--------------------------|--|
| Reference E-TFCI Power Offset | | | INTEGER (029) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1.3 |

9.2.2.13Dg Extended Reference E-TFCI Power Offset

The Extended Reference E-TFCI Power Offset IE shall be used if the range of the Reference E-TFCI Power Offset IE (see section 9.2.2.13Dp) is insufficient to represent the value of the Reference E-TFCI Power Offset to be sent to the Node B.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------------|----------|-------|-------------|------------------------------|
| | | | Reference | |
| Extended Reference E-TFCI | | | INTEGER | According to mapping in ref. |
| Power Offset | | | (3031,) | TS 25.213 [9] subclause |
| | | | | 4.2.1.3 |

9.2.2.13Dr Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE shall be used if the range of the Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE (see section 9.2.2.13Dm) is insufficient to represent the value of the Maximum Number of Bits per MAC-e (or MAC-i) PDU for Non-scheduled Transmission to be sent to the Node B.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------------|----------|-------|---------------|-----------------------|
| | | | Reference | |
| Extended Maximum Number of | | | INTEGER | |
| Bits per MAC-e PDU for Non- | | | (1998322978,) | |
| scheduled Transmission | | | | |

9.2.2.13E Enhanced DSCH PC

Void.

9.2.2.13F Enhanced DSCH PC Counter

Void.

9.2.2.13G Enhanced DSCH PC Indicator

Void.

9.2.2.13H Enhanced DSCH PC Wnd

Void.

9.2.2.13I Enhanced DSCH Power Offset

Void.

9.2.2.13la E- RGCH/E-HICH Code Information

This parameter defines the codes which will be assigned for E- RGCH and E-HICH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|---|---|-----------------------|
| CHOICE replaceremove | M | | | |
| >replace | | | | |
| >>E-RGCH/E-HICH Code | | 1 <maxno ofERGCH EHICHs></maxno | | |
| >>>Code Number | М | | FDD DL Channelisation Code Number 9.2.2.14 | |
| >remove | | | NULL | |

| Range Bound | Explanation |
|--------------------|--|
| MaxnoofERGCHEHICHs | Maximum number of E-RGCH/E-HICH channelisation codes for one |
| | cell. |

9.2.2.13lb E- AGCH Code Information

This parameter defines the codes which will be assigned for E- AGCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|--|---|-----------------------|
| CHOICE replaceremove | M | | | |
| >replace | | | | |
| >>E-AGCH Code | | 1 <maxno ofEAGCHs ></maxno | | |
| >>>Code Number | М | | FDD DL Channelisation Code Number 9.2.2.14 | |
| >remove | | | NULL | |

| Range Bound | Explanation |
|---------------|---|
| MaxnoofEAGCHs | Maximum number of E-AGCH chanellisation codes for one cell. |

9.2.2.13lc E-RGCH Release Indicator

Indicates the E-RGCH is released.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| E-RGCH Release Indicator | | | ENUMERATED (E- | |
| | | | RGCH released) | |

9.2.2.13Id E-AGCH Power Offset

The *E-AGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-AGCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| E-AGCH Power Offset | | | INTEGER | Unit: dB |
| | | | (0255,) | Range: -32 +31.75 dB |
| | | | | Step: 0.25 dB |

9.2.2.13le E-RGCH Power Offset

The *E-RGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-RGCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| E-RGCH Power Offset | | | INTEGER | Unit: dB |
| | | | (0255,) | Range: -32 +31.75 dB |
| | | | | Step: 0.25 dB |

9.2.2.13If E-HICH Power Offset

The *E-HICH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-HICH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|-----------------------|-----------------------|
| E-HICH Power Offset | | | INTEGER | Unit: dB |
| | | | (0255,) | Range: -32 +31.75 dB |
| | | | | Step: 0.25 dB |

9.2.2.13lg E-RGCH 2-Index-Step Threshold

The E-RGCH 2-index-step-threshold IE is used to determine the Serving Grant.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|--------------------------|--|
| E-RGCH 2-Index-Step Threshold | | | INTEGER (037) | Refers to an index in the "SG- Table" (see 3GPP TS 25.321 [32]). |

9.2.2.13lh E-RGCH 3-Index-Step Threshold

The E-RGCH 3-index-step-threshold IE is used to determine the Serving Grant.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|--------------------------------|
| E-RGCH 3-Index-Step | | | INTEGER | Refers to an index in the "SG- |

| Threshold | (037) | Table" (see 3GPP TS 25.321 |
|-----------|-------|----------------------------|
| | | [32]). |

9.2.2.13J E-DCH Capability

Void

9.2.2.13Ja E-DCH Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the RL/RLS situation and the number of uplink E-DPDCHs and their spreading factors. The reference spreading factor and number of E-DPDCH is signalled using the *Maximum Set of E-DPDCHs* IE.

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account.

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.

The costs given in the consumption law are the costs per channelization code/no of E-DPDCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|--|--------------------------|---|
| SF Allocation Law | | 1 <maxno ofCombED PDCH></maxno | | The cost of SF allocation: the first instance corresponds to v2xN2plus2xN4, the second to v2xN2, the third to v2xN4, the fourth to vN4, the fifth to vN8, the sixth to vN16, the seventh to vN32, the eighth to vN64, the ninth to vN128, the tenth to vN256 and the eleventh to v2xM2plus2xM4. |
| >UL Cost 1 | M | | INTEGER (065535) | This is the cost of a RLS |
| >UL Cost 2 | M | | INTEGER (065535) | This is the cost of a RL |
| DL Cost 1 | 0 | | INTEGER (065535) | This is the cost of a RLS. If not present, zero cost shall be applied. |
| DL Cost 2 | 0 | | INTEGER (065535) | This is the cost of a RL. If not present, zero cost shall be applied. |

| Range Bound | Explanation |
|-------------------|---|
| maxnoofCombEDPDCH | Maximum number of Configurations in the <i>Maximum Set of E-DPDCH</i> |
| | IE . |

9.2.2.13K E-DCH Logical Channel Information

Void

9.2.2.13L E-DCH Logical Channel To Modify

Void

9.2.2.13M E-DCH MAC-d Flows Information

The *E-DCH MAC-d Flows Information* IE is used for the establishment of E-DCH MAC-d flows.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|--|---|-------------|----------------------|
| E-DCH MAC-d Flow Specific Information | | 1 <maxno ofEDCHM ACdFlows ></maxno | | | - | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | | _ | |
| >Allocation/Retention Priority | M | | 9.2.1.1A | | _ | |
| >TNL QoS | 0 | | 9.2.1.58A | | _ | |
| >Payload CRC Presence Indicator | M | | 9.2.1.49 | | _ | |
| >Maximum Number Of Retransmissions For E-DCH | M | | 9.2.1.81 | | _ | |
| >E-DCH HARQ Power Offset FDD | М | | 9.2.2.13Dk | | _ | |
| >E-DCH MAC-d Flow Multiplexing List | 0 | | 9.2.1.69 | | _ | |
| >CHOICE <i>E-DCH Grant</i> Type | М | | | | _ | |
| >>E-DCH Non-Scheduled Transmission Grant | | | | | | |
| >>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission | М | | 9.2.2.13Dm | If the Extended Maximum Number of Bits per MAC- e PDU for Non- scheduled Transmission IE is present, this IE shall be ignored. When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the maximum number of bits per MAC-i PDU. | | |
| >>>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | If this IE is not included, transmission in all HARQ processes is allowed. | _ | |
| >>>Extended Maximum Number of Bits per MAC- e PDU for Non-scheduled Transmission | 0 | | 9.2.2.13Dr | When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the extended maximum number of bits per MAC-i PDU. | YES | reject |

| >>E-DCH Scheduled | | NULL | | |
|--------------------------|---|-----------|-----|--------|
| Transmission Grant | | | | |
| >Bundling Mode Indicator | 0 | 9.2.2.1Bb | - | |
| >E-DCH Logical Channel | M | 9.2.1.71 | - | |
| Information | | | | |
| >Transport Bearer Not | 0 | 9.2.2.4G | YES | ignore |
| Requested Indicator | | | | _ |

| Range Bound | Explanation |
|----------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.2.13N E-DCH MAC-d Flows To Delete

Void

9.2.2.13O E-DCH MAC-d Flow ID

Void

9.2.2.13P E-RNTI

Void

9.2.2.13Q E-DCH DDI Value

Void

9.2.2.13R E-DCH Provided Bit Rate Value

Void

9.2.2.13S E-DCH Provided Bit Rate Value Information

Void

9.2.2.13T E-DCH Maximum Bitrate

The E-DCH Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|-----------------------|-----------------------------------|
| E-DCH Maximum Bitrate | | | INTEGER | Bitrate on transport block level. |
| | | | (05742,, | Unit is kbits per second. |
| | | | 574311498) | |

9.2.2.13U E-DCH Processing Overload Level

Void

9.2.2.13V E-DCH TTI Capability

This parameter defines the E-DCH TTI Capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|--|
| E-DCH TTI2ms Capability | | | BOOLEAN | True = TTI 10ms and 2ms supported for E-DCH False = only TTI 10ms supported for E-DCH |

9.2.2.13W E-DCH SF Capability

This parameter defines the E-DCH Capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|---------------------------------|
| E-DCH SF Capability | | | ENUMERATED | Min SF supported by the cell in |
| | | | (sf64, sf32, sf16, sf8, | E-DCH |
| | | | sf4, 2sf4, 2sf2, | |
| | | | 2sf2and2sf4,) | |

9.2.2.13X E-DCH HARQ Combining Capability

This parameter defines the E-DCH HARQ Combining capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| E-DCH HARQ Combining | | | ENUMERATED (IR | |
| Capability | | | Combining Capable, | |
| | | | Chase Combining | |
| | | | Capable, IR and | |
| | | | Chase Combining | |
| | | | Capable) | |

9.2.2.13Y E-DCH Reference Power Offset

The E-DCH Reference Power Offset is used to estimate the E-DPDCH power from E-TFCI without decoding MAC-e PDUs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------|----------|-------|--------------------------|---|
| E-DCH Reference Power Offset | | | INTEGER (06) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1.3. |

9.2.2.13Z E-DCH Power Offset for Scheduling Info

Void

9.2.2.14 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|-----------------------|--|
| FDD DL Channelisation Code Number | | | INTEGER (0511) | According to the mapping in TS 25.213 [9]. The maximum value is equal to the DL spreading factor –1. |

9.2.2.14A FDD DL Code Information

The FDD DL Code Information IE provides DL Code information for the RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|------------------------------|--------------------------|-----------------------|
| FDD DL Code Information | | 1 <maxno ofcodes=""></maxno> | | |
| >DL Scrambling Code | М | | 9.2.2.13 | |
| >FDD DL Channelisation Code Number | М | | 9.2.2.14 | |
| >Transmission Gap Pattern Sequence Code Information | 0 | | 9.2.2.53B | |

| Range Bound | Explanation | | |
|--------------|---------------------------------------|--|--|
| maxnoofCodes | Maximum number of DL code information | | |

9.2.2.14B FDD S-CCPCH Frame Offset

The FDD S-CCPCH Frame Offset IE represents a frame offset between the concerned S-CCPCH"s CFN (Connection Frame Number) relatively to the P-CCPCH"s SFN (System Frame Number) of the respective cell. The FDD S-CCPCH Frame Offset IE shall be the constant difference between the S-CCPCH"s CFN and the least significant 8 bits of the SFN (System Frame Number) on Uu.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|--|
| FDD S-CCPCH Frame Offset | | | ENUMERATED (1, 2, 4,) | Offset in frames (corresponding to 10msec, 20msec or 40msec offset in time) |

9.2.2.15 FDD SCCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|--|
| FDD SCCPCH Offset | | | INTEGER (0149) | Unit: chip Range: 038144 chips Step: 256 chips See ref. TS 25.211 [7] |

9.2.2.16 FDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|---------------------------------|-----------------------|
| FDD TPC Downlink Step Size | | | ENUMERATED (0.5, 1, 1.5, 2,) | Unit: dB |

9.2.2.16a F-DPCH Capability

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| F-DPCH Capability | | | ENUMERATED (F- | |
| | | | DPCH Capable, F- | |
| | | | DPCH Non-Capable) | |

9.2.2.16A First RLS Indicator

The *First RLS Indicator* IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| First RLS Indicator | | | ENUMERATED (| |
| | | | First RLS, | |
| | | | Not First RLS, | |
| | | |) | |

9.2.2.17 Gap Period

Void.

9.2.2.18 Gap Position Mode

Void.

9.2.2.18a HARQ Preamble Mode

The HARQ Preamble Mode IE is used as described as in ref TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|------------------------|--|
| HARQ Preamble Mode | | | ENUMERATED (mode0, | "mode0" means HARQ Preamble Mode =0 |
| | | | mode1) | "mode1" means HARQ Preamble Mode =1 |

9.2.2.18b HARQ Preamble Mode Activation Indicator

The HARQ Preamble Activation Indicator indicates if the configured HARQ Preamble Mode has been activated in the Node B.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|------------------|-----------------------|
| | | | Reference | |
| HARQ Preamble Mode | | | ENUMERATED(HA | |
| Activation Indicator | | | RQ Preamble Mode | |
| | | | Activated). | |

9.2.2.18ba HARQ Info for E-DCH

The E-DCH HARQ Info is used to indicate the use of redundancy version (RV) for the EDCH HARQ transmissions.

| IE/Group name | Presence | Range | IE Type and | Semantics description |
|---------------------|----------|-------|------------------|------------------------------|
| | | | Reference | |
| HARQ Info for E-DCH | | | ENUMERATED (rv0, | "rv0" indicates that the UE |
| | | | rvtable) | will only use E_DCH RV index |
| | | | | 0. |
| | | | | "rvtable" indicates that the |
| | | | | UE will use an RSN based RV |
| | | | | index as specified in TS |
| | | | | 25.212 [8] |

9.2.2.18c Logical channel ID

Void

9.2.2.18A Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, the Node B shall use the limited power increase algorithm as specified in TS 25.214 [10], subclause 5.2.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Limited Power Increase | | | ENUMERATED (| |
| | | | Used, | |
| | | | Not Used) | |

9.2.2.18B Inner Loop DL PC Status

The *Inner Loop DL PC Status* IE indicates whether inner loop DL control shall be active or inactive for all radio links associated with the context identified by the *Node B Communication Context Id* IE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Inner Loop DL PC Status | | | ENUMERATED (| |
| | | | Active, | |
| | | | Inactive) | |

9.2.2.18C IPDL FDD Parameters

The IPDL FDD Parameters IE provides information about IPDL to be applied for FDD when activated.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--|-----------------------|
| IP SpacingFDD | M | | ENUMERATED (5, 7, 10, 15, 20, 30, 40, 50,) | See TS 25.214 [10] |
| IP Length | М | | ENUMERATED (5, 10) | See TS 25.214 [10] |
| Seed | M | | INTEGER (063) | See TS 25.214 [10] |
| Burst Mode Parameters | 0 | | 9.2.1.5A | |
| IP Offset | M | | INTEGER (09) | See TS 25.214 [10] |

9.2.2.18Ca HS-DSCH configured indicator

The *HS-DSCH Configured Indicator* IE indicates the configuration of HS-DSCH for the UE. The *HS-DSCH Configured Indicator* IE shall be used for the configuration of the E-DPDCH IQ branch mapping (TS 25.213 [9]).

| IE/Group Name | Presence | Range | IE type and | Semantics description |
|------------------------------|----------|-------|------------------|----------------------------|
| | | | reference | |
| HS-DSCH Configured Indicator | | | ENUMERATED (HS- | Indicator of the HS-DSCH |
| | | | DSCH configured, | forconfiguration of the E- |
| | | | HS-DSCH not | DPDCHs IQ branch mapping |
| | | | configured) | (TS 25.213 [9]). |

9.2.2.18D HS-DSCH FDD Information

The *HS-DSCH FDD Information* IE is used for initial addition of HS-DSCH information to a Node B Communication Context.

| HS-DSCH MAC-d Flows Information JE Capabilities | IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|--|----------|-------|--|---|-------------|-------------------------|
| SHSDSCH Physical Layer Category 1-128 Mcps TDD Uplink Physical Channel Capability Number of Supported Carriers O ENUMERA Not to be used. YES Ignore Physical Channel Capability Number of Supported Carriers O ENUMERA Not to be used. YES reject TED (One-one carrier, One-three carrier, Three-three carrier, Three-six carrier, T | | М | | 9.2.1.31IA | | _ | |
| SHSDSCH Physical Layer Category 1-128 Mcps TDD Uplink Physical Channel Capability Number of Supported Carriers O ENUMERA Not to be used. YES Ignore Physical Channel Capability Number of Supported Carriers O ENUMERA Not to be used. YES reject TED (One-one carrier, One-three carrier, Three-three carrier, Three-six carrier, T | UE Capabilities Information | | 1 | | | _ | |
| S-1,28 Mops TDD Uplink Physical Channel Capability | >HS-DSCH Physical Layer | М | | 9.2.1.31la | | _ | |
| TED (One-one carrier, One-one carrier, One-one carrier, Three-three c | >1.28 Mcps TDD Uplink Physical Channel Capability | 0 | | 9.2.3.5Gc | Not to be used. | YES | ignore |
| SMUIt-carrier HS-DSCH O | | 0 | | TED (One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six | Not to be used. | YES | reject |
| MAC-hs Reordering Buffer Size for RLC-UM S | | 0 | | | Not to be used. | YES | ignore |
| CQI Feedback Cycle k | MAC-hs Reordering Buffer | М | | 9.2.1.38Ab | | _ | |
| CQI Repetition Factor CQICyclek ACK-NACK Repetition Factor M 9.2.2.a ACK Power Offset M 9.2.2.b ACK Power Offset M 9.2.2.18I Beasurement Power Offset O 9.2.2.18I Measurement Power Offset O 9.2.2.18B MEASUREMENT Power Offset O 9.2.2.18B MEASUREMENT POWER OF OF O MIMO Activation Indicator HARQ Preamble Mode O 9.2.2.18a MEASUREMENT POWER OF O MIMO Activation Indicator HS-DSCH MAC-d PDU Size Format O 9.2.1.119 Sixtyfour QAM Usage Allowed Indicator UE with enhanced HS-SCCH support indicator O 9.2.2.74A NULL UE supports different HS- SCCH functionality: - UE supports different HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS-SCCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS-SCH- less operation mode the UE supports HS- SCCH in consecutive TTIS and - in HS- SCH and - in HS- S | | М | | 9.2.2.21B | | _ | |
| ACK-NACK Repetition Factor M 9.2.2.4 - | | C- | | | | _ | |
| CQI Power Offset M 9.2.2.4Ca — ACK Power Offset M 9.2.2.b — NACK Power Offset M 9.2.2.23a — HS-SCCH Power Offset O 9.2.2.18I — HS-SCCH Power Offset O 9.2.2.18I — HS-SCCH Power Offset O 9.2.2.18 — HS-SCCH Power Offset O 9.2.2.18 — HARQ Preamble Mode O 9.2.2.18 — HARQ Preamble Mode O 9.2.2.119 If not present, YES reject HS-DSCH MAC-d PDU Size o P.2.1.31ID If not present, 'Indexed MAC-d PDU Size o P.2.1.31ID If not present, 'Indexed MAC-d PDU Size o P.2.1.31ID o P.2.2.131ID If not present, 'Indexed MAC-d PDU Size o P.2.2.74A YES o P.2.2.74A Sixtyfour QAM Usage O P.2.2.74A YES o P.2.2.74A YES o P.2.2.74A Allowed Indicator If not present, 'Indexed MAC-d PDU Size o P.2.2.74A Allowed Indicator If not present, 'Indexed MAC-d PDU Size o P.2.2.74A Allowed Indicator If not present, 'YES o P.2.2.74A Sixtyfour QAM Usage O P.2.2.74A YES o P.2.2.74A YES o P.2.2.74A Allowed Indicator If not present, 'YES o P. | ACK-NACK Repetition Factor | | | 9.2.2.a | | _ | |
| ACK Power Offset M 9.2.2.b — NACK Power Offset M 9.2.2.23a — HR-S-CCH Power Offset O 9.2.2.18l — Measurement Power Offset O 9.2.2.18l — HARQ Preamble Mode O 9.2.2.18a YES ignore MIMO Activation Indicator O 9.2.1.13l MIMO Activation Indicator O 9.2.1.31lD If not present, "Indexed MAC-d PDU Size" Shall be used. YES reject of PDU Size" Shall be used. Sixtyfour QAM Usage Allowed Indicator UE with enhanced HS-SCCH Support indicator UE with enhanced HS-SCCH In consecutive TIs and — in HS-SCCH less operation mode the UE supports HS-SCCH orders SCCH o | | М | | | | _ | |
| HS-SCCH Power Offset O 9.2.2.18 | ACK Power Offset | М | | | | _ | |
| Measurement Power Offset O 9.2.2.21C | NACK Power Offset | М | | 9.2.2.23a | | _ | |
| HARQ Preamble Mode MIMO Activation Indicator MIMO Activation Indicator HS-DSCH MAC-d PDU Size Format Sixtyfour QAM Usage Allowed Indicator UE with enhanced HS-SCCH support indicator UE with enhanced HS-SCCH o Support indicator Enhanced HS Serving CC Abort Abort HARQ Preamble Mode 9.2.2.18a 9.2.2.18b 9.2.2.119 YES reject YES reject YES ignore PUE supports enhanced HS-SCCH functionality: - UE supports different HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH orders ENUMERA TED (Abort Enhanced HS Serving CC,) ENUMERA Radio Link Addition procedures. | HS-SCCH Power Offset | 0 | | 9.2.2.181 | | _ | |
| MIMO Activation Indicator HS-DSCH MAC-d PDU Size Format O 9.2.1.31ID If not present, YES reject PDU Size reject Indexed MAC-d PDU Size reject Indexed MAC-d PDU Size shall be used. Sixtyfour QAM Usage Allowed Indicator O 9.2.2.74A NULL UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS-SCCH orders Enhanced HS Serving CC Abort Enhanced HS Serving CC Abort Figure Reject PES ignore ignore FENUMERA TED (Abort Enhanced HS Serving CC,) Figure Reject Freject Fre | Measurement Power Offset | 0 | | 9.2.2.21C | | _ | |
| HS-DSCH MAC-d PDU Size Format O 9.2.1.31ID If not present, "Indexed MAC-d PDU Size" shall be used. YES ignore 9.2.2.74A NULL UE supports enhanced HS-SCCH support indicator NULL UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS-SCCH orders Enhanced HS Serving CC Abort Enhanced HS Serving CC,) Findexed MAC-d PDU Size Shall be used. YES ignore ignor | HARQ Preamble Mode | 0 | | 9.2.2.18a | | YES | ignore |
| Format Sixtyfour QAM Usage Allowed Indicator UE with enhanced HS-SCCH support indicator UE with enhanced HS-SCCH support indicator O NULL UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH less operation mode the UE supports HS-SCCH orders Enhanced HS Serving CC Abort ENUMERA TED (Abort Enhanced HS Serving CC,) ENUMERA Radio Link Addition procedures. | MIMO Activation Indicator | 0 | | 9.2.1.119 | | YES | reject |
| Sixtyfour QAM Usage Allowed Indicator UE with enhanced HS-SCCH support indicator O NULL UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS-SCCH orders Enhanced HS Serving CC Abort ENUMERA TED (Abort Enhanced HS Serving CC,) ENUMERA Radio Link Addition procedures. | | 0 | | 9.2.1.31ID | "Indexed MAC- d PDU Size" | YES | reject |
| UE with enhanced HS-SCCH support indicator NULL UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS-SCCH orders Enhanced HS Serving CC Abort Enhanced HS Serving CC,) ENUMERA TED (Abort Enhanced HS Serving CC,) ENUMERA TED (Abort Enhanced HS Serving CC,) Radio Link Addition procedures. | | 0 | | 9.2.2.74A | | YES | ignore |
| Abort TED (Abort Enhanced Radio Link Serving CC,) Radio Link Radio Link Addition procedures. | UE with enhanced HS-SCCH support indicator | | | | enhanced HS- SCCH functionality: - UE supports different HS- SCCH in consecutive TTIs and - in HS-SCCH- less operation mode the UE supports HS- SCCH orders | | |
| | | ō | | TED (Abort Enhanced HS Serving | ignored in Radio Link Setup and Radio Link Addition | YES | reject |
| | UE Support Indicator | 0 | | 9.2.2.117 | | YES | ignore |

| Extension | | | | |
|----------------------|---|-----------|-----|--------|
| Single Stream MIMO | 0 | 9.2.2.123 | YES | reject |
| Activation Indicator | | | | - |

| Condition | Explanation |
|-----------|--|
| CQICyclek | The IE shall be present if the CQI Feedback Cycle k IE is set to a |
| | value greater than 0. |

9.2.2.18Da HS-DSCH FDD Secondary Serving Information

The *HS-DSCH FDD Secondary Serving Information* IE is used for initial addition of Secondary Serving HS-DSCH information to a Node B Communication Context and defines the cell specific parameters for the secondary serving HS-DSCH Radio Link.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------|--|-------------|----------------------|
| HS-SCCH Power Offset | 0 | | 9.2.2.181 | | - | |
| Measurement Power Offset | M | | 9.2.2.21C | | - | |
| Sixtyfour QAM Usage Allowed Indicator | 0 | | 9.2.2.74A | | - | |
| HS-DSCH-RNTI | M | | 9.2.1.31J | | - | |
| MIMO Activation Indicator | 0 | | 9.2.1.119 | | YES | reject |
| Single Stream MIMO Activation Indicator | 0 | | 9.2.2.123 | | YES | reject |
| Diversity Mode | 0 | | 9.2.2.9 | If Diversity mode = "Closed loop mode 1" the procedure shall be rejected | YES | reject |
| Transmit Diversity Indicator | 0 | | 9.2.2.53 | | YES | reject |

9.2.2.18E HS-DSCH FDD Information Response

The HS-DSCH Information Response provides information for HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|-----------------------------|--------------------------|-------------|----------------------|
| HS-DSCH MAC-d Flow | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Specific Information | | ofMACdFl | | | | |
| Response | | OWS> | | | | |
| >HS-DSCH MAC-d Flow ID | M | | 9.2.1.311 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | | _ | |
| >HS-DSCH Initial Capacity | 0 | | 9.2.1.31Ha | | _ | |
| Allocation | | | | | | |
| HS-SCCH Specific Information Response | | 0 <maxno ofHSSCC Hcodes></maxno | | | _ | |
| >Code Number | M | 11000032 | INTEGER | | | |
| >Code Number | IVI | | (0127) | | | |
| HARQ Memory Partitioning | 0 | | 9.2.1.102 | | _ | |
| HARQ Preamble Mode Activation Indicator | 0 | | 9.2.2.18b | | YES | ignore |
| MIMO N/M Ratio | 0 | | 9.2.2.96 | | YES | ignore |
| SixtyfourQAM DL Usage Indicator | 0 | | 9.2.2.74B | | YES | ignore |
| HS-DSCH TB Size Table Indicator | 0 | | 9.2.2.18Ee | | YES | ignore |
| Support of dynamic DTXDRX related HS-SCCH order | 0 | | 9.2.2.146 | | YES | ignore |

| Range Bound | Explanation |
|--------------------|---------------------------------------|
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows |
| maxnoofHSSCCHcodes | Maximum number of HS-SCCH codes |

9.2.2.18EA HS-DSCH FDD Secondary Serving Information Response

The HS-DSCH Secondary Serving Information Response provides information for Secondary Serving HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|---|-----------------------|--------------------------|-------------|----------------------|
| HS-SCCH Specific Secondary Serving Information Response | | 0 <maxn oofHSSC CHcodes ></maxn | | | | |
| >Code Number | M | | INTEGER (0127) | | | |
| SixtyfourQAM DL Usage Indicator | 0 | | 9.2.2.74B | | | |
| HS-DSCH TB Size Table Indicator | 0 | | 9.2.2.18Ee | | | |
| MIMO N/M Ratio | 0 | | 9.2.2.96 | | YES | ignore |

| Range Bound | Explanation |
|--------------------|---------------------------------|
| maxnoofHSSCCHcodes | Maximum number of HS-SCCH codes |

9.2.2.18EB HS-DSCH FDD Secondary Serving Information To Modify

The HS-DSCH FDD Secondary Serving Information To Modify IE is used for modification of Secondary Serving HS-DSCH information in a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---------------------------------------|-------------------------|-------|-----------------------------------|---|-------------|----------------------|
| HS-SCCH Power Offset | 0 | | 9.2.2.181 | - | - | _ |
| Measurement Power Offset | 0 | | 9.2.2.21C | | - | |
| HS-SCCH Code Change Grant | 0 | | 9.2.1.31L | | - | |
| Sixtyfour QAM Usage Allowed Indicator | 0 | | 9.2.2.74A | | - | |
| MIMO Mode Indicator | 0 | | 9.2.1.120 | | YES | reject |
| Single Stream MIMO Mode Indicator | 0 | | 9.2.2.124 | | YES | reject |
| Diversity Mode | 0 | | 9.2.2.9 | If Diversity mode = "Closed loop mode 1" the procedure shall be rejected | YES | reject |
| Transmit Diversity Indicator | C- DiversityM ode | | 9.2.2.53 | | YES | reject |
| Non Cell Specific Tx Diversity | 0 | | ENUMERAT ED (Tx Diversity,) | Value = "Tx Diversity": Diversity Mode and Transmit Diversity Indicator shall be non cell specific. | YES | reject |

| Condition | Explanation |
|---------------|--|
| DiversityMode | The IE shall be present if <i>Diversity Mode</i> IE is is present and not set to |
| | "None". |

9.2.2.18EC HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised

The *HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised* IE is used for modification of Secondary Serving HS-DSCH information in a Node B Communication Context with the Unsynchronised Radio Link Reconfiguration procedure.

| IE/Group Name | Presence | Range | IE Type and | Semantics | Criticality | Assigned |
|----------------------|----------|-------|-------------|-------------|-------------|-------------|
| | | | Reference | Description | | Criticality |
| HS-SCCH Power Offset | 0 | | 9.2.2.181 | | - | |
| Sixtyfour QAM Usage | 0 | | 9.2.2.74A | | - | |
| Allowed Indicator | | | | | | |
| MIMO Mode Indicator | 0 | | 9.2.1.120 | | YES | reject |
| Single Stream MIMO | 0 | | 9.2.2.124 | | YES | reject |
| Mode Indicator | | | | | | |

9.2.2.18Ea HS-DSCH FDD Update Information

The *HS-DSCH FDD Update Information* IE provides information for HS-DSCH to be updated. At least one IE shall be present.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--------------------------------|----------|-------|-----------------------------|--------------------------|-------------|-------------------------|
| HS-SCCH Code Change Indicator | 0 | | 9.2.1.31K | | - | |
| CQI Feedback Cycle k | 0 | | 9.2.2.21B | | _ | |
| CQI Repetition Factor | 0 | | 9.2.2.4Cb | | _ | |
| ACK-NACK Repetition Factor | 0 | | 9.2.2.a | | _ | |
| CQI Power Offset | 0 | | 9.2.2.4Ca | | _ | |
| ACK Power Offset | 0 | | 9.2.2.b | | _ | |
| NACK Power Offset | 0 | | 9.2.2.23a | | _ | |
| HS-PDSCH Code Change Indicator | 0 | | 9.2.1.31M | | YES | ignore |

9.2.2.18Eaa HS-DSCH FDD Secondary Serving Update Information

The *HS-DSCH FDD Secondary ServingUpdate Information* IE provides information for Secondary Serving HS-DSCH to be updated. At least one IE shall be present.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------------|----------|-------|--------------------------|---|
| HS-SCCH Code Change Indicator | 0 | | 9.2.1.31K | |
| HS-PDSCH Code Change Indicator | 0 | | 9.2.1.31M | This IE shall never be included. If received it shall be ignored. |

9.2.2.18Eb HS-DSCH Serving Cell Change Information

The HS-DSCH Serving Cell Change Information IE contains information which is used in HS-DSCH Serving Cell change.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|--|--------------------------|-------------|-------------------------|
| HS-PDSCH RL ID | М | | RL ID 9.2.1.53 | | - | |
| HS-DSCH Information | 0 | | HS-DSCH FDD Information 9.2.2.18D | | _ | |
| HS-DSCH-RNTI | М | | 9.2.1.31J | | _ | |
| Continuous Packet Connectivity HS-SCCH less Information | 0 | | 9.2.2.68 | | YES | reject |
| Continuous Packet Connectivity DTX-DRX Information | 0 | | 9.2.2.66 | | YES | reject |

9.2.2.18Ec HS-DSCH Serving Cell Change Information Response

The *HS-DSCH Serving Cell Change Information Response* IE contains information which is used in HS-DSCH Serving Cell change.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------------|--------------------------|-------------|----------------------|
| CHOICE Serving Cell Change | | | | | _ | |
| >Successful | | | | | | |
| >>HS-DSCH FDD Information Response | М | | 9.2.2.18E | | _ | |
| >>Continuous Packet Connectivity HS-SCCH less Information Response | 0 | | 9.2.2.69 | | YES | ignore |
| >Unsuccessful | | | | | | |
| >>Cause | M | | 9.2.1.6 | | _ | |

9.2.2.18Eca HS-DSCH Secondary Serving Cell Change Information Response

The *HS-DSCH Secondary Serving Cell Change Information Response* IE contains information which is used in HS-DSCH Secondary Serving Cell change.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Secondary Serving | | | | |
| Cell Change | | | | |
| >Successful | | | | |
| >>HS-DSCH FDD | M | | 9.2.2.18EA | |
| Secondary Serving | | | | |
| Information Response | | | | |
| >Unsuccessful | | | | |
| >>Cause | M | | 9.2.1.6 | |

9.2.2.18Ed E-DCH Serving Cell Change Information Response

The *E-DCH Serving Cell Change Information Response* IE contains information which is used in E-DCH Serving Cell change.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|----------------------------------|--------------------------|-----------------------|
| CHOICE Serving Cell Change | | | | |
| >Successful | | | | |
| >>RL Information Response | | 0 <maxno ofRLs></maxno | | |
| >>>RL ID | M | | 9.2.1.53 | |
| >>>E-DCH FDD DL Control Channel | M | | 9.2.2.13Dc | |
| Information | | | | |
| >Unsuccessful | | | | |
| >>Cause | M | | 9.2.1.6 | |

| Range bound | Explanation | | |
|-------------|----------------------------------|--|--|
| maxnoofRLs | Maximum number of RLs for one UE | | |

9.2.2.18Ee HS-DSCH TB Size Table Indicator

The *HS-DSCH TB Size Table Indicator* IE is used to indicate that octet aligned table (3GPP TS 25.321 [32]) shall be used.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--------------------------|-----------------------|
| HS-DSCH TB Size Table | | | ENUMERATED | |
| Indicator | | | (octet aligned) | |

9.2.2.18F HS-PDSCH FDD Code Information

This parameter defines the codes which will be assigned for HS-PDSCHs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|--------------------|-------|---|-----------------------|
| Number Of HS-PDSCH Codes | М | | INTEGER (0maxHS-PDSCHC odeNrComp-1) | |
| Start Code Number | C- NumCode s | | INTEGER (1maxHS-PDSCHC odeNrComp-1) | |

| Condition Explanation | | | |
|-----------------------|---|--|--|
| NumCodes | The IE shall be present if the Number Of HS-PDSCH Codes IE is set | | |
| | to a value greater than 0. | | |

| Range Bound | Explanation |
|-----------------------|---|
| MaxHS-PDSCHCodeNrComp | Maximum number of codes at the defined spreading factor, within the |
| | complete code tree |

9.2.2.18G HS-SCCH FDD Code Information

This parameter defines the codes which will be assigned for HS-SCCH. The Node B will assign codes for HS-SCCHs among these codes when it sets up a HS-DSCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|---|--|-----------------------|
| CHOICE replaceremove | M | | | |
| >replace | | | | |
| >>HS-SCCH Code | | 1 <maxno ofHSSCC Hs></maxno | | |
| >>>Code Number | М | | INTEGER (0maxHS-SCCHCo deNrComp-1) | |
| >remove | | | NULL | |

| Range Bound | Explanation |
|----------------------|---|
| MaxnoofHSSCCHs | Maximum number of HS-SCCHs for one cell. |
| MaxHS-SCCHCodeNrComp | Maximum number of codes at the defined spreading factor, within the |
| | complete code tree |

9.2.2.18H HS-SCCH ID

Void.

9.2.2.18I HS-SCCH Power Offset

The *HS-SCCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when FDPCH is configured. When F-DPCH is configured, the *HS-SCCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| HS-SCCH Power Offset | | | INTEGER (0255) | Unit: dB |
| | | | | Range: -32 +31.75 dB |
| | | | | Step: 0.25 dB |

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9.2.2.18K Initial DL DPCH Timing Adjustment Allowed

The Initial DL DPCH Timing Adjustment Allowed IE indicates that the Node B is allowed to perform a timing adjustment (either a timing advance or a timing delay with respect to the SFN timing) when establishing a radio link.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|------------------------|----------|-------|-------------------|-----------------------|
| | | | Reference | |
| Initial DL DPCH Timing | | | ENUMERATED (| |
| Adjustment Allowed | | | initial DL DPCH | |
| | | | Timing Adjustment | |
| | | | Allowed) | |

9.2.2.19 Max Adjustment Period

Void.

9.2.2.20 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level during a certain number of slots that can be utilised by the downlink power balancing algorithm. Max Adjustment Step IE defines a time period, in terms of number of slots, in which the accumulated power adjustment shall be maximum 1dB. This value does not include the DL inner loop PC adjustment.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| Max Adjustment Step | | | INTEGER (110) | Unit: Slots |

9.2.2.20A Max Number Of PCPCHs

Void.

9.2.2.20B Max Number Of UL E-DPDCHs

Void.

9.2.2.20C Maximum Set of E-DPDCHs

The Maximum Set of E-DPDCHs as defined in TS 25.212 [8]. Needed by rate matching algorithm.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-------------------------|----------|-------|-------------------|-----------------------|
| | | | Reference | |
| Maximum Set of E-DPDCHs | | | ENUMERATED | |
| | | | (vN256, vN128, | |
| | | | vN64, vN32, vN16, | |
| | | | vN8, vN4, v2xN4, | |
| | | | v2xN2, | |
| | | | v2xN2plus2xN4,, | |
| | | | v2xM2plus2xM4) | |

Maximum Number Of Retransmissions For E-DCH 9.2.2.20D

Void

9.2.2.20E MAC-es Guaranteed Bit Rate

Void

9.2.2.20F MAC-e Reset Indicator

Void

9.2.2.21 Maximum Number Of UL DPDCHs

Maximum number of uplink DPDCHs to be used during the connection. Needed by the rate matching algorithm.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Max Number Of UL DPDCHs | | | INTEGER (16) | |

9.2.2.21a Maximum Target Received Total Wide Band Power

The Maximum Target Received Total Wide Band Power indicates the maximum target UL interference for a certain cell under CRNC, including received wide band power from all sources.

| Presence | Range | IE Type and | Semantics Description |
|----------|----------|----------------|--|
| | | Reference | |
| | | INTEGER (0621) | The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in TS 25.133 [22]. |
| | Presence | Presence Range | Reference |

9.2.2.21b Target Non-serving E-DCH to Total E-DCH Power Ratio

The Target Non-serving E-DCH to Total E-DCH Power Ratio indicates the target ratio of the received E-DCH power from non-serving UEs to the received total E-DCH power.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|--------------------------|
| Target Non-serving E-DCH to Total E-DCH Power Ratio | | | INTEGER (0100) | Unit: % Range: 0100 % |
| | | | | Step: 1 % |

9.2.2.21A Maximum PDSCH Power

Void.

9.2.2.21B CQI Feedback Cycle k

The CQI Feedback Cycle k IE provides the duration of the CQI feedback cycle.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|----------------------|--------------------------------|
| | | | Reference | |
| CQI Feedback Cycle k | | | ENUMERATED | Unit ms |
| | | | (0, 2, 4, 8, 10, 20, | The allowed values for this IE |
| | | | 40, 80, 160,, 16, | depend on the configured CQI |
| | | | 32, 64) | Repetition Factor and the HS- |
| | | | | DSCH configuration as defined |
| | | | | in TS 25.214 [10]. |

9.2.2.21C Measurement Power Offset

The Measurement Power Offset IE is used as described in ref TS 25.214 [10] subclause 6A.2.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| Measurement Power Offset | | | INTEGER (-1226) | Unit: dB |
| | | | | Range: -613dB |
| | | | | Step: 0.5dB |

9.2.2.21D MICH Mode

The number of Notification Indicators (NIs) transmitted in a MICH frame.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-------------------------|
| MICH Mode | | | ENUMERATED | Number of NIs per frame |
| | | | (18, 36, 72, 144,, | · |
| | | | 16, 32,64,128) | |

9.2.2.22 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is used during the connection. Needed by rate matching algorithm.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Min UL Channelisation Code | | | ENUMERATED | |
| Length | | | (4, 8, 16, 32, 64, | |
| | | | 128, 256,) | |

9.2.2.22a Min UL Channelisation Code Length For E-DCH FDD

Void.

9.2.2.23 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------|----------|-------|--------------|-----------------------|
| | | | Reference | |
| Multiplexing Position | | | ENUMERATED (| |
| | | | Fixed, | |
| | | | Flexible) | |

9.2.2.23a NACK Power Offset

The *NACK Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ NACK information and the associated DPCCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|---|
| NACK Power Offset | | | INTEGER (08,) | According to mapping in ref. TS 25.213 [9] subclause 4.2.1. |

9.2.2.23A N_EOT

Void.

9.2.2.23B NF_max

Void.

9.2.2.23C N_Start_Message

Void.

9.2.2.23D Number Of Reported Cell Portions

Number of Reported Cell Portions indicates the number of Best Cell Portions values which shall be included in the measurement report.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Number Of Reported Cell | | | INTEGER (164,) | |
| Portions | | | | |

9.2.2.24 Pattern Duration (PD)

Void.

9.2.2.24A PCP Length

Void.

9.2.2.25 PDSCH Code Mapping

Void.

9.2.2.26 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|-------------------------------|-------------------------|
| PICH Mode | | | ENUMERATED (18, 36, 72, 144,) | Number of PIs per frame |

9.2.2.27 Power Adjustment Type

Defines the characteristic of the power adjustment.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|---|-----------------------|
| Power Adjustment Type | | | ENUMERATED (None, Common, Individual) | |

9.2.2.28 Power Control Mode

Void.

9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPDCH in case the Node B Communication Context is configured to use DPCH in the downlink or relative to a Secondary CCPCH data field.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Power Offset | | | INTEGER (024) | Unit: dB |
| | | | | Range: 06 dB |
| | | | | Step: 0.25 dB |

9.2.2.29A Power_Raise_Limit

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Power_Raise_Limit | | | INTEGER (010) | Unit: dB |
| | | | | Range: 010 dB |
| | | | | Step: 1 dB |

9.2.2.30 Power Resume Mode

Void.

9.2.2.31 Preamble Signature

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|-----------------------|--|
| Preamble Signatures | | | BIT STRING (16) | Each bit indicates availability for a signature, where the signatures are numbered "signature 0" up to "signature 15". The value 1 of a bit indicates that the corresponding signature is available and the value 0 that it is not available. The order of bits is to be interpreted according to subclause 9.3.4. See also TS 25.213 [9]. |

9.2.2.32 Preamble Threshold

The IE sets the threshold for preamble detection. The ratio between received preamble power during the preamble period and interference level shall be above this threshold in order to be acknowledged.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------|----------|-------|---------------|-----------------------|
| | | | Reference | |
| Preamble Threshold | | | INTEGER (072) | Unit: dB |
| | | | | Range: -36 0 dB |
| | | | | Step: 0.5 dB |

9.2.2.33 Primary CPICH Power

The Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------|----------|-------|-------------|-----------------------|
| | | | Reference | |
| Primary CPICH Power | | | INTEGER | Value = Primary CPICH |
| | | | (-100500) | Power/10 |
| | | | | Unit: dBm |
| | | | | Range: -10.0+50.0 dBm |
| | | | | Step: 0.1 dB |

9.2.2.33A Primary CPICH Usage For Channel Estimation

The *Primary CPICH Usage For Channel Estimation* IE indicates whether the Primary CPICH may be used for channel estimation or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Primary CPICH Usage For | | | ENUMERATED (| |
| Channel Estimation | | | Primary CPICH may | |
| | | | be used, | |
| | | | Primary CPICH shall | |
| | | | not be used) | |

9.2.2.34 Primary Scrambling Code

The Primary scrambling code to be used in the cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Primary Scrambling Code | | | INTEGER (0511) | |

9.2.2.35 Propagation Delay

The Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. If the range of the *Propagation Delay* IE is insufficient to represent the measured value, the *Propagation Delay* IE shall be set to its maximum value, and the *Extended Propagation Delay* IE shall be used to represent the propagation delay value, see subclause 9.2.2.35A.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|---------------------------------|
| Propagation Delay | | | INTEGER (0255) | Unit: chip Range: 0765 chips |
| | | | | Step: 3 chips |

9.2.2.35A Extended Propagation Delay

The Extended Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. It shall be used if the *Propagation Delay* IE (see 9.2.2.35) cannot represent the measured value, due to range limitation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|---|
| Extended Propagation Delay | | | INTEGER (2551023) | Continuation of intervals as defined in TS 25.133 [22]. Unit: chip Range: 7653069 chips Step: 3 chips |

9.2.2.36 QE-Selector

Void.

9.2.2.36A Qth Parameter

Void.

9.2.2.37 RACH Slot Format

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|-------------------------|
| RACH Slot Format | | | ENUMERATED (03,) | See ref. TS 25.211 [7]. |

9.2.2.38 RACH Sub Channel Numbers

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|--|
| RACH Sub Channel Numbers | | | BIT STRING (12) | Each bit indicates availability for a subchannel, where the subchannels are numbered "subchannel 0" to "subchannel 11". The value 1 of a bit indicates that the corresponding subchannel is available and the value 0 indicates that it is not available. The order of bits is to be interpreted according to subclause 9.3.4. |

9.2.2.39 RL Set ID

The RL Set ID uniquely identifies one RL Set within a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| RL Set ID | | | INTEGER (031) | |

9.2.2.39a RL Specific E-DCH Information

The RL Specific E-DCH Information IE provides RL specific E-DCH Information.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|---|--------------------------|--|
| RL Specific E-DCH Information | | 1 <maxno ofEDCHM ACdFlows</maxno | | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. |
| E-AGCH Power Offset | 0 | | 9.2.2.13ld | |
| E-RGCH Power Offset | 0 | | 9.2.2.13le | |
| E-HICH Power Offset | 0 | | 9.2.2.13lf | |

| Range Bound | Explanation |
|----------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.2.39A Received Total Wide Band Power

The Received total wide band power indicates the UL interference at a certain cell under CRNC, see ref. TS 25.215 [4].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-------|--------------------------|---|
| Received Total Wide Band Power | | | INTEGER (0621) | According to mapping in TS 25.133 [22]. |

9.2.2.39B Reference Received Total Wide Band Power

When sent by the CRNC, the Reference Received Total Wide Band Power indicates the reference UL interference (received noise level) for a certain cell under CRNC. This value may be used for E-DCH scheduling in the Node B.

When reported by the Node B, the Reference Received Total Wide Band Power indicates the reference UL interference (received noise level as an estimate of the noise floor) estimate from the Node B. This value may be used, e.g. for admission or congestion control in the CRNS.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|--|
| Reference Received Total Wide Band Power | | | INTEGER (0621) | The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in TS 25.133 [22]. |

9.2.2.39C Reference Received Total Wide Band Power Reporting

The Reference Received Total Wide Band Power Reporting controls the indication of the Reference Received Total Wide Band Power estimate from the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Reference Received Total | | | ENUMERATED | |
| Wide Band Power Reporting | | | (Reference | |
| . • | | | Received Total Wide | |
| | | | Band Power | |
| | | | Requested) | |

9.2.2.39D Reference Received Total Wide Band Power Support Indicator

The Reference Received Total Wide Band Power Support Indicator indicates whether indication of Reference Received Total Wide Band Power is supported by the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| Reference Received Total | | | ENUMERATED | |
| Wide Band Power Support | | | (Indication of | |
| Indicator | | | Reference Received | |
| | | | Total Wide Band | |
| | | | Power supported) | |

9.2.2.40 S-Field Length

Void.

9.2.2.40A Scheduling Information

Void

9.2.2.41 Scrambling Code Change

Void.

9.2.2.42 Scrambling Code Number

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|------------------------------|
| Scrambling Code Number | | | INTEGER (015) | Identification of scrambling |
| | | | | code see ref. TS 25.213 [9]. |

9.2.2.43 Secondary CCPCH Slot Format

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| Secondary CCPCH Slot | | | INTEGER (017,) | |
| Format | | | | |

9.2.2.43A Secondary CPICH Information Change

The Secondary CPICH Information Change IE indicates modification of information of the Secondary CPICH for channel estimation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--|-----------------------|
| CHOICE Secondary CPICH Information Change | М | | | |
| >New Secondary CPICH | | | | |
| >>Secondary CPICH Information | М | | Common Physical Channel ID 9.2.1.13 | |
| >Secondary CPICH Shall Not Be Used | | | NULL | |

9.2.2.44 SSDT Cell Identity

Void.

9.2.2.44A SSDT Cell Identity For EDSCHPC

Void.

9.2.2.45 SSDT Cell ID Length

Void.

9.2.2.46 SSDT Support Indicator

The SSDT Support Indicator indicates whether a RL supports SSDT or not.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|------------------------|----------|-------|--------------|--------------------------------|
| | | | Reference | |
| SSDT Support Indicator | | | ENUMERATED (| The SSDT Support Indicator IE |
| | | | Not Used, | shall never be set to 'Not |
| | | | SSDT Not | Used'. If received it shall be |
| | | | Supported) | rejected. |

9.2.2.47 SSDT Indication

Void.

9.2.2.48 STTD Indicator

Indicates if STTD shall be active or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------------------|-----------------------|
| STTD Indicator | | | ENUMERATED (active, inactive, | |

9.2.2.48A Synchronisation Indicator

The *Synchronisation Indicator* IE indicates that Timing Maintained Synchronisation shall be used at start of Radio Link, see also TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Synchronisation Indicator | | | ENUMERATED | |
| , | | | (Timing Maintained | |
| | | | Synchronisation,) | |

9.2.2.48B Serving E-DCH RL

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Serving E-DCH RL | М | | | |
| >Serving E-DCH RL in this Node B | | | | |
| >>Serving E-DCH RL ID | М | | RL ID 9.2.1.53 | |
| >Serving E-DCH RL not in this Node B | | | NULL | |

9.2.2.49 T Cell

Timing delay used for defining start of SCH, CPICH and the DL scrambling code(s) in a cell relative BFN. Resolution 256 chips.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|--|
| T Cell | | | ENUMERATED (0, 1,,9) | Unit: chip Range: 02304 chips Step: 256 chips See ref. TS 25.402 [17] |

9.2.2.49A TFCI2 Bearer Information Response

Void.

9.2.2.50 TFCI Signalling Mode

This parameter indicates if the normal or split mode is used for the TFCI. In the event that the split mode is to be used then the IE indicates whether the split is "Hard" or "Logical", and in the event that the split is "Logical" the IE indicates the number of bits in TFCI (field 2).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------------------|--|
| TFCI Signalling Option | М | | ENUMERATED (Normal, Not Used) | The value "Not Used" shall not be used by the CRNC. The procedure shall be rejected by the Node B if the value "Not Used" is received. |
| Not Used | 0 | | NULL | |
| Not Used | 0 | | NULL | |

9.2.2.51 TGD

Void.

9.2.2.52 TGL

Void.

9.2.2.53 Transmit Diversity Indicator

The Transmit Diversity Indicator indicates whether transmit diversity shall be active or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|--------------------------|-----------------------|
| Transmit Diversity Indicator | | | ENUMERATED (| |
| | | | active, | |
| | | | inactive) | |

9.2.2.53A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see ref. TS 25.331 [18].

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| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|------------------------------|---|---|
| Transmission Gap Pattern Sequence Information | | 1 <maxt GPS></maxt | | |
| >TGPS Identifier | M | 0.07 | INTEGER (1maxTGPS) | Transmission Gap Pattern Sequence Identifier: Establish a reference to the compressed mode pattern sequence. Up to <maxtgps> simultaneous compressed mode pattern sequences can be used.</maxtgps> |
| >TGSN | М | | INTEGER (014) | Transmission Gap Starting Slot Number: The slot number of the first transmission gap slot within the TGCFN. |
| >TGL1 | М | | INTEGER (114) | The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots. |
| >TGL2 | 0 | | INTEGER (114) | The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1. |
| >TGD | M | | INTEGER (0, 15 269) | Transmission Gap Distance: indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gap pattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to "0" ("0" =undefined). |
| >TGPL1 | M | | INTEGER | The duration of transmission |
| >Not-to-be-used-1 | 0 | | (1144,) INTEGER (1144,) | gap pattern 1 in frames. This IE shall never be included in the IE group. If received it shall be ignored. |
| >UL/DL Mode | М | | ENUMERATED (UL only, DL only, UL/DL) | Defines whether only DL, only UL or combined UL/DL compressed mode is used. |
| >Downlink Compressed Mode Method | C-DL | | ENUMERATED (Not Used, SF/2, Higher Layer Scheduling,) | Method for generating downlink compressed mode gap. The Downlink Compressed Mode Method IE shall never be set to 'Not Used'. |
| >Uplink Compressed Mode Method | C-UL | | ENUMERATED (SF/2, Higher Layer Scheduling,) | Method for generating uplink compressed mode gap. |
| >Downlink Frame Type | М | | ENUMERATED (A, B,) | Defines if frame structure type "A" or "B" shall be used in downlink compressed mode. |
| >DeltaSIR1 | M | | INTEGER (030) | Delta in SIR target value to be set in the Node B during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). Unit: dB Range: 03 dB Step: 0.1 dB |

| >DeltaSIRafter1 | M | INTEGER (030) | Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the first transmission gap in the transmission gap pattern. Unit: dB Range: 03 dB Step: 0.1 dB |
|-----------------|---|---------------|--|
| >DeltaSIR2 | 0 | INTEGER (030) | Delta in SIR target value to be set in the Node B during the frame containing the start of the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). When omitted, DeltaSIR2 = DeltaSIR1. Unit: dB Range: 03 dB Step: 0.1 dB |
| >DeltaSIRafter2 | 0 | INTEGER (030) | Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Unit: dB Range: 03 dB Step: 0.1 dB |

| Condition | Explanation |
|-----------|--|
| UL | The IE shall be present if the UL/DL mode IE is set to "UL only" or |
| | "UL/DL". |
| DL | The IE shall be present if the <i>UL/DL mode</i> IE is set to "DL only" or |
| | "UL/DL". |

| Range Bound | Explanation |
|-------------|--|
| maxTGPS | Maximum number of transmission gap pattern sequences |

9.2.2.53B Transmission Gap Pattern Sequence Code Information

This IE indicates whether the alternative scrambling code shall used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see TS 25.213 [9].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---|----------|-------|---|--|
| | | | Reference | |
| Transmission Gap Pattern Sequence Code Information | | | ENUMERATED (Code Change, No Code Change) | Indicates whether the alternative scrambling code is used for compressed mode method "SF/2". |

9.2.2.54 UL/DL compressed mode selection

Void.

9.2.2.55 UL delta SIR

Void.

9.2.2.56 UL delta SIR after

Void.

9.2.2.57 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. TS 25.211 [7].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|--|
| UL DPCCH Slot Format | | | INTEGER (05,) | Value 5 shall not be used. If value 5 is received, the |
| | | | | procedure shall be rejected. |

9.2.2.58 UL SIR

Void.

9.2.2.59 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|-------------------------------|-----------------------|
| UL Scrambling Code Number | M | | INTEGER (02 ²⁴ -1) | |
| UL Scrambling Code Length | M | | ENUMERATED (| |
| | | | Short, | |
| | | | Long) | |

9.2.2.60 UL Capacity Credit

Void.

9.2.2.61 UL DPDCH Indicator For E-DCH Operation

The UL DPDCH Indicator For E-DCH Operation parameter indicates whether some UL DPCH parameters should be ignored or not in the message in which the *UL DPDCH Indicator For E-DCH Operation* IE was included or that any UL DPDCH resources shall be removed from the communication context configuration.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|---|-----------------------|
| UL DPDCH Indicator For E- DCH Operation | | | ENUMERATED (UL-DPDCH present, UL-DPDCH not | |
| | | | present) | |

9.2.2.62 Fast Reconfiguration Mode

The Fast Reconfiguration Mode IE is used to notify the Node B that the SRNC would like to use the activation time 'when the UE is detected on the new configuration' as the timing for the reconfiguration.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Fast Reconfiguration Mode | | | ENUMERATED (| |
| | | | Fast) | |

9.2.2.63 Fast Reconfiguration Permission

The Fast Reconfiguration Permission IE is used to indicate to the CRNC that the Node B can apply the activation time 'when the UE is detected on the new configuration' for this reconfiguration.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| Fast Reconfiguration | | | ENUMERATED (| |
| Permission | | | Allowed,) | |

9.2.2.64 Continuous Packet Connectivity DTX-DRX Capability

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|--------------------|-----------------------|
| | | | Reference | |
| Continuous Packet | | | ENUMERATED | |
| Connectivity DTX-DRX | | | (Continuous Packet | |
| Capability | | | Connectivity DTX- | |
| · | | | DRX Capable, | |
| | | | Continuous Packet | |
| | | | Connectivity DTX- | |
| | | | DRX Non-Capable) | |

9.2.2.65 Continuous Packet Connectivity HS-SCCH less Capability

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------------|----------|-------|--------------------|-----------------------|
| | | | Reference | |
| Continuous Packet | | | ENUMERATED | |
| Connectivity HS-SCCH less | | | (Continuous Packet | |
| Capability | | | Connectivity HS- | |
| | | | SCCH less Capable, | |
| | | | Continuous Packet | |
| | | | Connectivity HS- | |
| | | | SCCH less Non- | |
| | | | Capable) | |

9.2.2.66 Continuous Packet Connectivity DTX-DRX Information

The *Continuous Packet Connectivity DTX-DRX Information* IE defines the parameters used for Continuous Packet Connectivity DTX-DRX operation (see ref. TS 25.214 [10]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|---|--|
| UE DTX DRX Offset | M | | INTEGER (0159) | Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI |
| Enabling Delay | M | | ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128) | Units of radio frames |
| DTX Information | | 1 | | |
| >CHOICE E-DCH TTI Length | M | | | |
| >>2ms | | | | |
| >>>UE DTX Cycle 1 | M | | ENUMERATED (1, 4, 5, 8, 10, 16, 20) | Units of subframes |
| >>>UE DTX Cycle 2 | M | | ENUMERATED (4, | Units of subframes |

| | 1 | 1 | 5 0 40 40 00 00 | T |
|--|-----|-----|---|-----------------------------|
| | | | 5, 8, 10, 16, 20, 32, | |
| >>>MAC DTX Cycle | M | | 40, 64, 80, 128, 160) ENUMERATED (1, | Units of subframes |
| >>>IVIAC DTA Cycle | IVI | | 4, 5, 8, 10, 16, 20) | Units of subframes |
| >>10ms | | | 4, 3, 6, 10, 10, 20) | |
| >>UE DTX Cycle 1 | М | | ENUMERATED (1, | Units of subframes |
| 2770E B177 Gydio 1 | 101 | | 5, 10, 20) | Office of Submarries |
| >>>UE DTX Cycle 2 | М | | ENUMERATED (5, | Units of subframes |
| • | | | 10, 20, 40, 80, 160) | |
| >>>MAC DTX Cycle | M | | ENUMERATED (5, | Units of subframes |
| _ | | | 10, 20) | |
| >Inactivity Threshold for UE | M | | ENUMERATED (1, | Units of E-DCH TTIs |
| DTX Cycle 2 | | | 4, 8, 16, 32, 64, 128, | |
| | | | 256) | |
| >UE DTX Long Preamble | M | | ENUMERATED | Units of slots |
| | | | (2,4,15) | |
| >MAC Inactivity Threshold | M | | ENUMERATED (1, | Units of E-DCH TTIs |
| | | | 2, 4, 8, 16, 32, 64, | |
| | | | 128, 256, 512, | |
| | | | Infinity) | |
| >CQI DTX Timer | M | | ENUMERATED (0, | Units of subframes |
| | | | 1, 2, 4, 8, 16, 32, 64, | |
| | | | 128, 256, 512, | |
| | | | Infinity) | |
| >UE DPCCH burst1 | M | | ENUMERATED (1, | Units of subframes |
| LIE BROOKLI | | | 2, 5) | |
| >UE DPCCH burst2 | M | | ENUMERATED (1, | Units of subframes |
| DDV Information | | 0.4 | 2, 5) | |
| DRX Information | N 4 | 01 | ENUMEDATED // | Holte of subforces |
| >UE DRX Cycle | M | | ENUMERATED (4, | Units of subframes |
| . In a stirite. Threads ald for LIC | N/A | | 5, 8, 10, 16, 20) | Units of subframes |
| >Inactivity Threshold for UE | M | | ENUMERATED (0, | Units of subframes |
| DRX Cycle | | | 1, 2, 4, 8, 16, 32, 64, | |
| > Inactivity Throshold for U.C. | M | | 128, 256, 512) ENUMERATED (0, | Units of E-DCH TTIs |
| >Inactivity Threshold for UE Grant Monitoring | IVI | | | OTHES OF E-DCH TTIS |
| Grant Worldoning | | | 1, 2, 4, 8, 16, 32, 64, 128, 256) | |
| >UE DRX Grant Monitoring | M | | BOOLEAN | True: DRX Grant Monitoring |
| >UE DRA Grant Monitoring | IVI | | DOULEAN | shall be applied. |
| | | | | False: DRX Grant Monitoring |
| | | | | shall not be applied. |
| 1 | | 1 | | Shall hot be applied. |

9.2.2.67 Continuous Packet Connectivity DTX-DRX Information To Modify

The Continuous Packet Connectivity DTX-DRX Information To Modify IE is used for modification of Continuous Packet Connectivity DTX-DRX information in a Node B Communication Context. The Continuous Packet Connectivity DTX-DRX Information To Modify IE shall include at least one of the following IE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|---|--|
| UE DTX DRX Offset | 0 | | INTEGER (0159) | Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI |
| Enabling Delay | 0 | | ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128) | Units of radio frames |
| CHOICE DTX Information To Modify | 0 | | | |
| >Modify | | | | |
| >>CHOICE E-DCH TTI Length | 0 | | | |
| >>>2ms | | | | |
| >>>UE DTX Cycle 1 | М | | ENUMERATED (1, 4, 5, 8, 10, 16, 20) | Units of subframes |
| >>>>UE DTX Cycle 2 | M | | ENUMERATED (4, | Units of subframes |

| | T | T = 0 +0 +0 00 00 | T |
|----------------------------------|-----|---|-----------------------------|
| | | 5, 8, 10, 16, 20, 32, | |
| MAC DTV Cycle | M | 40, 64, 80, 128, 160) ENUMERATED (1, | Units of subframes |
| >>>MAC DTX Cycle | IVI | | Units of subframes |
| 4000 | | 4, 5, 8, 10, 16, 20) | |
| >>>10ms | 104 | ENILINAEDATED (4 | Heite of existences |
| >>>UE DTX Cycle 1 | M | ENUMERATED (1, 5, 10, 20) | Units of subframes |
| >>>UE DTX Cycle 2 | M | ENUMERATED (5, 10, 20, 40, 80, 160) | Units of subframes |
| >>>MAC DTX Cycle | M | ENUMERATED (5, 10, 20) | Units of subframes |
| >>Inactivity Threshold for | 0 | ENUMERATED (1, | Units of E-DCH TTIs |
| UE DTX Cycle 2 | | 4, 8, 16, 32, 64, 128, 256) | |
| >>UE DTX Long Preamble | 0 | ENUMERATED (2,4,15) | Units of slots |
| >>MAC Inactivity | 0 | ENUMERATED (1, | Units of E-DCH TTIs |
| Threshold | | 2, 4, 8, 16, 32, 64, | |
| | | 128, 256, 512, | |
| | | Infinity) | |
| >>CQI DTX Timer | 0 | ENUMERATED (0, | Units of Subframes |
| | | 1, 2, 4, 8, 16, 32, 64, | |
| | | 128, 256, 512, | |
| | | Infinity) | |
| >>UE DPCCH burst1 | 0 | ENUMERATED (1, | Units of Subframes |
| | | 2, 5) | |
| >>UE DPCCH burst2 | 0 | ENUMERATED (1, | Units of Subframes |
| | | 2, 5) | |
| >Deactivate | | NULL | |
| CHOICE DRX Information To Modify | 0 | | |
| >Modify | | | |
| >>UE DRX Cycle | 0 | ENUMERATED (4, | Units of subframes |
| _ | | 5, 8, 10, 16, 20) | |
| >>Inactivity Threshold for | 0 | ENUMERATED (0, | Units of subframes |
| UE DRX Cycle | | 1, 2, 4, 8, 16, 32, 64, | |
| | | 128, 256, 512) | |
| >>Inactivity Threshold for | 0 | ENUMERATED (0, | Units of E-DCH TTIs |
| UE Grant Monitoring | | 1, 2, 4, 8, 16, 32, 64, 128, 256) | |
| >>UE DRX Grant | 0 | BOOLEAN | True: DRX Grant Monitoring |
| Monitoring | | | shall be applied. |
| | | | False: DRX Grant Monitoring |
| | | | shall not be applied. |
| >Deactivate | | NULL | |

9.2.2.68 Continuous Packet Connectivity HS-SCCH less Information

The *Continuous Packet Connectivity HS-SCCH less Information* IE defines the parameters used for Continuous Packet Connectivity HS-SCCH less operation (see ref. TS 25.214 [10]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|---|--------------------------------------|---|
| Transport Block Size List | | 1 <maxno ofHS- DSCHTBS sHS- SCCHless ></maxno | | |
| >Transport Block Size Index | M | | INTEGER (1maxnoofHS-DSC HTBSs) | |
| >HS-PDSCH Second Code Support | M | | BOOLEAN | True = The second HS- PDSCH code shall also be used |

| | False = The second HS- |
|--|------------------------------|
| | PDSCH code shall not be used |

| Range Bound | Explanation |
|-------------------------------|--|
| maxnoofHS-DSCHTBSsHS-SCCHless | Maximum number of HS-DSCH Transport Block Sizes used for HS- |
| | SCCH-less operation |
| maxnoofHS-DSCHTBSs | Maximum number of HS-DSCH Transport Block Sizes |

9.2.2.69 Continuous Packet Connectivity HS-SCCH less Information Response

The *Continuous Packet Connectivity HS-SCCH less Information Response* IE provides information for HS-SCCH less operation determined within the Node B (see ref. TS 25.214 [10]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|---------------|-----------------|---|---|
| HS-PDSCH First Code Index | М | | INTEGER (1maxHS-PDSCHC odeNrComp-1) | Index of first HS-PDSCH code |
| HS-PDSCH Second Code Index | 0 | | INTEGER (1maxHS-PDSCHC odeNrComp-1) | Index of second HS-PDSCH code See NOTE 1. |
| NOTE 1: The "HS-PDSCH sec by 1. | ond code inde | x" value is the | value of IE "HS-PDSCH | H First Code Index" incremented |

9.2.2.69A Continuous Packet Connectivity HS-SCCH less Deactivate Indicator

The Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE is used to deactivate HS-SCCH less operation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Continuous Packet | M | | NULL | |
| Connectivity HS-SCCH less | | | | |
| Deactivate Indicator | | | | |

| Range Bound | Explanation |
|-----------------------|---|
| maxHS-PDSCHCodeNrComp | Maximum number of codes at the defined spreading factor, within the |
| | complete code tree |

9.2.2.70 MIMO Capability

Void

9.2.2.71 MIMO Activation Indicator

Void

9.2.2.72 MIMO Mode Indicator

Void

9.2.2.73 MIMO Pilot Configuration

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------------|----------|-------|--|-----------------------|
| CHOICE Pilot Configuration | M | | | |
| >Primary and Secondary CPICH | | | | |
| >>Associated Secondary CPICH | M | | Common Physical Channel ID 9.2.1.13 | |
| >Normal and Diversity Primary CPICH | | | NULL | |

9.2.2.74 SixtyfourQAM DL Capability

Void.

9.2.2.74A Sixtyfour QAM Usage Allowed Indicator

The *Sixtyfour QAM Usage Allowed Indicator* IE indicates whether the Node B is allowed to use 64 QAM modulation for HS-DSCH transmission or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| Sixtyfour QAM Usage Allowed | M | | ENUMERATED | |
| Indicator | | | (Allowed, Not- | |
| | | | Allowed) | |

9.2.2.74B SixtyfourQAM DL Usage Indicator

The SixtyfourQAM DL Usage Indicator IE indicates if the Node B is using 64 QAM modulation for the HS-DSCH transmission, or if the Node B is not using 64 QAM modulation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|---|-----------------------|
| SixtyfourQAM DL Usage Indicator | | | ENUMERATED (SixtyfourQAM DL Used, SixtyfourQAM DL Not Used) | |

9.2.2.75 HS-DSCH Common System Information

The *HS-DSCH Common System Information* IE provides information for HS-DSCH configured for UE in Cell_FACH, in Cell_PCH and in URA_PCH and Information related to BCCH modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|--|--|--|
| HS-DSCH Common Information | | 01 | | |
| >CCCH Priority Queue ID | М | | Priority Queue ID 9.2.1.49C | |
| >SRB#1 Priority Queue ID | M | | Priority Queue ID 9.2.1.49C | |
| >Associated Common MAC Flow | M | | Common MAC Flow ID 9.2.2.79 | The Common MAC Flow ID shall be one of the flow IDs defined in the Common MAC Flow Specific Information of this IE or shall only refer to a Common MAC flow already existing in the old configuration. |
| >FACH Measurement Occasion Cycle Length Coefficient | 0 | | 9.2.2.82 | |
| >RACH Measurement Result | M | | 9.2.2.84 | |
| >BCCH Specific HS-DSCH- RNTI Information | M | | 9.2.2.85 | |
| Common MAC Flow Specific Information | | 0 <maxno ofCommon MACFlows</maxno | | |
| >Common MAC Flow ID | М | | 9.2.2.79 | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. |
| >Common MAC Flow Priority Queue Information | | 0 <maxno ofCommon MACQueu es></maxno | | |
| >>Priority Queue Information for Enhanced FACH | M | | Priority Queue Information for Enhanced FACH/PCH 9.2.1.117 | |
| >Transport Bearer Request Indicator | 0 | | 9.2.1.62A | Shouldn"t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure |

| Range bound | Explanation |
|------------------------|---|
| maxnoofCommonMACFlows | Maximum number of Common MAC Flows |
| maxnoofCommonMACQueues | Maximum number of Priority Queues for Common MAC Flow |

9.2.2.76 HS-DSCH Paging System Information

The HS-DSCH Paging System Information IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|---|--|--|
| Paging MAC Flow Specific Information | | 1 <maxno ofPagingM ACFlow></maxno | | |
| >Paging MAC Flow ID | М | | 9.2.1.113 | |
| >HSDPA Associated PICH Information | М | | 9.2.2.81 | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. |
| >ToAWS | M | | 9.2.1.61 | |
| >ToAWE | M | | 9.2.1.60 | |
| >Paging MAC Flow Priority Queue Information | | 0 <maxno ofPagingM ACQueues ></maxno | | |
| >>Priority Queue Information for Enhanced PCH | M | | Priority Queue Information for Enhanced FACH/PCH 9.2.1.117 | |
| >Transport Bearer Request Indicator | 0 | | 9.2.1.62A | Shouldn"t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure |
| HS-SCCH Power | М | | DL Power 9.2.1.21 | |
| HS-PDSCH Power | М | | DL Power 9.2.1.21 | |
| Number of PCCH transmissions | М | | INTEGER (15) | Number of subframes used to transmit the PCCH. |
| Transport Block Size List | | 1 <maxno ofHS- DSCHTBS sE-PCH></maxno | | |
| >Transport Block Size Index for Enhanced PCH | М | | INTEGER (132) | Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in appendix A of 3GPP TS 25.321 [32] |

| Range bound | Explanation |
|-------------------------|--|
| maxnoofPagingMACFlow | Maximum number of Paging MAC Flows |
| maxnoofPagingMACQueues | Maximum number of Priority Queues for Paging MAC Flow |
| maxnoofHS-DSCHTBSsE-PCH | Maximum number of HS-DSCH Transport Block Sizes used for |
| | Enhanced PCH operation associated HS-SCCH less |

9.2.2.77 HS-DSCH Common System Information Response

The *HS-DSCH Common System Information Response* IE provides information for HS-DSCH configured for UE not in Cell_DCH that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------------|----------|---|-----------------------------|--|
| HS-SCCH Specific Information Response | | 0 <maxno ofHSSCC Hcodes></maxno | | Channelization codes on HS-SCCH is transmitted for UE not in Cell_DCH |
| >Code Number | M | | INTEGER (0127) | First indexed HS-SCCH Channelisation code should be used for the BCCH specific H-RNTI. |

| HARQ Memory Partitioning | 0 | | 9.2.1.102 | |
|---|---|---|------------|--|
| Common MAC Flow Specific Information Response | | 0 <maxno ofCommon MACFlows ></maxno | | |
| >Common MAC Flow ID | M | | 9.2.2.79 | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Layer Address | 0 | | 9.2.1.63 | |
| >HS-DSCH Initial Capacity Allocation | 0 | | 9.2.1.31Ha | |

| Range Bound | Explanation |
|-----------------------|------------------------------------|
| maxnoofCommonMACFlows | Maximum number of Common MAC Flows |
| maxnoofHSSCCHcodes | Maximum number of HS-SCCH codes |

9.2.2.78 HS-DSCH Paging System Information Response

The *HS-DSCH Paging System Information Response* IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|---|---|------------------------|
| Paging MAC Flow Specific Information Response | | 1 <maxno ofPagingM ACFlow></maxno | | |
| >Paging MAC Flow ID | M | | 9.2.1.113 | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Layer Address | 0 | | 9.2.1.63 | |
| >HS-PDSCH Code Index | М | | INTEGER (1maxHS- PDSCHCod eNrComp- 1) | Index of HS-PDSCH code |

| Range bound | Explanation |
|----------------------|------------------------------------|
| maxnoofPagingMACFlow | Maximum number of Paging MAC Flows |

9.2.2.79 Common MAC Flow ID

Common MAC Flow ID is the unique identifier for one Common MAC flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| Common MAC Flow ID | | | INTEGER (07) | |

9.2.2.80 Paging MAC Flow ID

Void.

9.2.2.81 HSDPA Associated PICH Information

The HSDPA Associated PICH Information IE provides information for PICH used for Enhanced PCH operation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|-----------------------------|-----------------------|
| CHOICE HSDPA PICH | | | | |

| >Shared with PCH | | | |
|--|---|-----------|------------------------|
| >>Common Physical Channel ID | М | 9.2.1.13 | |
| >Not shared with PCH | | | |
| >>Common Physical Channel ID | М | 9.2.1.13 | |
| >>FDD DL Channelisation Code Number | М | 9.2.2.14 | |
| >>PICH Power | M | 9.2.1.49A | |
| >>PICH Mode | M | 9.2.2.26 | Number of PI per frame |
| >>STTD Indicator | M | 9.2.2.48 | |

9.2.2.82 FACH Measurement Occasion Cycle Length Coefficient

Void.

9.2.2.83 Priority Queue Information for Enhanced FACH/PCH

Void.

9.2.2.84 RACH Measurement Result

The RACH Measurement Result identifies which RACH measurement result is forwarded to Node B in Frame Protocol.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-------------------------|----------|-------|---------------|-----------------------|
| | | | Reference | |
| RACH Measurement Result | | | ENUMERATED | |
| | | | (CPICH Ec/No, | |
| | | | CPICH RSCP, | |
| | | | Pathloss,) | |

9.2.2.85 BCCH Specific HS-DSCH RNTI Information

The BCCH Specific HS-DSCH RNTI Information IE provides information for BCCH Transmission using HS-DSCH.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------|----------|-------|-------------|-----------------------|
| | | | Reference | |
| BCCH Specific HS-DSCH | M | | HS-DSCH- | |
| RNTI | | | RNTI | |
| | | | 9.2.1.31J | |
| HS-SCCH Power | M | | DL Power | |
| | | | 9.2.1.21 | |
| HS-PDSCH Power | M | | DL Power | |
| | | | 9.2.1.21 | |

9.2.2.86 Enhanced FACH Capability

Void.

9.2.2.87 Enhanced PCH Capability

Void.

9.2.2.88 SixteenQAM UL Capability

This parameter defines the SixteenQAM uplink capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------------|----------|-------|----------------|-----------------------|
| | | | Reference | |
| SixteenQAM UL Capability | | | ENUMERATED | |
| | | | (SixteenQAM UL | |
| | | | Capable, | |
| | | | SixteenQAM UL | |
| | | | Non-Capable) | |

9.2.2.88A SixteenQAM UL Operation Indicator

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| SixteenQAM UL Operation | | | ENUMERATED | |
| Indicator | | | (Activate, | |
| | | | Deactivate) | |

9.2.2.88B E-TFCI Boost Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|--------------------------|-------|--------------------------|---|
| E-TFCI BetaEC Boost | M | | INTEGER (0127,) | E-TFCI threshold beyond which boosting of E-DPCCH is enabled |
| UL Delta T2TP | C-E- TFClboost 127 | | INTEGER (06,) | Total E-DPDCH power across all codes to the combined power of DPCCH and E-DPCCH |

| Condition | Explanation |
|----------------|--|
| E-TFClboost127 | The IE shall be present if the E-TFCI BetaEC Boost |
| | IE value is not set o 127. |

9.2.2.89 SixteenQAM UL Information

Void.

9.2.2.90 SixteenQAM UL Information To Modify

Void.

9.2.2.91 Modulation Power Offset

Indicates the modulation, and power offset in case of 16QAM, to be used for the Secondary CCPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|--|
| CHOICE Modulation | M | | | |
| >QPSK | | | NULL | |
| >QAM | | | | |
| >>CPICH Secondary CCPCH Power Offset | М | | INTEGER (-114,) | Power offset between CPICH and secondary CCPCH. Unit: dB Range: -11 +4 dB Step: 1 dB |

9.2.2.92 Extended Secondary CCPCH Slot Format

Indicates the slot format used for the Secondary CCPCH. The extended slot format shall only be used for MBSFN.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--------------------------|-----------------------|
| Extended Secondary CCPCH Slot Format | | | INTEGER(1823,) | |

9.2.2.93 F-DPCH Slot Format

The F-DPCH Slot Format IE defines the F-DPCH slot format for the TPC bits, as defined in TS 25.211 [7].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| F-DPCH Slot Format | | | INTEGER (09) | |

9.2.2.94 F-DPCH Slot Format Capability

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|---|-----------------------|
| F-DPCH Slot Format Capability | | | ENUMERATED (F- DPCH Slot Format Capable, F-DPCH Slot Format Non- Capable) | |

9.2.2.95 Max UE DTX Cycle

The *Max UE DTX Cycle* IE defines the maximum UE DTX cycle supported by the Node B for Continuous Packet Connectivity DTX-DRX operation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|-------------------------------------|-----------------------|
| Max UE DTX Cycle | М | | ENUMERATED (v5, v10, v20, v40, v64, | Units of subframes |
| | | | v80, v128, v160,) | |

9.2.2.96 MIMO N/M Ratio

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|---|-----------------------|
| MIMO N/M Ratio | M | | ENUMERATED (1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10, 1/1,) | |

9.2.2.97 Common MAC Flows To Delete

The Common MAC Flows To Delete IE is used for the removal of Common MAC flows from a Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|--|--------------------------|-----------------------|
| Common MAC Flows To Delete | | 1 <maxno ofCommon MACFlows</maxno | | |
| | | > | | |
| >Common MAC Flow ID | M | | 9.2.2.79 | |

| Range Bound | Explanation |
|-----------------------|------------------------------------|
| maxnoofCommonMACFlows | Maximum number of Common MAC Flows |

9.2.2.98 Paging MAC Flows To Delete

The Paging MAC Flows To Delete IE is used for the removal of Paging MAC flows from a Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|---------------|-------|--------------------------|-----------------------|
| Paging MAC Flows To Delete | ows To Delete | | | |
| >Paging MAC Flow ID | M | | 9.2.1.113 | |

| Range Bound | Explanation |
|----------------------|------------------------------------|
| maxnoofPagingMACFlow | Maximum number of Paging MAC Flows |

9.2.2.99 MAC-ehs Reset Timer

Void.

9.2.2.100 E-AGCH Table Choice

The E-AGCH Table Choice IE indicates the choice of the E-AGCH table in TS 25.212 [8].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------|----------|-------|-------------------|-------------------------------|
| | | | Reference | |
| E-AGCH Table Choice | M | | ENUMERATED | Table 16B indicates the Table |
| | | | (Table 16B, Table | 16B: Mapping of Absolute |
| | | | 16B-1,) | Grant Value in TS 25.212 [8] |
| | | | | and Table 16B-1 indicates the |
| | | | | Table 16B.1: Alternative |
| | | | | Mapping of Absolute Grant |
| | | | | Value in TS 25.212 [8]. |

9.2.2.101 Common E-DCH Capability

This parameter defines the Common E-DCH capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|---|-----------------------|
| Common E-DCH Capability | | | ENUMERATED (Common E-DCH Capable, Common E-DCH non Capable) | |

9.2.2.102 E-Al Capability

This parameter defines the E-AI capability for a Common E-DCH capable Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-----------------------|
| E-Al Capability | | | ENUMERATED (E- | |
| | | | Al Capable, E-Al | |
| | | | non Capable) | |

9.2.2.103 Common E-DCH System Information

The *Common E-DCH System Information* IE provides information for E-DCH configured for UE in Cell_FACH and Idle state.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|---|---|-------------|----------------------|
| Common E-DCH UL DPCH Information | | 01 | | | _ | - |
| >UL SIR Target | М | | UL SIR 9.2.1.67A | | _ | |
| >DPC Mode | 0 | | 9.2.2.13C | If received, this IE shall be ignored. DPC mode 0 shall be applied for Common E-DCH(see ref. TS 25.214 [10]). | - | |
| Common E-DCH E-DPCH Information | | 01 | | | _ | |
| >Maximum Set of E- DPDCHs | М | | 9.2.2.20C | | _ | |
| >Puncture Limit | М | | 9.2.1.50 | | _ | |
| >E-TFCS Information | М | | 9.2.2.13Dh | | _ | |
| >E-TTI | М | | 9.2.2.13Di | | _ | |
| >E-DPCCH Power Offset | М | | 9.2.2.13Dj | | _ | |
| >E-RGCH 2-Index-Step Threshold | 0 | | 9.2.2.13lg | | _ | |
| >E-RGCH 3-Index-Step Threshold | 0 | | 9.2.2.13lh | | _ | |
| >HARQ Info for E-DCH | М | | 9.2.2.18ba | | _ | |
| Common E-DCH Information | | 01 | | | _ | |
| >E-DCH Reference Power Offset | 0 | | 9.2.2.13Y | | _ | |
| >E-DCH Power Offset for Scheduling Info | 0 | | 9.2.1.85 | | _ | |
| >Maximum E-DCH resource allocation for CCCH | M | | ENUMERATED (8, 12, 16, 24, 32, 40, 80, 120,, 20) | Interms of TTIs, Value 120 should not be used | - | |
| >Maximum period for collision resolution phase | М | | INTEGER(824,.) | Interms of TTIs | _ | |
| >Maximum TB Sizes | 0 | | 9.2.2.106 | | _ | |
| >Common E-DCH implicit release indicator | M | | BOOLEAN | TRUE means implicit release is in use. FALSE means implicit release is not in use. | - | |
| >Common E-DCH Additional Transmission Back Off | 0 | | INTEGER (015,) | | YES | ignore |
| >Common E-DCH Implicit Release Timer | 0 | | ENUMERATE(zero, more than zero) | Indicates the value of <i>E-DCH</i> transmission continuation back off as defined in TS 25.331 [18]. | - | |
| Common E-DCH HS- DPCCH Information | | 01 | | | _ | |
| >ACK-NACK Repetition Factor | М | | 9.2.2.a | | _ | |
| >ACK Power Offset | M | | 9.2.2.b | | _ | |
| >NACK Power Offset | М | | 9.2.2.23a | | _ | |

| | | 1 | 1 | | | |
|--|-----------------|----|---|--|-----|--------|
| >Common E-DCH CQI Information | 0 | | | | _ | |
| >>CQI Feedback Cycle k | М | | 9.2.2.21B | | _ | |
| >>CQI Repetition Factor | C- CQICyclek | | 9.2.2.4Cb | | _ | |
| >>CQI Power Offset | M | | 9.2.2.4Ca | | _ | |
| >>Measurement Power Offset | М | | 9.2.2.21C | | _ | |
| Common E-DCH Preamble Control Information | | 01 | | | _ | |
| >Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >Common E-DCH Preamble Signature | М | | Preamble Signatures 9.2.2.31 | | - | |
| >Scrambling Code Number | М | | 9.2.2.42 | | _ | |
| >Preamble Threshold | М | | 9.2.2.32 | | _ | |
| >E-Al Indicator | 0 | | BOOLEAN | TRUE means E-Als are in use on the AICH. FALSE means E-Als are not in use on the AICH. | _ | |
| >Common E-DCH AICH Information | | 01 | | | _ | |
| >>Common Physical Channel ID | М | | 9.2.1.13 | | _ | |
| >>AICH Transmission Timing | М | | 9.2.2.1 | | _ | |
| >>FDD DL Channelisation Code Number | М | | 9.2.2.14 | | _ | |
| >>AICH Power | М | | 9.2.2.D | | _ | |
| >>STTD Indicator | М | | 9.2.2.48 | | _ | |
| Common E-DCH F-DPCH Information | | 01 | | | _ | |
| >F-DPCH slot format | М | | 9.2.2.93 | | - | |
| >FDD TPC DL Step Size | М | | 9.2.2.16 | | _ | |
| >Initial DL Transmission Power | 0 | | DL Power 9.2.1.21 | Initial power on F- DPCH | YES | ignore |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on F-DPCH | YES | ignore |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | Minimum allowed power on F-DPCH | YES | ignore |
| Common E-DCH E-AGCH Channelisation Code Number | 0 | | FDD DL Channelisation Code Number | | _ | |

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| | | 9.2.2.14 | | |
|--|--|----------|--|--|
| | | | | |

| Common E-DCH | | 0 <max< th=""><th></th><th></th><th>_</th><th></th></max<> | | | _ | |
|---------------------------------------|-----|--|----------------------------|---------------------------|-----|--------|
| Resource Combination | | noofCo | | | _ | |
| Information | | mmonE DCHs> | | | | |
| | | DOI132 | | | | |
| >Soffset | M | | INTEGER | | _ | |
| >F-DPCH DL Code | M | | (09,) FDD DL | | | |
| Number | | | Channelisation | | _ | |
| | | | Code Number | | | |
| >UL DPCH Scrambling | M | | 9.2.2.14 UL Scrambling | | _ | |
| Code | IVI | | Code | | _ | |
| | | | 9.2.2.59 | | | |
| >E-RGCH/E-HICH Channelisation Code | M | | FDD DL Channelisation | | _ | |
| Onarmensation code | | | Code Number | | | |
| | | | 9.2.2.14 | | | |
| >E-RGCH Signature | 0 | | INTEGER | | _ | |
| Sequence | | | (0maxnoofSigS eqE-RGHICH - | | | |
| | | | 1) | | | |
| >E-HICH Signature | M | | INTEGER | | _ | |
| Sequence | | | (0maxnoofSigS eqE-RGHICH - | | | |
| | | | 1) | | | |
| UL Common MAC Flow | | 0 <max< td=""><td></td><td></td><td>_</td><td></td></max<> | | | _ | |
| Specific Information | | noofCo | | | | |
| | | mmonM | | | | |
| | | ACFlow | | | | |
| | | S> | | | | |
| >UL Common MAC Flow | М | | Common MAC | | - | |
| ID | | | Flow ID | | | |
| | | | 0.0.0.70 | | | |
| | | | 9.2.2.79 | | | |
| >Transport Bearer | М | | 9.2.1.62A | | _ | |
| Request Indicator | | | | | | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if | _ | |
| | | | | bearer | | |
| | | | | establishment with ALCAP. | | |
| | | | | ALUAF. | | |
| >Transport Layer | 0 | | 9.2.1.63 | Shall be ignored if | _ | |
| Address | | | | bearer | | |
| | | | | establishment with | | |
| | | | | ALCAP. | | |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if | _ | |
| | | | | bearer | | |
| | | | | establishment with | | |
| | | | | ALCAP. | | |
| >Payload CRC Presence | M | | 9.2.1.49 | | _ | |
| Indicator | | | | | | |
| >Bundling Mode Indicator | 0 | | 9.2.2.1Bb | | _ | |
| >Common E-DCH MAC- | M | | 0 2 2 405 | | | |
| d Flow Specific | IVI | | 9.2.2.105 | | _ | |
| Information | | | | | | |
| E-RNTI List Request | 0 | | NULL | | YES | ignore |
| E-AGCH Power Offset | 0 | | 9.2.2.13ld | | YES | ignore |
| E-RGCH Power Offset | 0 | | 9.2.2.13le | | YES | ignore |

| E-HICH Power Offset | 0 | 9.2.2.13If | YES | ignore |
|---------------------|---|------------|-----|--------|

| Condition | Explanation |
|-----------|--|
| CQICyclek | The IE shall be present if the CQI Feedback Cycle k IE is set to a |
| _ | value greater than 0. |

| Range bound | Explanation |
|-----------------------|---|
| maxnoofCommonMACFlows | Maximum number of Common MAC Flows |
| maxnoofCommonEDCHs | Maximum number of Common E-DCH Resource Combination for a |
| | cell |

9.2.2.104 Common E-DCH System Information Response

The *Common E-DCH System Information Response* IE provides information for E-DCH configured for UE in Cell_FACH and Idle state that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|-----------------------------------|--|-------------|----------------------|
| UL Common MAC Flow Specific Information Response | | 1> <ma xnoofCo mmonM ACFlow s>></ma | | | _ | |
| >UL Common MAC Flow ID | M | | Common MAC Flow ID 9.2.2.79 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | | _ | |
| Serving Grant Value | М | | INTEGER (037,38) | (037) indicates E- DCH serving grant index as defined in 3GPP TS 25.321 [32]; Index 38 is not allowed | - | |
| E-RNTI List | 0 | | 9.2.2.139 | The Node B shall not allocate any E- RNTIs listed in this IE for a UE | YES | ignore |

| Range bound | Explanation |
|-----------------------|------------------------------------|
| maxnoofCommonMACFlows | Maximum number of Common MAC Flows |

9.2.2.105 Common E-DCH MAC-d Flow Specific Information

The *Common E-DCH MAC-d Flow Specific Information* IE is used for the establishment or modity Common E-DCH MAC-d flows.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|---------------------------------------|--|-------------|----------------------|
| Common E-DCH MAC-d Flow Specific Information | | 1 <maxno ofEDCHM ACdFlows ></maxno | | | - | |
| >Common E-DCH MAC-d Flow ID | М | | E-DCH MAC-d Flow ID 9.2.1.74 | The E-DCH MAC-d flow identity reserved for CCCH transmission is defined in TS 25.331 [18]. | - | |
| >Maximum Number Of Retransmissions For E- DCH | М | | 9.2.1.81 | | - | |
| >E-DCH HARQ Power Offset FDD | М | | 9.2.2.13Dk | | - | |
| >E-DCH MAC-d Flow Multiplexing List | 0 | | 9.2.1.69 | | - | |
| >Common E-DCH Logical Channel information | | 1 <maxno oflogicalch annels></maxno | | | - | |
| >>Logical Channel ID | M | | 9.2.1.80 | | - | |
| >>Maximum MAC-c PDU Size Extended | M | | MAC PDU Size Extended 9.2.1.38C | | - | |
| Scheduling Priority Indicator | 0 | | 9.2.1.53H | | YES | ignore |

| Range bound | Explanation |
|------------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d Flows |
| maxnooflogicalchannels | Maximum number of logical channels |

9.2.2.106 Maximum TB Size

The *Maximum TB Size* IE may be used by the sheduler in order to minimize the cell edge interference for cell edge users (and other users).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| Maximum TB Size cell edge | М | | INTEGER | Unit: Bits |
| users | | | (05000,) | |
| Maximum TB Size other users | M | | INTEGER | Unit: Bits |
| | | | (05000,) | |

9.2.2.107 Enhanced UE DRX Capability

Void.

9.2.2.108 Enhanced UE DRX Information

The *Enhanced UE DRX Information* IE provides information for configuring the UE in Cell_FACH state to discontinuously receive HS-DSCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--|---|
| T321 | M | | ENUMERATED (100, 200, 400, 800,) | Determines the time the UE waits until initiating DRX operation, in ms. |
| HS-DSCH DRX cycle _{FACH} | M | | ENUMERATED (4, 8, 16, 32,) | Determines the length of the DRX Cycle during DRX operation, in frames |
| HS-DSCH Rx burst _{FACH} | M | | ENUMERATED (1, 2, 4, 8, 16,) | Determines the period within the DRX Cycle that the UE continuously receives HS- DSCH, in frames |
| DRX Interruption by HS- DSCH data | М | | ENUMERATED (DrxInterruptionConfigured, DrxInterruptionNotConfigured) | |

9.2.2.109 E-DPCCH Power Boosting Capability

This parameter defines the E-DPCCH Power Boosting Capability for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| E-DPCCH Power Boosting | | | ENUMERATED (E- | |
| Capability | | | DPCCH Power | |
| | | | Boosting Capable, | |
| | | | E-DPCCH Power | |
| | | | Boosting Non- | |
| | | | Capable) | |

9.2.2.110 SixtyfourQAM DL and MIMO Combined Capability

Void

9.2.2.111 HS-DSCH Preconfiguration Info

The HS-DSCH Preconfiguration Info IE provides information of the target cell preconfiguration in the Node B as defined in TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|-----------------------|---|-------------|----------------------|
| Sets of HS-SCCH Codes | | 1 <max noofHSD SCH></max | | Index 1 refers to the serving HS-DSCH cell Index 2 <maxnoofhsdsch> refer to secondary serving HS-DSCH cells in the order as listed in 9.2.2.112 HS-DSCH Preconfiguration Setup. Max index is 2 in this 3GPP release.</maxnoofhsdsch> | - | |
| > HS-SCCH Preconfigured Codes | | 1 <maxn oofHSSC CHcodes</maxn | | | _ | |
| >> Code Number | М | | INTEGER (0127) | | _ | |
| > SixtyfourQAM DL Usage Indicator | 0 | | 9.2.2.74B | | _ | |
| > HS-DSCH TB Size Table Indicator | 0 | | 9.2.2.18Ee | | _ | |
| > MIMO N/M Ratio | 0 | | 9.2.2.96 | Applicable for multicarrier mode of operation. | YES | ignore |
| HARQ Memory Partitioning | М | | 9.2.1.102 | | _ | |
| E-DCH FDD DL Control Channel Information | 0 | | 9.2.2.13Dc | For the primary UL frequency in Dual-cell E-DCH mode of operation. | - | |
| HARQ Preamble Mode Activation Indicator | 0 | | 9.2.2.18b | | _ | |
| MIMO N/M Ratio | 0 | | 9.2.2.96 | Only applicable for MIMO in singe carrier mode of operation. Shall be ignored in multicarrier mode of operation. | - | |
| Continuous Packet Connectivity HS-SCCH less Information Response | 0 | | 9.2.2.69 | | - | |
| Additional E-DCH Preconfiguration Information | | 0 <maxn oofEDCH -1></maxn | | For E-DCH on multiple frequencies in this Node B. E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. Index 1 correspond to the secondary serving HS-DSCH cells with index 2 in the IE Sets of HS-SCCH Codes. The list is in the order as listed in 9.2.2.112 HS-DSCH Preconfiguration Setup. | EACH | ignore |
| >E-DCH FDD DL Control Channel Information | M | | 9.2.2.13Dc | For the secondary UL frequency In Dual-cell E-DCH mode of operation. | | |
| Support of dynamic DTXDRX related HS- SCCH order | 0 | | 9.2.2.146 | | YES | ignore |

| Range bound | Explanation |
|--------------------|---|
| maxnoofHSSCCHcodes | Maximum number of HS-SCCH codes |
| maxnoofHSDSCH | Maximum number of Primary Serving plus Secondary Serving HS-DSCH cells for one UE |

9.2.2.112 HS-DSCH Preconfiguration Setup

The *HS-DSCH Preconfiguration Setup* IE indicates that the Node B shall preconfigure set(s) of HS-SCCH codes and may contain a list of secondary serving HS-DSCH cells to be preconfigured for Enhanced Service Cell Change. The Cell Change procedure for Dual Cell operation is described in TS 25.308 [49]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|--|--|-------------|----------------------|
| MAC-hs/ehs reset scheme | M | | ENUMERATED (Always, Inter NodeB Change) | MAC-hs/ehs reset handling at enhanced HS serving cell change: "Always" means always reset "Inter Node B Change" means Only reset at Inter NodeB cell change | - | |
| HS-DSCH Physical Layer Category MAC-hs Reordering | M | | 9.2.1.31la 9.2.1.38Ab | | _ | |
| Buffer Size for RLC- UM | IVI | | 9.2.1.30Ab | | _ | |
| Secondary Cells | | 0 <ma xnoofH SDSCH -1></ma | | Preconfigured secondary serving HS-DSCH cell. maxnoofHSDSCH-1 is max 1 in this 3GPP release. | - | |
| > Secondary C-ID | М | | 9.2.1.9 | C-ID of the preconfigured secondary serving HS-DSCH cell | _ | |
| > Num Secondary HS-SCCH Codes | 0 | | INTEGER (1 maxnoofHSSC CHcodes) | For the secondary serving HS-DSCH cell | - | |
| >Sixtyfour QAM Usage Allowed Indicator | 0 | | 9.2.2.74A | For the secondary serving HS-DSCH cell | _ | |
| >MIMO Activation Indicator | 0 | | 9.2.1.119 | For the secondary serving HS-DSCH cell | YES | ignore |
| >E-DCH Indicator | 0 | | NULL | The secondary serving HS-DSCH cell shall be preconfigured with E-DCH. | YES | ignore |
| Num Primary HS- SCCH Codes | 0 | | INTEGER (1 maxnoofHSSC CHcodes) | For the primary serving HS-DSCH cell | _ | |
| HARQ Preamble Mode | 0 | | 9.2.2.18a | | - | |
| MIMO Activation Indicator | 0 | | 9.2.1.119 | In multicarrier mode of operation the IE is for the serving HS- DSCH cell | _ | |
| HS-DSCH MAC-d PDU Size Format | 0 | | 9.2.1.31ID | If not present, "Indexed MAC-d PDU Size" shall be assumed. | _ | |
| Sixtyfour QAM Usage Allowed Indicator | 0 | | 9.2.2.74A | For the serving HS- DSCH cell | _ | |
| UE with enhanced HS-SCCH support indicator | 0 | | NULL 9.2.2.68 | UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS- SCCH orders | _ | |

| Connectivity HS- SCCH less Information | | | | |
|--|---|-----------|-----|--------|
| UE Support Indicator Extension | 0 | 9.2.2.117 | YES | ignore |

| Range bound | Explanation |
|--------------------|--|
| maxnoofHSSCCHcodes | Maximum number of HS-SCCH codes |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |

9.2.2.113 Multi Cell Capability Info

This parameter defines the Multi Cell capability information for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|--|--|---|
| Multi Cell Capability | M | | ENUMERATED (Multi Cell Capable, Multi Cell non Capable) | |
| Possible Secondary Serving Cell List | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell. |
| >Possible Secondary Serving Cell | М | | Local Cell ID 9.2.1.38 | Cells possible to serve in multicell adjacent carrier operation (TS 25.133 [22]) (same sector) |

| Range bound | Explanation | | |
|-----------------|---|--|--|
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE. | | |

9.2.2.114 Minimum Reduced E-DPDCH Gain Factor

The minimum gain factor $(\beta_{ed,k,reduced,min})$ defined in TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Minimum Reduced E-DPDCH | | | ENUMERATED | |
| Gain Factor | | | (8/15, 11/15, 15/15, | |
| | | | 21/15, 30/15, 42/15, | |
| | | | 60/15, 84/15,) | |

9.2.2.115 IMB Parameters

The IMB Parameters IE contains specific parameters needed for 3.84Mcps MBSFN IMB operation.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------------------------|----------|-------|--|---|
| | | | Reference | |
| Sub-frame number | M | | INTEGER (04,) | |
| Last DL Channelisation Code Number | 0 | | DL Channelisation Code Number 9.2.2.14 | In case of IMB using multiple channelization codes this IE indicates the last one as defined in TS 25.331 [18]. |

9.2.2.116 Common E-DCH HS-DPCCH Capability

This parameter defines the HS-DPCCH capability for a Common E-DCH capable Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|---|-----------------------|
| Common E-DCH HS-DPCCH Capability | | | ENUMERATED (HS- DPCCH non- Capable, ACK- NACK Capable, ACK-NACK and CQI Capable) | |

9.2.2.117 UE Support Indicator Extension

The UE Support Indicator Extension IE is used to indicate the support level in the UE for optional HSDPA functions to the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-------|-----------------------|---|
| UE support indicator extension | | | BIT STRING (32) | Each bit indicates whether the UE supports a particular HSDPA function or not. The value 1 of a bit indicates that the corresponding functionality is supported in the UE and value 0 indicates that the corresponding functionality is not supported in the UE. Each bit is defined as follows: the first bit: Different HS-SCCH In Consecutive TTIs Support Indicator, the second bit: HS-SCCH orders in HS-SCCH-less Operation Support Indicator, the third bit: RRC Rel-9 (onwards) handling of DL secondary HS-DSCH (de)activation state Support Indicator, the fourth bit: UE DTXDRX related HS-SCCH orders uniform behavior indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. |

9.2.2.118 MIMO Power Offset For S-CPICH Capability

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|-----------------------|-----------------------|
| MIMO Power Offset For S- | | | ENUMERATED (S- | |
| CPICH Capability | | | CPICH Power Offset | |
| | | | Capable, S-CPICH | |
| | | | Power Offset Not | |
| | | | Capable) | |

9.2.2.119 Power Offset For Secondary CPICH for MIMO

The *Power Offset For Secondary CPICH for MIMO* IE indicates the relative transmit power of the S-CPICH compared to the primary CPICH transmit power, when S-CPICH is used as a phase reference for a second transmit antenna in MIMO mode TS 25.214 [10].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Power Offset For Secondary | | | INTEGER(-6 0) | Offset in dB |
| CPICH for MIMO | | | | |

9.2.2.120 MIMO Pilot Configuration Extension

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|--------------------------------------|
| CHOICE Pilot Configuration | M | | | |
| >Primary and Secondary CPICH | | | | |
| >> Power Offset For Secondary CPICH for MIMO | M | | 9.2.2.119 | |
| >Normal and Diversity Primary CPICH | | | NULL | This IE is not used in this release. |

9.2.2.121 TX Diversity on DL Control Channels by MIMO UE Capability

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--|-----------------------|
| TX Diversity on DL Control Channels by MIMO UE Capability | | | ENUMERATED (DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable, DL Control Channel Tx Diversity for MIMO UE with non- diverse P-CPICH Not Capable) | |

9.2.2.122 Single Stream MIMO Capability

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|---|-----------------------|
| Single Stream MIMO Capability | | | ENUMERATED (Single Stream MIMO Capable, Single Stream MIMO Non-Capable) | |

9.2.2.123 Single Stream MIMO Activation Indicator

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|-----------------------|
| Single Stream MIMO Activation Indicator | М | | NULL | |

9.2.2.124 Single Stream MIMO Mode Indicator

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Single Stream MIMO Mode | | | ENUMERATED | |
| Indicator | | | (Activate, | |
| | | | Deactivate) | |

9.2.2.125 Dual Band Capability Info

This parameter defines the Dual Band capability information for a Local Cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|--|--|---|
| Dual Band Capability | M | | ENUMERATED (Dual Band Capable, Dual Band non Capable) | |
| Possible Secondary Serving Cell List | | 0 <maxno ofHSDSC H-1></maxno | | For secondary serving HS- DSCH cell.] |
| >Possible Secondary Serving Cell | M | | Local Cell ID 9.2.1.38 | Cells possible to serve in multicell Dual Band operation (TS 25.133 [22]) (same sector) |

| Range bound | Explanation |
|-----------------|---|
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE. |

9.2.2.126 Void

9.2.2.127 HS-DSCH MAC-ehs Format

Void.

9.2.2.128 Activation Information

The *Activation Information* IE defines the local activation state of the secondary uplink frequency of the UE in Dual Cell E-DCH operation.

| IE/Group Name | Presenc | Range | IE Type and | Semantics Description |
|------------------------|---------|---|----------------------|-----------------------------|
| | е | | Reference | |
| Activation Information | | 1 <maxno< th=""><th>For secondary E-DCH.</th><th></th></maxno<> | For secondary E-DCH. | |
| | | ofEDCH-1 | Max 1 in this 3GPP | |
| | | > | release. | |
| >Uu Activation State | M | | ENUMERATED | The activation state of the |
| | | | (Activated, | secondary UL frequency |
| | | | De-activated,) | |

| Range Bound | Explanation |
|---------------|--|
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

9.2.2.129 Cell Capability Container

The Cell Capability Container IE indicates the cell capability by setting the corresponding bit in the BIT String.

The cell capability of multi-cell related functions may depend on that the cell also is multi-cell capable (adjacent carrier). These capability indicators shall be ignored if the cell is not Multi Cell Capable. These support indicators are indicated in the table below with /Multi-cell/. Cell Capability for the capabilities marked /Multi-cell/ indicates capability regardless of the supported multi-cell type in a multicell configuration for the local cell: supported multi-cell type is - both serving HS-DSCH and secondary serving HS-DSCH, - secondary serving HS-DSCH or - serving HS-DSCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|-----------------------|--|
| Cell Capability Container | | | BIT STRING (128) | Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Cell Specific Tx Diversity Handling For Multi Cell Operation Capability /Multi-cell/. The second bit: Multi Cell and MIMO Capability/Multi-cell/. The third bit: Multi Cell and Single Stream MIMO Capability/Multi-cell/. The fourth bit: Multi Cell E-DCH Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fifth bit: Separate lub Transport Bearer Capability/Multi-cell/. The fifth bit: Separate lub Transport Bearer Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fourth bit: Multi Cell E-DCH Capability = "0" The fifth bit: Separate lub Transport Bearer Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fourth bit: Multi Cell E-DCH Capability = "0" The sixth bit: E-DCH UL Flow Multiplexing Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fourth bit: Multi Cell E-DCH Capability = "0" Note that undefined bits are considered as a spare bit shall be set to 0 by the transmitter and shall be ignored by the receiver. Note that Reserved bits are not considered as a spare bit. They shall however be |

9.2.2.130 Multicell E-DCH Transport Bearer Mode

This parameter indicates the Multicell E-DCH Transport Bearer Mode. For *Multicell E-DCH Transport Bearer Mode* = "Separate Iub Transport Bearer Mode" the Mac-d flows from each carrier uses different Iub transport bearers, for *Multicell E-DCH Transport Bearer Mode* = "UL Flow Multiplexing Mode" the Mac-d flows received on the different carriers in the Node B is multiplexed on one Iub transport bearer (per Mac-d flow). The CRNC should apply the stored cell capabilities for the cell on primary UL frequency for the capabilities related to Multicell E-DCH Transport Bearer Mode.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------------|----------|-------|--------------------|-----------------------|
| | | | Reference | |
| Multicell E-DCH Transport | | | ENUMERATED | |
| Bearer Mode | | | (Separate lub | |
| | | | Transport Bearer | |
| | | | Mode, UL Flow | |
| | | | Multiplexing Mode) | |

9.2.2.131 Additional E-DCH FDD Setup Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------|----------|-------|-----------------------|--------------------------|-------------|----------------------|
| UL DPCH Information | | 1 | | | _ | |
| >UL Scrambling Code | M | | 9.2.2.5 | | _ | |
| >UL SIR Target | M | | UL SIR 9.2.1.67A | | _ | |
| Additional E-DCH RL | M | | 9.2.2.132 | | _ | |
| Specific Information To | | | | | | |
| Setup | | | | | | |
| Additional E-DCH FDD | 0 | | 9.2.2.137 | | _ | |
| Information | | | | | | |
| F-DPCH Information | | 1 | | | _ | |
| >FDD TPC DL Step Size | M | | 9.2.2.16 | | _ | |
| >Limited Power Increase | M | | 9.2.2.18A | | _ | |
| >Inner Loop DL PC Status | M | | 9.2.2.18B | | _ | |
| Multicell E-DCH Information | 0 | | 9.2.2.140 | | YES | ignore |

9.2.2.132 Additional E-DCH RL Specific Information To Setup

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|--|--------------------------|-------------|----------------------|
| E-DCH Additional RL Specific Information | | 1 <ma xnoofE DCHR Ls></ma | 1101010100 | 2000 | - | Omnounty |
| >E-DCH Additional RL ID | M | | RL ID 9.2.1.53 | | _ | |
| >C-ID | 0 | | 9.2.1.9 | | _ | |
| >First RLS Indicator | M | | 9.2.2.16A | | _ | |
| >Propagation Delay | 0 | | 9.2.2.35 | | _ | |
| >DL Code Information | M | | FDD DL Code Information 9.2.2.14A | | _ | |
| >Initial DL Transmission Power | М | | DL Power 9.2.1.21 | | - | |
| >Maximum DL Power | M | | DL Power 9.2.1.21 | | _ | |
| >Minimum DL Power | M | | DL Power 9.2.1.21 | | _ | |
| >F-DPCH Slot Format | 0 | | 9.2.2.93 | | _ | |
| >E-RNTI | 0 | | 9.2.1.75 | | _ | |
| >Multicell E-DCH RL Specific Information | 0 | | 9.2.2.142 | | YES | ignore |

| Range bound | Explanation |
|----------------|--|
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |

9.2.2.133 Additional E-DCH RL Specific Information To Add

| IE/Group Name | Presence | Range | IE Type and | Semantics | Criticality | Assigned |
|---|----------|---|--|-------------|-------------|-------------|
| E-DCH Additional RL Specific Information To Add | | 1 <ma xnoofE DCHR Ls></ma | Reference | Description | _ | Criticality |
| >E-DCH Additional RL ID | М | | RL ID 9.2.1.53 | | _ | |
| >C-ID | M | | 9.2.1.9 | | _ | |
| >DL Code Information | М | | FDD DL Code Information 9.2.2.14A | | _ | |
| >Initial DL Transmission Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >F-DPCH Slot Format | 0 | | 9.2.2.93 | | | · · |
| >Multicell E-DCH RL Specific Information | 0 | | 9.2.2.142 | | YES | ignore |

| Range bound | Explanation |
|----------------|--|
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |

9.2.2.134 Additional E-DCH RL Specific Information To Modify

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|---|--|--------------------------|-------------|----------------------|
| E-DCH Addiional RL Specific Information To Modify | | 1 <ma xnoofE DCHR Ls></ma | | | _ | |
| >E-DCH Additional RL ID | М | | RL ID 9.2.1.53 | | _ | |
| >DL Code Information | 0 | | FDD DL Code Information 9.2.2.14A | | _ | |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | | _ | |
| >F-DPCH Slot Format | 0 | - | 9.2.2.93 | | _ | |
| >Multicell E-DCH RL Specific Information | 0 | | 9.2.2.142 | | YES | ignore |

| Range bound | Explanation |
|----------------|--|
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |

9.2.2.135 Additional E-DCH FDD Information Response

The Additional E-DCH FDD Information Response IE provides information for new E-DCH radio links on the secondary UL frequency.

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| IE/Group Name | IE/Group Name Presence Range | | IE Type and Reference | Semantics Description |
|------------------------------------|------------------------------|---|---------------------------------|-----------------------|
| E-DCH Additional RL | | 0 <maxno< td=""><td></td><td></td></maxno<> | | |
| Specific Information | | ofEDCHRL | | |
| Response | | S> | | |
| >E-DCH Additional RL ID | M | | RL ID 9.2.1.53 | |
| >Received Total Wide Band Power | М | | 9.2.2.39A | |
| >DL Power Balancing | 0 | | 9.2.2.12C | |
| Activation Indicator | | | | |
| >RL Set ID | M | | 9.2.2.39 | |
| >E-DCH RL Set ID | М | | RL Set ID | |
| | | | 9.2.2.39 | |
| >E-DCH FDD DL Control | M | | 9.2.2.13Dc | |
| Channel Information | | | | |
| Additiona E-DCH MAC-d | | 0 <maxno< td=""><td></td><td></td></maxno<> | | |
| Flow Specific Information | | ofEDCHM | | |
| Response | | ACdFlows | | |
| F DOLLMAC d Flow ID | M | > | 9.2.1.74 | |
| >E-DCH MAC-d Flow ID | 0 | | 9.2.1.4 | |
| >Binding ID | 0 | | 9.2.1.63 | |
| >Transport Layer Address | | | | |
| HARQ Process Allocation For | 0 | | HARQ Process Allocation for 2ms | |
| 2ms Scheduled Transmission | | | TTI | |
| Grant | | | 9.2.2.13Dn | |

| Range bound | Explanation |
|----------------------|--|
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |
| maxnoofEDCHMACdFlows | Maximum number of MAC-d flows. |

9.2.2.136 Additional E-DCH Configuration Change Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|--|---|-------------|----------------------|
| UL DPCH Information | | 01 | | | _ | |
| >UL Scrambling Code | 0 | | 9.2.2.5 | | _ | |
| >UL SIR Target | 0 | | UL SIR 9.2.1.67A | | _ | |
| Additional E-DCH RL Specific Information To Add | 0 | | 9.2.2.133 | Used when the E-DCH RL to add does not exist in the current Node B Communication Context on the secondary UL frequency. | _ | |
| Additional E-DCH RL Specific Information To Modify | 0 | | 9.2.2.134 | Used when an existing E-DCH RL on the secondary UL frequency is modified. | - | |
| Additional E-DCH FDD Information To Modify | 0 | | Additional E- DCH FDD Information 9.2.2.137 | Used to modify the current additional E-DCH configuration with or without a new RL added in this procedure | - | |
| F-DPCH Information | | 01 | | | _ | |
| >FDD TPC DL Step Size | М | | 9.2.2.16 | | _ | |
| >Limited Power Increase | М | | 9.2.2.18A | | _ | |
| >Inner Loop DL PC Status | М | | 9.2.2.18B | | _ | |
| Multicell E-DCH Information | 0 | | 9.2.2.140 | | YES | ignore |

9.2.2.137 Additional E-DCH FDD Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|--|--|---|
| Additional E-DCH MAC-d Flows Specific Information | | 0 <max noofED CHMAC dFlows></max | | |
| >E-DCH MAC-d Flow ID | M | | 9.2.1.74 | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP |
| HARQ Process Allocation For 2ms Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | |
| E-DCH Maximum Bitrate | 0 | | 9.2.2.13T | |
| E-DCH Processing Overload Level | 0 | | 9.2.1.79 | |
| E-DCH Minimum Set E-TFCI | 0 | | INTEGER (0127) | For the concept of "E-DCH Minimum Set of TFCs" see 3GPP TS 25.321 [32] and TS 25.331 [18] |

| Range bound | Explanation | | |
|----------------------|--------------------------------|--|--|
| maxnoofEDCHMACdFlows | Maximum number of MAC-d flows. | | |

9.2.2.138 Additional E-DCH FDD Update Information

| IE/Group Name | Presenc | Range | IE Type and | Semantics Description |
|-----------------------------|---------|---|----------------|-----------------------|
| | е | | Reference | |
| HARQ Process Allocation For | 0 | | HARQ Process | |
| 2ms Scheduled Transmission | | | Allocation for | |
| Grant | | | 2ms TTI | |
| | | | 9.2.2.13Dn | |
| Additional E-DCH DL Control | | 0 <max< td=""><td></td><td></td></max<> | | |
| Channel Change Information | | noofED | | |
| _ | | CHRLs | | |
| | | > | | |
| >E-DCH Additional RL ID | M | | RL ID | |
| | | | 9.2.1.53 | |

| Range bound | Explanation | | |
|----------------|--|--|--|
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE | | |

9.2.2.139 E-RNTI List

The *E-RNTI List* IE provides the list of E-RNTIs which can be allocated by CRNC.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|--------------------------------------|--------------------------|-----------------------|
| E-RNTI List | | 1 <maxnoo fERNTIs></maxnoo | | |
| >E-RNTI | M | | 9.2.1.75 | |

| Range bound | Explanation |
|---------------|--|
| MaxnoofERNTIs | Maximum number of ERNTIs that can be allocated by the CRNC |

9.2.2.140 Multicell E-DCH Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------------------|---|
| DL Power Balancing Information | 0 | | 9.2.2.12B | |
| Minimum Reduced E-DPDCH Gain Factor | 0 | | 9.2.2.114 | |
| Secondary UL Frequency Activation State | 0 | | ENUMERATED (Activated, Deactivated,) | Activation state signalled to Node B at setup of RL on secondary UL frequency |

9.2.2.141 Additional Modified E-DCH FDD Information Response

The *Additional Modified E-DCH FDD Information Response* IE provides information for RLs on the secondary UL frequency that has been modified and existied in the Node B Communication Context configuration before the reconfiguration procedure.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|--|---|-----------------------|
| E-DCH Additional Modified | | 0 <maxno< td=""><td></td><td></td></maxno<> | | |
| RL Specific Information | | ofEDCHRL | | |
| Response | | S> | | |
| >E-DCH Additional RL ID | М | | RL ID 9.2.1.53 | |
| >DL Power Balancing Updated Indicator | 0 | | 9.2.2.12C | |
| >E-DCH FDD DL Control Channel Information | 0 | | 9.2.2.13Dc | |
| Additional E-DCH MAC-d Flow Specific Information Response | | 0 <maxno ofEDCHM ACdFlows ></maxno | | |
| >E-DCH MAC-d Flow ID | M | | 9.2.1.74 | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Layer Address | 0 | | 9.2.1.63 | |
| HARQ Process Allocation For 2ms Scheduled Transmission Grant | 0 | | HARQ Process Allocation for 2ms TTI 9.2.2.13Dn | |

| Range bound | Explanation |
|----------------------|--|
| maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE |
| maxnoofEDCHMACdFlows | Maximum number of MAC-d flows. |

9.2.2.142 Multicell E-DCH RL Specific Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--|-----------------------|
| Extended Propagation Delay | 0 | | 9.2.2.35A | |
| Primary CPICH Usage For | 0 | | 9.2.2.33A | |
| Channel Estimation | | | | |
| Secondary CPICH Information | 0 | | Common Physical Channel ID 9.2.1.13 | |
| Secondary CPICH Information Change | 0 | | 9.2.2.43A | |
| E-AGCH Power Offset | 0 | | 9.2.2.13ld | |
| E-RGCH Power Offset | 0 | | 9.2.2.13le | |
| E-HICH Power Offset | 0 | | 9.2.2.13lf | |
| DL Reference Power | 0 | | DL power 9.2.1.21 Power on DPCH or on F-DPCH | |
| E-DCH DL Control Channel Grant | 0 | | NULL | |

9.2.2.143 Precoding Weight Set Restriction

This parameter defines the preferred precoding weight set restriction configuration as defined in TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|-----------------|-----------------------|
| | | | Reference | |
| Precoding Weight Set | | | ENUMERATED | |
| Restriction | | | (Preferred, Not | |
| | | | Preferred) | |

9.2.2.144 Non-Serving RL Preconfiguration Setup

The *Non-Serving RL Preconfiguration Setup* IE indicates that the Node B may preconfigure E-DCH DL Code Information configured for new non-serving RL for Enhanced Service Cell Change and contains the information for the location of new serving RL after the Enhanced Serving Cell Change.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|-----------------------|--------------------------|-------------|----------------------|
| CHOICE new Serving RL | M | | | | _ | |
| >New Serving RL in the Node B | | | NULL | | - | |
| >New Serving RL Not in the Node B | | | NULL | | 1 | |
| >New Serving RL in the Node B or New Serving RL Not in the Node B | | | NULL | | ı | |
| Additional E-DCH Non- Serving RL Preconfiguration Setup | 0 | | NULL | | YES | ignore |

9.2.2.145 Non-Serving RL Preconfiguration Info

The *Non-Serving RL Preconfiguration Info* IE provides information for the new non-serving RL after Enhanced Serving Cell Change.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|--|--|-------------|-------------------------|
| New non-serving RL E-DCH FDD DL Control Channel Information A | 0 | | 9.2.2.13Dc E-DCH FDD DL Control Channel Information | E-DCH FDD DL Control Channel Information for non-serving RL in Serving E-DCH RLS | - | |
| New non-serving RL E-DCH FDD DL Control Channel Information B | 0 | | 9.2.2.13Dc E-DCH FDD DL Control Channel Information | E-DCH FDD DL Control Channel Information for non-serving RL in non serving E-DCH RLS in case serving RL is in the Node | _ | |
| New non-serving RL E-DCH FDD DL Control Channel Information C | 0 | | 9.2.2.13Dc E-DCH FDD DL Control Channel Information | E-DCH FDD DL Control Channel Information for non-serving RL in case serving RL is not in the Node B | - | |
| Additional E-DCH New non- serving RL E-DCH FDD DL Control Channel Information | | 0 <maxno ofEDCH- 1></maxno | | E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. | EACH | ignore |
| >New non-serving RL E- DCH FDD DL Control Channel Information A | 0 | | 9.2.2.13Dc E-DCH FDD DL Control Channel Information | E-DCH FDD DL Control Channel Information for Additional non- serving RL in Serving E- DCH RLS | - | |
| >New non-serving RL E- DCH FDD DL Control Channel Information B | 0 | | 9.2.2.13Dc E-DCH FDD DL Control Channel Information | E-DCH FDD DL Control Channel Information for Additional non- serving RL in non serving E- DCH RLS in case Additional serving RL is in the Node B | - | |
| >New non-serving RL E- DCH FDD DL Control Channel Information C | O | | 9.2.2.13Dc E-DCH FDD DL Control Channel Information | E-DCH FDD DL Control Channel Information for Additional non- serving RL in case Additional serving RL is not in the Node B | _ | |

9.2.2.146 Support of Dynamic DTXDRX Related HS-SCCH Order

The Support of dynamic DTXDRX related HS-SCCH order IE is to indicate if DRNS supports the DRX/DTX related HS-SCCH order for CPC non-uniform UE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Support of dynamic DTXDRX | | | ENUMERATED | |
| related HS-SCCH order | | | (Supported, Not | |
| | | | Supported) | |

9.2.3 TDD specific Parameters

9.2.3.1 Block STTD Indicator

Void.

9.2.3.2 Burst Type

Void.

9.2.3.3 CCTrCH ID

The CCTrCH ID for dedicated and shared channels identifies unambiguously an uplink or downlink CCTrCH inside a Radio Link. For S-CCPCH, it identifies unambiguously a downlink CCTrCH within a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| CCTrCH ID | | | INTEGER (015) | |

9.2.3.4 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the [3.84 Mcps TDD and 7.68Mcps TDD - Code Groups, Scrambling Codes, Midambles and Toffset] [1.28 Mcps TDD - SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes] (see ref. TS 25.223 [20]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Cell Parameter ID | | | INTEGER | |
| | | | (0127,) | |

9.2.3.4A Constant Value

The Constant Value is the power margin used by a UE to set the proper uplink power for a DCH, USCH, or a RACH.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------|----------|-------|---------------------|--|
| | | | Reference | |
| Constant Value | | | INTEGER (-1010,) | Unit: dB Range: -10 +10 dB Step: 1 dB. |

9.2.3.4B DL Timeslot ISCP

The DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. TS 25.225 [5].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|---|
| DL Timeslot ISCP | | | INTEGER (091) | According to mapping in ref. TS 25.225 [5]. |

9.2.3.4C DCH TDD Information

The DCH TDD Information IE provides information for DCHs to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|---------------|-----------------------------------|-----------------------------|--|-------------|----------------------|
| DCH TDD Information | | 1 <maxno ofDCHs></maxno | | | _ | |
| >Payload CRC Presence Indicator | М | | 9.2.1.49 | | _ | |
| >UL FP Mode | М | | 9.2.1.66 | | _ | |
| >ToAWS | М | | 9.2.1.61 | | _ | |
| >ToAWE | М | | 9.2.1.60 | | _ | |
| >DCH Specific Info | | 1 <maxno ofDCHs></maxno | | | _ | |
| >>DCH ID | М | | 9.2.1.20 | | _ | |
| >>CCTrCH ID | M | | 9.2.3.3 | UL CCTrCH in which the DCH is mapped | _ | |
| >>CCTrCH ID | M | | 9.2.3.3 | DL CCTrCH in which the DCH is mapped | _ | |
| >>Transport Format Set | М | | 9.2.1.59 | For UL | _ | |
| >>Transport Format Set | М | | 9.2.1.59 | For DL | _ | |
| >>Allocation/Retention Priority | M | | 9.2.1.1A | | _ | |
| >>Frame Handling Priority | М | | 9.2.1.30 | | _ | |
| >>QE-Selector | C- CoorDCH | | 9.2.1.50A | | _ | |
| >>Unidirectional DCH Indicator | 0 | | 9.2.1.68 | | YES | reject |
| >TNL QoS | 0 | | 9.2.1.58A | | YES | ignore |

| Condition | Explanation |
|-----------|---|
| CoorDCH | The IE shall be present if this DCH is part of a set of coordinated |
| | DCHs (number of instances of the DCH Specific Info IE is greater |
| | than 1). |

| Range Bound | Explanation |
|-------------|-----------------------------------|
| maxnoofDCHs | Maximum number of DCHs for one UE |

9.2.3.4D DCHs TDD To Modify

The DCHs TDD To Modify IE provides information for DCHs to be modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------------|----------|-----------------------------------|-----------------------------|--|-------------|-------------------------|
| DCHs TDD To Modify | | 1 <maxno ofDCHs></maxno | | | _ | |
| >UL FP Mode | 0 | | 9.2.1.66 | | _ | |
| >ToAWS | 0 | | 9.2.1.61 | | _ | |
| >ToAWE | 0 | | 9.2.1.60 | | _ | |
| >Transport Bearer Request Indicator | M | | 9.2.1.62A | | _ | |
| >DCH Specific Info | | 1 <maxno ofDCHs></maxno | | | _ | |
| >>DCH ID | М | | 9.2.1.20 | | _ | |
| >>CCTrCH ID | 0 | | 9.2.3.3 | UL CCTrCH in which the DCH is mapped. | _ | |
| >>CCTrCH ID | 0 | | 9.2.3.3 | DL CCTrCH in which the DCH is mapped | _ | |
| >>Transport Format Set | 0 | | 9.2.1.59 | For the UL. | _ | |
| >>Transport Format Set | 0 | | 9.2.1.59 | For the DL. | _ | |
| >>Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >>Frame Handling Priority | 0 | | 9.2.1.30 | | | |
| >TNL QoS | 0 | | 9.2.1.58A | | YES | ignore |

| Range Bound | Explanation |
|-------------|-----------------------------------|
| maxnoofDCHs | Maximum number of DCHs for one UE |

9.2.3.4E DL Timeslot Information

The DL Timeslot Information IE provides information for DL Time slot to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-----------------------------------|---|-----------------------|
| DL Timeslot Information | | 1 <maxno ofDLts></maxno | | |
| >Time Slot | M | | 9.2.3.23 | |
| >Midamble Shift And Burst Type | М | | 9.2.3.7 | |
| >TFCI Presence | М | | 9.2.1.57 | |
| >DL Code Information | М | | TDD DL Code Information 9.2.3.19B | |

| Range Bound | Explanation |
|-------------|--|
| maxnoofDLts | Maximum number of Downlink time slots per Radio Link |

9.2.3.4F DL Time Slot ISCP Info

The DL Time Slot ISCP Info IE provides information for DL Interference level for each time slot within the Radio Link.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-----------------------------------|--------------------------|-----------------------|
| DL Time Slot ISCP Info | | 1 <maxno ofDLts></maxno | | |
| >Time Slot | M | | 9.2.3.23 | |
| >DL Timeslot ISCP | M | | 9.2.3.4B | |

| Range Bound | Explanation |
|-------------|---|
| maxnoofDLts | Maximum number of Downlink time slots per Radio Link for 3.84Mcps |
| | TDD. |

9.2.3.4G Cell Sync Burst Code

The Cell Sync Burst Code IE indicates which Code is used for a given Cell Sync Burst.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| Cell Sync Burst Code | | | INTEGER (07,) | |

9.2.3.4H Cell Sync Burst Code Shift

The Cell Sync Burst Code Shift IE indicates the number of code shifts used for a given Cell Sync Burst.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Cell Sync Burst Code Shift | | | INTEGER (07) | |

9.2.3.4I CSB Measurement ID

The Cell Sync Burst Measurement ID IE uniquely identifies any cell synchronisation burst measurement per Node B Control Port.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| CSB Measurement ID | | | INTEGER (065535) | |

9.2.3.4J Cell Sync Burst Repetition Period

The *Cell Sync Burst Repetition Period* IE represents the number of consecutive Radio Frames after which the cell synchronisation burst transmission/measurement is repeated. This means that if the Time Slot K is assigned to the cell synchronisation burst transmission/measurements in the Radio Frame J, the cell synchronisation burst transmission/measurement is also in all the Radio Frames J+n*Repetition Period.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--------------------------|-----------------------|
| Cell Sync Burst Repetition Period | | | INTEGER (04095) | |

9.2.3.4K Cell Sync Burst SIR

Indicates the Signal to Interference Ratio of the cell synchronisation burst measurement according definition in TS 25.225 [5].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|--|
| Cell Sync Burst SIR | | | INTEGER (031) | According to mapping in TS 25.123 [23] |

9.2.3.4L Cell Sync Burst Timing

The *Cell Sync Burst Timing* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see TS 25.225 [5] for 3.84Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------|----------|-------|--------------------------|--|
| CHOICE Phase | | | | According to mapping in TS 25.123 [23] |
| >Initial Phase | | | | |
| >>Cell Synch Burst Timing Value | М | | INTEGER | |
| >Steady State Phase | | | (01048575,) | |
| >>Cell Synch Burst Timing | M | | INTEGER | |
| Value | | | (0255,) | |

9.2.3.4La Cell Sync Burst Timing LCR

The *Cell Sync Burst Timing LCR* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see TS 25.225 [5] for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------|----------|-------|--------------------------|--|
| CHOICE Phase | | | | According to mapping in TS 25.123 [23] |
| >Initial Phase | | | | |
| >>Cell Synch Burst Timing Value | М | | INTEGER (0 524287,) | |
| >Steady State Phase | | | | |
| >>Cell Synch Burst Timing Value | М | | INTEGER (0127,) | |

9.2.3.4M Cell Sync Burst Timing Threshold

The *Cell Sync Burst Timing Threshold* IE defines the threshold that shall trigger a CELL SYNCHRONISATION REPORT message.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------------|----------|-------|--------------------------|--|
| Cell Sync Burst Timing Threshold | | | INTEGER (0254) | Unit: chip Range: 0 31.75 chips Step: 0.125 chip |

9.2.3.4N CSB Transmission ID

The *Cell Sync Burst Transmisson ID* IE uniquely identifies any cell synchronisation burst transmission per Node B Control Port.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| CSB Transmission ID | | | INTEGER (065535) | _ |

9.2.3.40 DL Timeslot Information LCR

The DL Timeslot Information LCR IE provides information for DL Time slot to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|---|---|-------------------------------------|-------------|-------------------------|
| DL Timeslot Information LCR | | 1 <ma xnoofD LtsLCR ></ma | | | _ | |
| >Time Slot LCR | M | | 9.2.3.24A | | 1 | |
| >Midamble Shift LCR | M | | 9.2.3.7A | | 1 | |
| >TFCI Presence | M | | 9.2.1.57 | | 1 | |
| >DL Code Information | M | | TDD DL Code Information LCR 9.2.3.19C | | I | |
| >Initial DL Transmission Power | 0 | | DL Power 9.2.1.21 | Initial power on DPCH | YES | ignore |
| >Maximum DL Power | 0 | | DL Power 9.2.1.21 | Maximum allowed power on DPCH | YES | ignore |
| >Minimum DL Power | 0 | | DL Power 9.2.1.21 | Minimum allowed power on DPCH | YES | ignore |

| Range Bound | Explanation |
|----------------|---|
| maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps |
| | TDD. |

9.2.3.4P DL Time Slot ISCP Info LCR

The *DL Time Slot ISCP Info LCR* IE provides information for DL Interference level for each time slot within the Radio Link.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|---|--------------------------|-----------------------|
| DL Time Slot ISCP Info LCR | | 1 <maxno ofDLtsLCR ></maxno | | |
| >Time Slot LCR | M | | 9.2.3.24A | |
| >DL Timeslot ISCP | М | | 9.2.3.4B | |

| Range Bound | Explanation |
|----------------|---|
| maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps |
| | TDD. |

9.2.3.4Q UpPCH Position LCR

The UpPCH Position LCR IE indicates the start point of the UpPCH channel, where the step size is 16chips, the maximum allowed value that can be utilised is 127*16=2032chips, The reference point (UpPCH Position LCR =0) is the startpoint of the timeslot of UpPTS.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| UpPCH Position LCR | | | INTEGER (0127) | |

9.2.3.5 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| DPCH ID | | | INTEGER (0239) | |

9.2.3.5a DSCH ID

The DSCH ID uniquely identifies a DSCH within a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| DSCH ID | | | INTEGER (0255) | |

9.2.3.5b DSCH Information Response

The DSCH Information Response IE provides information for DSCHs that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|------------------------------------|--------------------------|-----------------------|
| DSCH Information Response | | 1 <maxno ofDSCHs></maxno | | |
| >DSCH ID | M | | 9.2.3.5a | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Layer Address | 0 | | 9.2.1.63 | |

| Range Bound | Explanation |
|--------------|------------------------------------|
| maxnoofDSCHs | Maximum number of DSCHs for one UE |

9.2.3.5A DSCH TDD Information

The DSCH TDD Information IE provides information for DSCHs to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|---------------------------------------|--------------------------|--|-------------|----------------------|
| DSCH TDD Information | | 1 <max noofDS CHs></max | | | _ | |
| >DSCH ID | M | | 9.2.3.5a | | _ | |
| >CCTrCH ID | М | | 9.2.3.3 | DL CCTrCH in which the DSCH is mapped | _ | |
| >Transport Format Set | M | | 9.2.1.59 | For DSCH | _ | |
| >Allocation/Retention Priority | M | | 9.2.1.1A | | _ | |
| >Frame Handling Priority | M | | 9.2.1.30 | | _ | |
| >ToAWS | M | | 9.2.1.61 | | _ | |
| >ToAWE | M | | 9.2.1.60 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

| Range Bound | Explanation | |
|--------------|-----------------------------------|--|
| MaxnoofDSCHs | Maximum number of DSCH for one UE | |

9.2.3.5B DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the DwPCH, the DwPCH power is the linear sum of the power that is used for transmitting the DwPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| DwPCH Power | | | INTEGER | Unit: dBm |
| | | | (-150+400,) | Range: -15+40 dBm |
| | | | | Step: 0.1 dB |

9.2.3.5C Frame Adjustment Value

The Frame Adjustment Value IE represents the frame number correction within the initial synchronisation phase.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|--|
| Frame Adjustment Value | | | INTEGER (04095) | SFN _{new} =(SFN _{old} +Frame Adjustment Value) mod 4096 |

9.2.3.5D IPDL TDD Parameter

The *IPDL TDD Parameter* IE provides information about IPDL to be applied for 3.84Mcps TDD or 7.68Mcps TDD when activated.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|------------------------------------|-----------------------|
| IP SpacingTDD | М | | ENUMERATED (30, 40, 50, 70, 100 | See TS 25.224 [21] |

| | |) | |
|-----------------------|---|----------------------|------------------|
| IP Start | M | INTEGER (04095) See | e TS 25.224 [21] |
| IP Slot | M | INTEGER (014) See | e TS 25.224 [21] |
| IP PCCPCH | M | ENUMERATED (See | e TS 25.224 [21] |
| | | Switch off 1 frame, | |
| | | Switch off 2 frames) | |
| Burst Mode parameters | 0 | 9.2.1.5A | |

9.2.3.5E Max FPACH Power

Max FPACH Power is the maximum power that shall be used for transmitting the FPACH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the FPACH, the Max FPACH Power is maximum of the linear sum of the power that is allowed for transmitting the FPACH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| FPACH Power | | | INTEGER | Unit: dBm |
| | | | (-150+400,) | Range: -15+40 dBm |
| | | | | Step: 0.1 dB |

9.2.3.5F HS-DSCH TDD Information

The *HS-DSCH TDD Information* IE is used for initial addition of HS-DSCH information to a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|--|---|-------------|----------------------|
| HS-DSCH MAC-d Flows Information | М | | 9.2.1.31IA | | _ | |
| UE Capabilities Information | | 1 | | | _ | |
| >HS-DSCH Physical Layer Category | М | | 9.2.1.31la | | _ | |
| >1.28 Mcps TDD Uplink Physical Channel Capability | 0 | | 9.2.3.5Gc | Applicable to 1.28Mcps TDD only | YES | ignore |
| >Number of Supported Carriers | 0 | | ENUMERATE D (One-one carrier, One- three carrier, Three-three carrier, One- six carrier, Three-six carrier, Six-six carrier,) | Applicable to 1.28Mcps TDD only This IE indicates the number of carrier that UE can support at the same time, where 'One-three carrier' means the number of supported carrier is one for the uplink,and three for the downlink. | YES | reject |
| >Multi-carrier HS- DSCH Physical Layer Category | 0 | | 9.2.1.31la | Applicable to 1.28Mcps TDD only | YES | ignore |
| >MIMO SF Mode Supported For HS- PDSCH dual stream | 0 | | Enumerated (SF1, SF1/SF16) | Applicable to 1.28Mcps TDD only | YES | ignore |
| >UE TS0 Capability LCR | 0 | | 9.2.3.110 | Applicable to 1.28Mcps TDD only. | YES | ignore |
| MAC-hs Reordering Buffer Size for RLC-UM | М | | 9.2.1.38Ab | | - | |
| TDD ACK NACK Power Offset | М | | 9.2.3.18F | | - | |
| HS-SICH SIR Target | 0 | | UL SIR 9.2.1.67A | Applicable to 1.28Mcps TDD only | YES | ignore |
| HS-SICH TPC step size | 0 | | 9.2.3.21a | Applicable to 1.28Mcps TDD only | YES | ignore |
| HS-DSCH MAC-d PDU Size Format | 0 | | 9.2.1.31ID | If not present, "Indexed MAC-d PDU Size" shall be used. | YES | reject |
| TSN-Length | 0 | | 9.2.3.51 | Applicable for 1.28Mcps TDD when using multiple frequencies | YES | reject |
| MIMO Activation Indicator | 0 | | 9.2.1.119 | | YES | reject |

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9.2.3.5G HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-------------------------------|----------|--|--------------------------|---------------------------------|-------------|----------------------|
| HS-DSCH MAC-d | | 0 <max< td=""><td></td><td></td><td>_</td><td></td></max<> | | | _ | |
| Flow Specific | | noofMA | | | | |
| Information | | CdFlow | | | | |
| Response | | s> | | | | |
| >HS-DSCH MAC-d Flow ID | M | | 9.2.1.311 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | | _ | |
| >Transport Layer | Ō | | 9.2.1.63 | | _ | |
| Address | | | | | | |
| >HS-DSCH Initial | 0 | | 9.2.1.31Ha | | _ | |
| Capacity Allocation | | | | N | 01.0541 | |
| HS-SCCH Specific Information | | 0 <max< td=""><td></td><td>Not applicable to 1.28</td><td>GLOBAL</td><td>reject</td></max<> | | Not applicable to 1.28 | GLOBAL | reject |
| | | NoOfHS SCCHc | | Mcps TDD or | | |
| Response | | odes> | | 7.68Mcps TDD | | |
| >Time Slot | М | 0000 | 9.2.3.23 | | _ | |
| >Midamble Shift And | M | | 9.2.3.7 | | _ | |
| Burst Type | | | | | | |
| >TDD Channelisation | M | | 9.2.3.19 | | _ | |
| Code | . | <u> </u> | | | | |
| >HS-SICH | | 1 | | | _ | |
| Information >>HS SICH ID | M | | 9.2.3.5Gb | | _ | |
| >>Time Slot | M | | 9.2.3.23 | | | |
| >>Midamble Shift | M | | 9.2.3.7 | | | |
| And Burst Type | l IVI | | 3.2.3.7 | | | |
| >>TDD | М | | 9.2.3.19 | | _ | |
| Channelisation | | | | | | |
| Code | | | | | | |
| HS-SCCH Specific | | 0 <max< td=""><td></td><td>Not applicable to 3.84</td><td>_</td><td></td></max<> | | Not applicable to 3.84 | _ | |
| Information | | HSDPA | | Mcps TDD or | | |
| Response LCR per UARFCN | | Frequen | | 7.68Mcps TDD See note1 below | | |
| >HS-SCCH Specific | | cy> 1 <max< td=""><td></td><td>Not applicable to 3.84</td><td>GLOBAL</td><td>reject</td></max<> | | Not applicable to 3.84 | GLOBAL | reject |
| Information | | NoOfHS | | Mcps TDD or | OLOBAL | reject |
| | | SCCHc | | 7.68Mcps TDD | | |
| Response LCR | | odes> | | | | |
| >>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >>Midamble Shift | M | | 9.2.3.7A | | _ | |
| LCR | | | | | | |
| >>First TDD | M | | TDD | | _ | |
| Channelisation Code | | | Channelisatio n Code | | | |
| Code | | | 9.2.3.19 | | | |
| >>Second TDD | М | | TDD | | _ | |
| Channelisation | | | Channelisatio | | | |
| Code | | | n Code | | | |
| | | | 9.2.3.19 | | | |
| >>HS-SICH | | 1 | | | _ | |
| Information LCR >>>HS SICH ID | M | | 9.2.3.5Gb | If the Extended HS- | | |
| >>>⊓2 210 | IVI | | 9.2.3.5GD | SICH ID IE is included | _ | |
| | | | | in the HS-SICH | | |
| | 1 | | | Information LCR IE, | | |
| | 1 | | | the HS-SICH ID IE | | |
| | | | | shall be ignored. | | |
| >>>Time Slot LCR | M | | 9.2.3.24A | | _ | |
| >>>Midamble Shift LCR | M | | 9.2.3.7A | | _ | |
| >>>TDD | M | | 9.2.3.19 | | _ | |
| Channelisation | '*' | | 0.2.0.10 | | | |
| Code | 1 | | | | | |
| >>>Extended HS- | 0 | | 9.2.3.5K | The Extended HS- | YES | ignore |
| SICH ID | 1 | | | SICH ID IE shall be | | |
| | 1 | ĺ | 1 | used if the HS-SICH | İ | Ī |

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|--|---|-------------|----------------------|
| | | | | identity has a value larger than 31. | | |
| >>UsedFrequency | 0 | | UARFCN 9.2.1.65 | Applicable for 1.28Mcps TDD when using multiple frequencies. this IE indicates the frequency which is actually used by the HS-SCCH. | YES | reject |
| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable for 1.28Mcps TDD when using multiple frequencies. See note2 below | YES | ignore |
| HARQ Memory Partitioning per UARFCN | | 0 <max HSDPA Frequen cy></max | | See note 1 below | _ | |
| >HARQ Memory Partitioning | 0 | | 9.2.1.102 | | _ | |
| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable for 1.28Mcps TDD when using multiple frequencies. See note2 below | YES | ignore |
| HS-SCCH Specific Information Response 7.68Mcps | | 0 <max NoOfHS SCCHc odes></max | | Not applicable to 3.84 Mcps TDD or 1.28Mcps TDD | GLOBAL | reject |
| >Time Slot | M | oues> | 9.2.3.23 | | _ | |
| >Midamble Shift And Burst Type 7.68Mcps | М | | 9.2.3.35 | | _ | |
| >Channelisation Code 7.68Mcps | М | | TDD Channelisatio n Code 7.68Mcps 9.2.3.34 | | _ | |
| >HS-SICH Information 7.68Mcps | | 1 | 0.2.0.04 | | _ | |
| >>HS SICH ID | М | | 9.2.3.5Gb | | | |
| >>Time Slot | M | | 9.2.3.23 | | _ | |
| >>Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | | _ | |
| >>Channelisation Code 7.68Mcps | M | | TDD Channelisatio n Code 7.68Mcps 9.2.3.34 | | _ | |
| Multi-Carrier number | 0 | | INTEGER(1 maxHSDPAFr equency) | Applicable for 1.28Mcps TDD when using multiple frequencies. | YES | ignore |
| MIMO SF Mode for HS- PDSCH dual stream | 0 | | Enumerated (SF1, SF1/SF16) | Applicable for 1.28Mcps TDD when MIMO is configured | YES | reject |
| MIMO Reference Signal Information | 0 | 0 <max NoOfHS SCCHc</max | | Applicable for 1.28Mcps TDD when MIMO is configured | YES | reject |

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|-----------------------|--------------------------|-------------|----------------------|
| | | odes> | | | | |
| >HS-SICH Reference Signal Information | М | | 9.2.3.103 | | YES | |

Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxHSDPAFrequency are represented by separate ASN.1 structures with different criticalities.

Note 2: The UARFCN IE in the HARQ Memory Partitioning per UARFCN IE has the same content as that in the HS-SCCH Specific Information Response LCR per UARFCN IE. They will be represented by one ASN.1 structure with same criticalities

| Range Bound | Explanation |
|--------------------|---|
| maxnoofMACdFlows | Maximum number of HS-DSCH MAC-d flows. |
| maxnoofHSSCCHcodes | Maximum number of HS-SCCH codes |
| maxHSDPAFrequency | Maximum number of Frequencies that UE can support |

9.2.3.5GA HS-DSCH TDD Update Information

The *HS-DSCH TDD Update Information* IE provides information for HS-DSCH to be updated. At least one IE shall be present.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|--------------------------|-----------------------|
| HS-SCCH Code Change Indicator | 0 | | 9.2.1.31K | |
| TDD ACK NACK Power Offset | 0 | | 9.2.3.18F | |

9.2.3.5Ga HS-SCCH ID

The HS-SCCH ID identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| HS SCCH ID | | | INTEGER (031) | |

9.2.3.5Gb HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| HS SICH ID | | | INTEGER (031) | |

9.2.3.5Gc 1.28 Mcps TDD Uplink Physical Channel Capability

The 1.28 Mcps TDD Uplink Physical Channel Capability IE defines the UE uplink radio access capacity, see ref TS 25.306 [33].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|---|-----------------------|
| Maximum Number of timeslots per subframe | М | | INTEGER (16) | |
| Maximum number of physical channels per timeslot | M | | ENUMERATED (one, two,, three, four) | |

9.2.3.5H IPDL TDD Parameters LCR

The IPDL TDD Parameters LCR IE provides information about IPDL to be applied for 1.28Mcps TDD when activated.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--|-----------------------|
| IP SpacingTDD | M | | ENUMERATED (30, 40, 50, 70, 100,) | See TS 25.224 [21] |
| IP Start | M | | INTEGER (04095) | See TS 25.224 [21] |
| IP_Sub | М | | ENUMERATED (First, Second, Both) | See TS 25.224 [21] |
| Burst Mode Parameters | 0 | | 9.2.1.5A | |

9.2.3.5I TSN-Length

Indicates the TSN bits applied to the MAC-hs PDU frame.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| TSN-Length | | | ENUMERATED (tsn- | |
| | | | 6bits, tsn-9bits) | |

9.2.3.5J Extended HS-SCCH ID

The Extended HS-SCCH ID LCR identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs in a cell for 1.28Mcps TDD.

| IE/Group Name | Presenc e | Range | IE Type and Reference | Semantics Description |
|---------------------|--------------|-------|--------------------------|--|
| Extended HS-SCCH ID | | | INTEGER(32255) | The Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31. |

9.2.3.5K Extended HS-SICH ID

The Extended HS-SICH ID LCR identifies unambiguously a HS-SICH in a cell for 1.28Mcps TDD

| IE/Group Name | Presenc e | Range | IE Type and Reference | Semantics Description |
|---------------------|--------------|-------|--------------------------|--|
| Extended HS-SICH ID | | | INTEGER(32255) | The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. |

9.2.3.6 Max PRACH Midamble Shift

Indicates the maximum number of Midamble shifts to be used in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| Max PRACH Midamble Shift | | | ENUMERATED | |
| | | | (4, 8,,16) | |

9.2.3.7 Midamble Shift And Burst Type

This information element indicates burst type and midamble allocation for burst types 1, 2 and 3.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|------------------------------|
| CHOICE Burst Type | | | | |
| >Type1 | | | | |
| >>Midamble Configuration Burst Type 1 And 3 | М | | ENUMERATED (4, 8, 16) | As defined in TS 25.221 [19] |
| >>CHOICE Midamble Allocation Mode | М | | | |
| >>>Default Midamble | | | NULL | |
| >>>Common Midamble | | | NULL | |
| >>>UE Specific Midamble | | | | |
| >>Midamble Shift Long | M | | INTEGER (015) | |
| >Type2 | | | | |
| >>Midamble Configuration Burst Type 2 | М | | ENUMERATED (3, 6) | As defined in TS 25.221 [19] |
| >>CHOICE Midamble Allocation Mode | М | | | |
| >>>Default Midamble | | | NULL | |
| >>>Common Midamble | | | NULL | |
| >>>UE Specific Midamble | | | | |
| >>Midamble Shift Short | M | | INTEGER (05) | |
| >Type3 | | | | UL only |
| >>Midamble Configuration Burst Type 1 And 3 | М | | ENUMERATED (4, 8, 16) | As defined in TS 25.221 [19] |
| >>CHOICE Midamble Allocation Mode | М | | | |
| >>>Default Midamble | | | NULL | |
| >>>UE Specific Midamble | | | | |
| >>Midamble Shift Long | M | | INTEGER (015) | |

9.2.3.7A Midamble Shift LCR

This information element indicates midamble allocation in 1.28Mcps TDD.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--|------------------------------|
| Midamble Allocation Mode | М | | ENUMERATED (Default midamble, Common midamble, UE specific midamble,) | |
| Midamble Shift Long | C-UE | | INTEGER (015) | |
| Midamble Configuration LCR | М | | ENUMERATED (2, 4, 6, 8, 10, 12, 14, 16,) | As defined in TS 25.221 [19] |

| Condition | Explanation |
|-----------|--|
| UE | The IE shall be present if the Midamble Allocation Mode IE is set to |
| | "UE-specific midamble". |

9.2.3.7Aa Notification Indicator Length

The Notification Indicator Length indicates the number of symbols for Notification Indication transmitted in one timeslot (see ref TS 25.221 [19]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------------|----------|-------|--------------------------|-----------------------|
| Notification Indicator Length | | | ENUMERATED (2, 4, 8,) | |

9.2.3.7B Number Of Cycles Per SFN Period

The *Number Of Cycles Per SFN Period* IE indicates the number of repetitions per SFN period where the same schedule shall apply.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| Number Of Cycles Per SFN | | | ENUMERATED | |
| Period | | | (1, 2, 4, 8,, | |
| | | | 16, 32, 64) | |

9.2.3.7C Number Of Repetitions Per Cycle Period

The *Number Of Repetitions Per Cycle Period* IE indicates the number of Sync frames per Cycle Length where the [3.84Mcps TDD - cell synchronisation bursts] [1.28Mcps TDD - Sync_DL Codes] shall be transmitted or the cell synchronisation bursts from the neighbouring cells shall be measured.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| Number Of Repetitions Per | | | INTEGER (210) | |
| Cycle Period | | | | |

9.2.3.7D Number Of Subcycles Per Cycle Period

The *Number Of Subcycles Per Cycle Period* IE indicates the number of subcycles within a Synchronisation Cycle. Within each subcycle, the same sequence of SYNC_DL Code transmissions and receptions is performed.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Number Of Subcycles Per | | | INTEGER (116,) | |
| Cycle Period | | | · | |

9.2.3.8 Paging Indicator Length

The Paging Indicator Length indicates the number of symbols for Page Indication transmitted in one timeslot (see ref TS 25.221 [19]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Paging Indicator Length | | | ENUMERATED (2, 4, 8,) | |

9.2.3.9 PCCPCH Power

The Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the Primary CCPCH power is the linear sum of the power that is used for transmitting the Primary CCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|--|
| PCCPCH Power | | | INTEGER (-150+400,) | Unit: dBm Range: -15+40 dBm Step: 0.1 dB |

9.2.3.10 PDSCH ID

The PDSCH ID identifies unambiguously a PDSCH inside a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| PDSCH ID | | | INTEGER (0255) | |

9.2.3.11 PDSCH Set ID

The PDSCH Set Id identifies unambiguously a PDSCH Set inside a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|------------------------|
| PDSCH Set ID | | | INTEGER (0255) | See ref. TS 25.430 [6] |

9.2.3.11A Primary CCPCH RSCP

Received Signal Code Power is the received power on PCCPCH of the target cell after despreading. The reference point for the RSCP is the antenna connector at the UE, see ref. TS 25.225 [5].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|---|
| Primary CCPCH RSCP | | | INTEGER (091) | According to mapping of the non-negative values in ref. TS 25.123 [23]. |

9.2.3.11B Primary CCPCH RSCP Delta

Primary CCPCH RSCP Delta is the offset used to report the negative reporting range of P-CCPCH RSCP as per TS 25.123 [23].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|---|
| Primary CCPCH RSCP Delta | | | INTEGER(-51,) | If present, the actual value of Primary CCPCH RSCP = |
| | | | | Primary CCPCH RSCP Delta |

9.2.3.12 PUSCH ID

The PUSCH ID identifies unambiguously a PUSCH inside a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| PUSCH ID | | | INTEGER (0255) | |

9.2.3.13 PUSCH Set ID

The PUSCH Set ID identifies unambiguously a PUSCH Set inside a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|------------------------|
| PUSCH Set ID | | | INTEGER (0255) | See ref. TS 25.430 [6] |

9.2.3.14 PRACH Midamble

The PRACH Midamble indicates if only the Basic Midamble Sequence or also the time-inverted Midamble Sequence is used.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|---------------------------|-----------------------|
| PRACH Midamble | | | ENUMERATED (Inverted, | |
| | | | Direct, | |

9.2.3.14A Reference Clock Availability

The *Reference Clock Availability* IE is used to indicate the presence and operating of a Reference Clock connected to a TDD cell for cell synchronisation purpose.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|--------------------------|-----------------------|
| Reference Clock Availability | | | ENUMERATED (| |
| , | | | Available, | |
| | | | Not Available) | |

9.2.3.14B Reference SFN Offset

The *Reference SFN Offset* IE indicates the number of frames the reference SFN shall be shifted compared to the SFN derived from the synchronisation port.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------|----------|-------|--------------------------|-----------------------|
| Reference SFN Offset | | | INTEGER (0255) | |

9.2.3.15 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. TS 25.331 [18].

[1.28Mcps TDD - When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Length represents the number of consecutive Subframes, i.e. 5ms inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. TS 25.331 [18].]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Repetition Length | | | INTEGER (163) | |

9.2.3.16 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot K is assigned to a physical channel in the Radio Frame J, it is assigned to the same physical channel also in all the Radio Frames J+n*Repetition Period (where n is an integer) see ref. TS 25.331 [18].

[1.28Mcps TDD- When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Period represents the number of consecutive Subframes, i.e. 5ms after which the same assignment scheme of Time Slots to a Physical Channel is repeated see ref. TS 25.331 [18].]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--|-----------------------|
| Repetition Period | | | ENUMERATED (1, 2, 4, 8, 16, 32, 64,) | |

9.2.3.17 SCH Time Slot

The *SCH Time Slot* IE represents the first time slot (k) of a pair of time slots inside a Radio Frame that shall be assigned to the Physical Channel SCH. The *SCH Time Slot* IE is only applicable if the value of *Sync Case* IE is Case 2 since in this case the SCH is allocated in TS#k and TS#k+8.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| SCH Time Slot | | | INTEGER (06) | |

9.2.3.18 Sync Case

The SCH and PCCPCH are mapped on one or two downlink slots per frame. There are two cases of SCH and PCCPCH allocation as follows:

Case 1) SCH and PCCPCH allocated in a single TS#k

Case 2) SCH allocated in two TS: TS#k and TS#k+8 PCCPCH allocated in TS#k

[1.28Mcps TDD - There is no Sync Case indication needed for 1.28Mcps TDD. If the *Sync Case* IE must be included in a message from CRNC to Node B used for 1.28Mcps TDD, the CRNC should indicate Sync Case 1 and the Node B shall ignore it.]

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Sync Case | | | INTEGER (12,) | |

9.2.3.18A Special Burst Scheduling

The number of frames between special burst transmissions during DTX.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|--|
| Special Burst Scheduling | | | INTEGER (1256) | Number of frames between special burst transmission during DTX |

9.2.3.18B SYNC_DL Code ID

The SYNC_DL Code ID identifies the SYNC_DL Code which used by DwPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------|----------|-------|--------------------------|-----------------------|
| SYNC_DL Code ID | | | INTEGER (132,) | |

9.2.3.18C Sync Frame Number

The *Sync Frame Number* IE indicates the number of the Sync frame within a Synchronisation Cycle or Subcycle, respectively, where the cell synchronisation bursts shall be transmitted or the cell synchronisation bursts from the neighbouring cells shall be measured.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|----------|-------|--------------------------|-----------------------|
| Sync Frame Number | | | INTEGER (110) | |

9.2.3.18D Synchronisation Report Characteristics

The *Synchronisation Report Characteristics* IE defines how the reporting on measured [3.84Mcps TDD - cell synchronisation bursts] [1.28Mcps TDD - Sync_DL Codes] shall be performed

Different methods shall apply for the measured [3.84Mcps TDD - cell synchronisation burst] [1.28Mcps TDD - Sync_DL Codes] reports. [3.84Mcps TDD - In the frequency acquisition phase the measurement report shall be sent when the frequency locking is completed.] In the initial phase and for the measurement on late-entrant cells an immediate report after the measured frame is expected.

In the steady-state phase measurement reports may be given after every measured frame, after every SFN period, after every cycle length or only when the requested threshold is exceeded.

| IE/Group Name | Presenc e | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------------------------------|--|--|--|-------------|----------------------|
| Synchronisation Report Characteristics Type | M | | ENUMERATED (Frame related, SFN period related, Cycle length related, Threshold exceeding, Frequency Acquisition completed,) | Bescription | - | Onticumy |
| Threshold Exceeding | C- Threshol dExceedi ng | | | Applies only to the Steady State Phase | - | |
| >Cell Sync Burst Threshold Information | | 0 <maxn oofCellSy ncBursts ></maxn | | Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD. | - | |

| >>Sync Frame Number To Receive | M | | Sync Frame Number 9.2.3.18C | | - | |
|---|---|--|---|--|--------|--------|
| >>Cell Sync Burst Information | | 1 <maxn oofrecept ionsperS yncFram e></maxn | | | - | |
| >>>Cell Sync Burst Code | М | | 9.2.3.4G | | _ | |
| >>>Cell Sync Burst Code Shift | M | | 9.2.3.4H | | _ | |
| >>>Cell Sync Burst Arrival Time | 0 | | Cell Sync Burst Timing 9.2.3.4L | | - | |
| >>>Cell Sync Burst Timing Threshold | 0 | | 9.2.3.4M | | - | |
| >SYNC_DL Code Threshold Information LCR | | 0 <maxn oofSyncF ramesLC R></maxn | | Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD. | GLOBAL | ignore |
| >>Sync Frame Number To Receive | M | | Sync Frame Number 9.2.3.18C | | _ | |
| >>SYNC_DL Code Information LCR | | 1 <maxn oofrecept ionsperS yncFram eLCR></maxn | | | _ | |
| >>>SYNC_DL Code | M | | 9.2.3.18B | | _ | |
| >>>SYNC_DL Code ID Arrival Time | О | | Cell Sync Burst Timing LCR 9.2.3.4La | | - | |
| >>>SYNC_DL Code ID Timing Threshold | 0 | | Cell Sync Burst Timing Threshold 9.2.3.4M | | _ | |

| Range Bound | Explanation |
|----------------------------------|---|
| maxnoofCellSyncBursts | Maximum number of cell synchronisation burst per cycle for 3.84Mcps |
| | TDD |
| maxnoofreceptionsperSyncFrame | Maximum number of cell synchronisation burst receptions per Sync |
| | Frame for 3.84Mcps TDD |
| maxnoofSyncFramesLCR | Maximum number of SYNC Frames per repetition period for |
| | 1.28Mcps TDD |
| maxnoofreceptionsperSyncFrameLCR | Maximum number of SYNC_DL Code ID receptions per Sync Frame |
| | for 1.28Mcps TDD |

9.2.3.18E Synchronisation Report Type

The *Synchronisationt Report Type* IE represents the individual types of synchronisation reports that shall apply within the individual synchronisation phases. (see TS 25.402 [17]).

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------------|----------|-------|---------------------|-----------------------|
| | | | Reference | |
| Synchronisation Report Type | | | ENUMERATED (| |
| | | | Initial Phase, | |
| | | | Steady-State Phase, | |
| | | | Late-Entrant Cell, | |
| | | | Frequency | |
| | | | Acquisition, | |
| | | |) | |

9.2.3.18F TDD ACK NACK Power Offset

The *TDD ACK NACK Power Offset* IE indicates Power offset used in the UL in the HS-SICH between transmissions carrying positive and negative acknowledgements as per TS 25.331 [18].

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|---------------------------|----------|-------|-----------------------|-----------------------|
| TDD ACK NACK Power Offset | | | INTEGER (-78,) | Unit: dB |
| | | | | Range: -7+8 dB |
| | | | | Step: 1 dB |

9.2.3.19 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--|-----------------------|
| TDD Channelisation Code | | | ENUMERATED ((1/1), (2/1), (2/2), (4/1), (4/4), (8/1), (8/8), (16/1), (16/16),) | |

9.2.3.19a TDD Channelisation Code LCR

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 1.28Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16 and there is a choice between QPSK and 8PSK modulation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|-----------------------------|--|
| TDD Channelisation Code | | | 9.2.3.19 | |
| Modulation | | | ENUMERATED (QPSK, 8PSK,) | Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD. 8PSK denotes 16QAM for S-CCPCH |

9.2.3.19A TDD DPCH Offset

The Offset represents the phase information for the allocation of a group of dedicated physical channels. The *Offset Type* IE = "No Initial Offset" is used when a starting offset is not required and the TDD Physical channel offset for each DPCH in the CCTrCH shall be directly determined from the TDD DPCH Offset. The *Offset Type* IE = "Initial Offset" is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offet for each DPCH in this CCTrCH shall calculated by TDD DPCH Offset *mod* Repetition period, see ref. TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE Offset Type | | | | |
| >Initial Offset | | | | |
| >>TDD DPCH Offset Value | M | | INTEGER (0255) | |
| >No Initial Offset | | | | |
| >>TDD DPCH Offset Value | M | | INTEGER (063) | |

9.2.3.19B TDD DL Code Information

The TDD DL Code Information IE provides DL Code information for the RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|------------------------------------|--------------------------|-----------------------|
| TDD DL Code Information | | 1 <maxno ofDPCHs></maxno | | |
| >DPCH ID | M | | 9.2.3.5 | |
| >TDD Channelisation Code | М | | 9.2.3.19 | |

| Range Bound | Explanation |
|--------------|---------------------------------------|
| maxnoofDPCHs | Maximum number of DPCHs in one CCTrCH |

9.2.3.19C TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|--|--------------------------|-----------------------|
| TDD DL Code Information LCR | | 1 <maxno ofDPCHsL CR></maxno | | |
| >DPCH ID | M | | 9.2.3.5 | |
| >TDD Channelisation Code LCR | М | | 9.2.3.19a | |
| >TDD DL DPCH Time Slot Format LCR | М | | 9.2.3.19D | |

| Range Bound | Explanation |
|-----------------|---|
| maxnoofDPCHsLCR | Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD |

9.2.3.19D TDD DL DPCH Time Slot Format LCR

TDD DL DPCH Time Slot Format LCR indicates the time slot formats used in DL DPCH for 1.28Mcps TDD (see ref. TS 25.221 [19]). It also applies to PDSCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|--|
| CHOICE Modulation | M | | | |
| >QPSK | | | | |
| >>QPSK TDD DL DPCH Time Slot Format LCR | М | | INTEGER (024,) | |
| >8PSK | | | | |
| >>8PSK TDD DL DPCH Time Slot Format LCR | М | | INTEGER (024,) | For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format, INTEGER (011). |

9.2.3.20 TDD Physical Channel Offset

The Offset represents the phase information for the allocation of a physical channel. (SFN mod Repetition Period = Offset) see ref. TS 25.331 [18].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| TDD Physical Channel Offset | | | INTEGER (063) | |

9.2.3.21 TDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| TDD TPC Downlink Step Size | | | ENUMERATED (1, 2, 3,) | Unit: dB |

9.2.3.21a TDD TPC UL Step Size

This parameter indicates step size for the UL power adjustment (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|-------|--------------------------|-----------------------|
| TDD TPC Uplink Step Size | | | ENUMERATED | Unit: dB |
| | | | (1, 2, 3,) | |

9.2.3.21A TDD UL Code Information

The TDD UL Code Information IE provides information for UL Code to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|------------------------------------|--------------------------|-----------------------|
| TDD UL Code Information | | 1 <maxno ofDPCHs></maxno | | |
| >DPCH ID | М | | 9.2.3.5 | |
| >TDD Channelisation Code | M | | 9.2.3.19 | |

| Range Bound | Explanation |
|--------------|---------------------------------------|
| maxnoofDPCHs | Maximum number of DPCHs in one CCTrCH |

9.2.3.21B TDD UL Code Information LCR

The TDD UL Code Information LCR IE provides information for UL Code to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|--|--------------------------|-----------------------|
| TDD UL Code Information LCR | | 1 <maxno ofDPCHsL CR></maxno | | |
| >DPCH ID | М | | 9.2.3.5 | |
| >TDD Channelisation Code LCR | М | | 9.2.3.19a | |
| >TDD UL DPCH Time Slot Format LCR | М | | 9.2.3.21C | |

| Range Bound | Explanation |
|-----------------|--|
| maxnoofDPCHsLCR | Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD |

9.2.3.21C TDD UL DPCH Time Slot Format LCR

TDD UL DPCH Time Slot Format LCR indicates the time slot formats used in UL DPCH for 1.28Mcps TDD (see ref. TS 25.221 [19]). It also applies to PUSCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|-----------------------|
| CHOICE Modulation | M | | | |
| >QPSK | | | | |
| >>QPSK TDD UL DPCH Time Slot Format LCR | М | | INTEGER (069,) | |
| >8PSK | | | | |
| >>8PSK TDD UL DPCH Time Slot Format LCR | М | | INTEGER (024,) | |

9.2.3.22 TFCI Coding

The TFCI Coding describes the way how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| TFCI Coding | | | ENUMERATED | |
| | | | (4, 8, 16, 32,) | |

9.2.3.22a Timing Adjustment Value

The *Timing Adjustment Value* IE indicates the timing correction within a Frame for 3.84Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|--------------------------|--|
| CHOICE Phase | | | | According to mapping in TS 25.123 [23] |
| >Initial Phase | | | | |
| >>Timing Adjustment Value | M | | INTEGER (01048575,) | |
| >Steady State Phase | | | | |
| >>Timing Adjustment Value | М | | INTEGER (0255,) | |

9.2.3.22b Timing Adjustment Value LCR

The *Timing Adjustment Value LCR* IE indicates the timing correction within a Frame for 1.28Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------------|----------|-------|-------------|--|
| | | | Reference | |
| CHOICE Phase | | | | According to mapping in TS 25.123 [23] |
| >Initial Phase | | | | |
| >>Timing Adjustment | M | | INTEGER (0 | |
| Value | | | 524287,) | |
| >Steady State Phase | | | | |
| >>Timing Adjustment | М | | INTEGER | |
| Value | | | (0127,) | |

9.2.3.22A Timing Advance Applied

Defines the need for Rx Timing Deviation measurement results to be reported in a particular cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Timing Advance Applied | | | ENUMERATED (| |
| | | | Yes, | |
| | | | No) | |

9.2.3.23 Time Slot

The Time Slot represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Time Slot | | | INTEGER (014) | |

9.2.3.24 Time Slot Direction

This parameter indicates whether the TS in the cell is used in Uplink or Downlink direction.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|-----------------------|-----------------------|
| Time Slot Direction | | | ENUMERATED (| |
| | | | UL, | |
| | | | DL, | |
| | | |) | |

9.2.3.24A Time Slot LCR

The Time Slot LCR is the number of the traffic time slot within a 5 ms subframe of LCR TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| Time Slot LCR | | | INTEGER (06) | |

9.2.3.24B Time Slot LCR Extension

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|---|
| Time Slot LCR Extension | | | ENUMERATED (ts7,) | ts7 indicates the MBSFN Special Timeslot for 1.28Mcps TDD MBSFN Dedicated Carrier. |

9.2.3.25 Time Slot Status

This parameter indicates whether the TS in the cell is active or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|-----------------------|
| Time Slot Status | | | ENUMERATED (| |
| | | | Active, | |
| | | | Not Active, | |
| | | |) | |

9.2.3.26 Transmission Diversity Applied

Defines if Transmission Diversity on physical channels that may use closed loop transmit diversity is to be applied in a cell (see ref. TS 25.221 [19]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|-------|--------------------------|--|
| Transmission Diversity Applied | | | BOOLEAN | True: Transmission Diversity shall be applied in this Cell. False: Transmission Diversity shall not be applied in this Cell. |

9.2.3.26A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the Node B, see ref. TS 25.225 [5].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|---|
| UL Timeslot ISCP | | | INTEGER (0127) | According to mapping in TS 25.123 [23]. |

9.2.3.26B UL PhysCH SF Variation

Indicates whether variation of SF in UL is supported by Radio Link or not.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--|-----------------------|
| UL PhysCH SF Variation | | | ENUMERATED (SF_Variation_supported, SF_Variation_NOT_ supported) | |

9.2.3.26C UL Timeslot Information

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------------|----------|-----------------------------------|---|-----------------------|
| UL Timeslot Information | | 1 <maxno ofULts></maxno | | |
| >Time Slot | M | | 9.2.3.23 | |
| >Midamble Shift And Burst Type | M | | 9.2.3.7 | |
| >TFCI Presence | M | | 9.2.1.57 | |
| >UL Code Information | М | | TDD UL Code Information 9.2.3.21A | |

| Range Bound | Explanation |
|-------------|--|
| maxnoofULts | Maximum number of Uplink time slots per Radio Link |

9.2.3.26D UL Time Slot ISCP Info

The UL Time Slot ISCP Info IE provides information for UL Interfernce level for each time slot within the Radio Link.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-----------------------------------|--------------------------|-----------------------|
| UL Time Slot ISCP Info | | 1 <maxno ofULts></maxno | | |
| >Time Slot | M | | 9.2.3.23 | |
| >UL Timeslot ISCP | M | | 9.2.3.26A | |

| Range Bound | Explanation |
|-------------|--|
| maxnoofULts | Maximum number of Uplink time slots per Radio Link |

9.2.3.26E UL Timeslot Information LCR

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

| IE/Group Name | Presenc e | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--------------------------------|--------------|---|---|--------------------------|-------------|----------------------|
| UL Timeslot Information LCR | | 1 <maxno ofULtsLCR ></maxno | | | _ | |
| >Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >Midamble Shift LCR | М | | 9.2.3.7A | | _ | |
| >TFCI Presence | М | | 9.2.1.57 | | _ | |
| >UL Code Information | М | | TDD UL Code Information LCR 9.2.3.21B | | - | |
| >PLCCH Information | 0 | | 9.2.3.31 | | YES | reject |

| Range Bound | Explanation |
|----------------|---|
| maxnoofULtsLCR | Maximum number of Uplink time slots per Radio Link for 1.28Mcps |
| | TDD. |

9.2.3.26F UL Time Slot ISCP Info LCR

The *UL Time Slot ISCP Info LCR* IE provides information for UL Interfernce level for each time slot within the Radio Link.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------------|----------|---|-------------|-----------------------|
| | | | Reference | |
| UL Time Slot ISCP Info LCR | | 1 <maxno< td=""><td></td><td></td></maxno<> | | |
| | | ofULtsLCR | | |
| | | > | | |
| >Time Slot LCR | М | | 9.2.3.24A | |
| >UL Timeslot ISCP | M | | 9.2.3.26A | |

| Range Bound | Explanation |
|----------------|---|
| maxnoofULtsLCR | Maximum number of Uplink time slots per Radio Link for 1.28Mcps |
| | TDD |

9.2.3.26G Uplink Synchronisation Frequency

The UL Synchronisation Frequency IE specifies the frequency of the adjustment of the uplink transmission timing.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Uplink Synchronisation | | | INTEGER (18) | Unit: subframe |
| Frequency | | | | Step: 1 |

9.2.3.26H Uplink Synchronisation Step Size

The *UL Synchronisation Step Size* IE specifies the step size to be used for the adjustment of the uplink transmission timing.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|-------|--------------------------|----------------------------|
| Uplink Synchronisation Step Size | | | INTEGER (18) | Unit: 1/8 chip Step: 1. |

9.2.3.27 USCH ID

The USCH ID uniquely identifies a USCH within a Node B Communication Context.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| USCH ID | | | INTEGER (0255) | |

9.2.3.28 USCH Information

The USCH Information IE provides information for USCHs to be established.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|---------------------------------------|--------------------------|--|-------------|----------------------|
| USCH Information | | 1 <max noofUS CHs></max | | | _ | |
| >USCH ID | M | | 9.2.3.27 | | _ | |
| >CCTrCH ID | М | | 9.2.3.3 | UL CCTrCH in which the USCH is mapped | _ | |
| >Transport Format Set | M | | 9.2.1.59 | For USCH | _ | |
| >Allocation/Retention Priority | M | | 9.2.1.1A | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
| >TNL QoS | 0 | | 9.2.1.58A | | YES | ignore |

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| Range Bound | Explanation | | |
|--------------|------------------------------------|--|--|
| maxnoofUSCHs | Maximum number of USCHs for one UE | | |

9.2.3.29 USCH Information Response

The USCH Information Response IE provides information for USCHs that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|------------------------------------|--------------------------|-----------------------|
| USCH Information Response | | 1 <maxno ofUSCHs></maxno | | |
| >USCH ID | M | | 9.2.3.27 | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Laver Address | 0 | | 9.2.1.63 | |

| Range Bound | Explanation | | |
|--------------|------------------------------------|--|--|
| maxnoofUSCHs | Maximum number of USCHs for one UE | | |

9.2.3.30 SCTD Indicator

Indicates if SCTD antenna diversity is applied or not to beacon channels (see ref. TS 25.221 [19]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------------------|-----------------------|
| SCTD Indicator | | | ENUMERATED (active, inactive) | |

9.2.3.31 PLCCH Information

The PLCCH Information IE carries a PLCCH assignment for a timeslot of an UL DCH-type CCTrCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Common Physical Channel ID | M | | 9.2.1.13 | |
| PLCCH Sequence Number | M | | 9.2.3.32 | |

9.2.3.32 PLCCH Sequence Number

This sequence number represents a portion of a PLCCH used to signal TPC / SS bits to a single UE. A value of zero indicates that the PLCCH assignment has been deleted.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--------------------------|-----------------------|
| PLCCH Sequence Number | | | INTEGER (014) | |

9.2.3.33 Common Physical Channel ID 7.68Mcps

Common Physical Channel ID is the unique identifier for one common physical channel within a cell for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Common Physical Channel ID | | | INTEGER (0511) | |
| 7.68 Mcps | | | | |

9.2.3.34 TDD Channelisation Code 7.68Mcps

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 7.68Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code that can have a spreading factor of 1, 2, 4, 8, 16 or 32.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| TDD Channelisation Code | | | ENUMERATED((1/1 | |
| | | |), (2/1), (2/2), (4/1), | |
| | | | (4/4), (8/1), (8/8), | |
| | | | (16/1), (16/16), | |
| | | | (32/1), (32,32),) | |

9.2.3.35 Midamble Shift And Burst Type 7.68Mcps

This information element indicates burst type and midamble allocation for burst types 1,2 and 3 for 7.68Mcps TDD.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|-----------------------|------------------------------|
| CHOICE Burst Type | | | | |
| >Type1 | | | | |
| >>Midamble Configuration Burst Type 1 And 3 | М | | ENUMERATED (4, 8, 16) | As defined in TS 25.221 [19] |
| >>CHOICE Midamble Allocation Mode | М | | 8, 10) | |
| >>>Default Midamble | | | NULL | |
| >>>Common Midamble | | | NULL | |
| >>>UE Specific Midamble | | | | |
| >>Midamble Shift Long | М | | INTEGER (015) | |
| >Type2 | | | | |
| >>Midamble Configuration Burst Type 2 | М | | ENUMERATED (4, 8) | As defined in TS 25.221 [19] |
| >>CHOICE Midamble Allocation Mode | М | | | |
| >>>Default Midamble | | | NULL | |
| >>>Common Midamble | | | NULL | |
| >>>UE Specific Midamble | | | | |
| >>Midamble Shift Short | M | | INTEGER (07) | |
| >Type3 | | | , | UL only |
| >>Midamble Configuration Burst Type 1 And 3 | М | | ENUMERATED (4, 8, 16) | As defined in TS 25.221 [19] |
| >>CHOICE Midamble Allocation Mode | М | | | |
| >>>Default Midamble | | | NULL | |
| >>>UE Specific Midamble | | | | |
| >>Midamble Shift Long | М | | INTEGER (015) | |

9.2.3.36 Common Physical Channel Status Information 7.68Mcps

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--------------------------|-----------------------|
| Common Physical Channel ID 7.68 Mcps | М | | 9.2.3.33 | |
| Resource Operational State | M | | 9.2.1.52 | |
| Availability Status | M | | 9.2.1.2 | |

9.2.3.37 Neighbouring TDD Cell Measurement Information 7.68Mcps

This IE provides information on the 7.68 Mcps TDD neighbouring cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time Slot* IE and *Midamble Shift And Burst Type 7.68Mcps* IE shall be included if available.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-------|--------------------------|------------------------------------|
| UC-ld | M | | 9.2.1.65B | |
| UARFCN | М | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]) |
| Cell Parameter ID | M | | 9.2.3.4 | |
| Time Slot | 0 | | 9.2.3.23 | |
| Midamble Shift And Burst Type 7.68Mcps | 0 | | 9.2.3.35 | |

9.2.3.38 UL Timeslot Information 7.68Mcps TDD

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|-----------------------------------|--|-----------------------|
| UL Timeslot Information | | 1 <maxno ofULts></maxno | | |
| >Time Slot | M | | 9.2.3.23 | |
| >Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | |
| >TFCI Presence | M | | 9.2.1.57 | |
| >UL Code Information | M | | TDD UL Code Information 7.68Mcps TDD 9.2.3.40 | |

| Range Bound | Explanation | | |
|-------------|--|--|--|
| maxnoofULts | Maximum number of Uplink time slots per Radio Link | | |

9.2.3.39 DL Timeslot Information 7.68Mcps TDD

The *DL Timeslot Information* IE provides information for DL Time slot to be established for 7.68Mcps TDD.

| IE/Group Name | Presence Range IE Type and Reference | | Semantics Description | |
|--|--------------------------------------|-----------------------------------|--|--|
| DL Timeslot Information | | 1 <maxno ofDLts></maxno | | |
| >Time Slot | M | | 9.2.3.23 | |
| >Midamble Shift And Burst Type 7.68Mcps | M | | 9.2.3.35 | |
| >TFCI Presence | М | | 9.2.1.57 | |
| >DL Code Information | M | | TDD DL Code Information 7.68Mcps TDD 9.2.3.41 | |

| Range Bound | Explanation |
|-------------|--|
| maxnoofDLts | Maximum number of Downlink time slots per Radio Link |

9.2.3.40 TDD UL Code Information 7.68Mcps TDD

The *TDD UL Code Information 7.68Mcps TDD* IE provides information for UL Code to be established for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|------------------------------------|--------------------------|-----------------------|
| TDD UL Code Information | | 1 <maxno ofDPCHs></maxno | | |
| >DPCH ID | M | | 9.2.3.5 | |
| >TDD Channelisation Code 7.68Mcps | М | | 9.2.3.34 | |

| Range Bound | Explanation | | | |
|--------------|--|--|--|--|
| maxnoofDPCHs | Maximum number of uplink DPCHs in one CCTrCH at 7.68Mcps | | | |

9.2.3.41 TDD DL Code Information 7.68Mcps TDD

The TDD Code Information 7.68Mcps TDD IE provides DL Code information for the RL for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|--|--------------------------|-----------------------|
| TDD DL Code Information | | 1 <maxno ofDPCHs7 68></maxno | | |
| >DPCH ID | M | | 9.2.3.5 | |
| >TDD Channelisation Code 7.68Mcps | M | | 9.2.3.34 | |

| Range Bound | Explanation | | |
|-----------------|--|--|--|
| maxnoofDPCHs768 | Maximum number of downlink DPCHs in one CCTrCH at 7.68Mcps | | |

9.2.3.42 DPCH ID 7.68Mcps

The DPCH ID 7.68Mcps identifies unambiguously a DPCH inside a downlink Radio Link for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| DPCH ID | | | INTEGER (0479) | |

9.2.3.43 PDSCH ID 7.68Mcps

The PDSCH ID 7.68Mcps identifies unambiguously a PDSCH inside a cell for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| PDSCH ID | | | INTEGER (0511) | |

9.2.3.44 Max E-RUCCH Midamble Shift

Indicates the maximum number of Midamble shifts to be used in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--------------------------|-----------------------|
| Max E-RUCCH Midamble Shift | | | ENUMERATED (4, 8,,16) | |

9.2.3.45 E-PUCH Information

The *E-PUCH Information* IE provides parameters to configure the E-PUCH physical channel for 3.84Mcps TDD and 7.68 Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|---------------------------|--|
| Minimum code rate | M | | INTEGER (063) | Unit: - Range: 0.0551 Step: 0.015 |
| Maximum code rate | M | | INTEGER (063) | Unit: - Range: 0.0551 Step: 0.015 |
| HARQ Info for E-DCH | М | | ENUMERATED (rv0, rvtable) | 'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in TS 25.212 [8] |
| N _{E-UCCH} | М | | INTEGER (112) | Number of slots that are required to carry TPC and TFCI (consecutively allocated slots beginning with the first). |

9.2.3.45a E-PUCH Information LCR

The *E-PUCH Information LCR* IE provides parameters to configure the E-PUCH physical channel for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type | Semantics | Criticality | Assigned |
|--------------------------|----------|-------|---|--|-------------|-------------|
| | | | and Reference | Description | | Criticality |
| Minimum code rate | М | | INTEGER (063) | Unit: - Range: 0.055 1 Step: 0.015 | - | |
| Maximum code rate | М | | INTEGER (063) | Unit: - Range: 0.055 1 Step: 0.015 | - | |
| HARQ Info for E-DCH | M | | ENUMERA TED (rv0, rvtable) | 'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in TS 25.212 [8] | - | |
| PRXdes_base | М | | INTEGER (-11250) | dBm. Reference Desired RX power level for E-PUCH. Reference to Pe-base in TS 25.224 [21] | - | |
| E-PUCH TPC Step Size | М | | TDD TPC UL Step Size 9.2.3.21a | | - | |
| E-AGCH TPC Step Size | М | | TDD TPC DL Step Size 9.2.3.21 | | - | |
| E-PUCH Power Control GAP | 0 | | INTEGER (1255) | Unit: Number of subframes. Reference to E-PUCH Power Control for 1.28Mcps TDD in TS 25.224 [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used. | YES | ignore |

9.2.3.46 E-TFCS Information TDD

Whereas the related E-DCH Transport Block sizes are standardised in 3GPP TS 25.321 [32] this IE gives details on the Reference Betas.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------------|----------|--|--------------------------|--|
| Reference Beta Information QPSK | | 1 <maxno ofRefbeta s></maxno | | |
| >Reference Code Rate | М | | INTEGER (010) | Unit: - Range: 01 Step: 0.1 |
| >Reference Beta | M | | INTEGER(-1516) | Unit: - Range: -15+16 Step: 1 dB |
| Reference Beta Information 16QAM | | 1 <maxno ofRefbeta s></maxno | | |
| >Reference Code Rate | М | | INTEGER (010) | Unit: - Range: 01 Step: 0.1 |
| >Reference Beta | M | | INTEGER(-1516) | Unit: - Range: -15+16 Step: 1 dB |

| Range Bound | Explanation |
|-----------------|---|
| maxnoofRefbetas | Maximum number of signalled reference betas |

9.2.3.47 E-DCH MAC-d Flows Information TDD

The E-DCH MAC-d Flows Information TDD IE is used for the establishment of E-DCH MAC-d flows for TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|--|--------------------------|--|
| E-DCH MAC-d Flow Specific Information | | 1 <maxno ofEDCHM ACdFlows ></maxno | | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | |
| >Allocation/Retention Priority | М | | 9.2.1.1A | |
| >TNL QoS | 0 | | 9.2.1.58A | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. |
| >Payload CRC Presence Indicator | М | | 9.2.1.49 | |
| >Maximum Number Of Retransmissions For E-DCH | М | | 9.2.1.81 | |
| >E-DCH HARQ Power Offset TDD | М | | 9.2.3.61 | |
| >E-DCH MAC-d Flow Multiplexing List | 0 | | 9.2.1.69 | |
| >E-DCH Grant TypeTDD | М | | 9.2.3.53 | |
| >E-DCH Logical Channel Information | М | | 9.2.1.71 | |
| >E-DCH MAC-d Flow Retransmission Timer | 0 | | 9.2.3.61a | Mandatory for LCR TDD. Not applicable for 3.84Mcps TDD and 7.68Mcps TDD. |

| Range Bound | Explanation |
|----------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.3.48 E-DCH Non-scheduled Grant Information TDD

The E-DCH Non-scheduled Grant Information TDD IE is used to specify the details of a non-scheduled grant for TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------------|----------|-------|--------------------------|-----------------------|
| Timeslot Resource Related Information | M | | 9.2.3.54 | |
| Power Resource Related Information | M | | 9.2.3.55 | |
| Repetition Period | М | | 9.2.3.16 | |
| Repetition Length | M | | 9.2.3.15 | |
| TDD E-PUCH Offset | M | | 9.2.3.56 | |
| TDD Channelisation Code | M | | 9.2.3.19 | |

9.2.3.48a E-DCH Non-scheduled Grant Information LCR TDD

Only for 1.28Mcps TDD. The *E-DCH Non-scheduled Grant Information LCR TDD* IE is used to specify the details of a non-scheduled grant for 1.28Mcps TDD.

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| IE/Group Name | Presence | Range | IE Type and | Semantics Description | Criticality | Assigned Criticality |
|------------------------------------|----------|-------|----------------------|--|-------------|----------------------|
| | | | Reference | | | |
| Timeslot Resource Related | М | | 9.2.3.54a | | _ | |
| Information LCR | N4 | | 0.0055 | | | |
| Power Resource Related | M | | 9.2.3.55 | | _ | |
| Information Repetition Period | M | | 0.0.0.16 | | | |
| | M | | 9.2.3.16 9.2.3.15 | | _ | |
| Repetition Length Subframe Number | M | | ENUMERA | Used to | _ | |
| Submanne Number | N. | | TED (0,1) | indicate from which subframe of the Radio Frame indicated by TDD E-PUCH Offset IE the physical resources are assigned to the E-DCH Nonscheduled Grant. | | |
| TDD E-PUCH Offset | M | | 9.2.3.56 | | _ | |
| TDD Channelisation Code | M | | 9.2.3.19 | | _ | |
| Ne-ucch | М | | INTEGER (18) | Number of E- UCCH and TPC instances within an E-DCH TTI. Details are described in TS 25.221 [19]. | - | |
| E-HICH Information | | 1 | | | | |
| >E-HICH ID TDD | М | | 9.2.3.51a | If the Extended E-HICH ID TDD IE is included in the E-HICH Information IE, the E-HICH ID TDD IE shall be ignored. | - | |
| >Signature Sequence Group Index | М | | INTEGER (019) | | _ | |
| >Extended E-HICH ID TDD | 0 | | 9.2.3.51b | Applicable to 1.28Mcps TDD only, the Extended E- HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31. | YES | ignore |

9.2.3.49 E-DCH TDD Information

The E-DCH TDD Information specifies the details of the maximum bit rate and processing overload level.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|-----------------------|
| E-DCH TDD Maximum Bitrate | 0 | | 9.2.3.57 | |
| E-DCH Processing Overload Level | 0 | | 9.2.1.79 | |
| E-DCH Power Offset for Scheduling Info | 0 | | 9.2.1.85 | |

9.2.3.49a E-DCH TDD Information LCR

Only for 1.28Mcps TDD. The *E-DCH TDD Information LCR* IE specifies the details of the UE physical layer category, Node B processing overload level and power offset, Maximum Number of Retransmission and E-DCH Retransmission timer for scheduling info. The *E-AGCH Inactivity Monitor Threshold* IE is used for E-AGCH channel monitoring control for scheduled transmission.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|--|--|-------------|----------------------|
| E-DCH Physical Layer Category LCR | 0 | | 9.2.3.67 | If the Extended E-DCH Physical Layer Category LCR IE is included in the E-DCH TDD Information LCR IE, the E-DCH Physical Layer Category LCR IE shall be ignored. | - | , |
| E-DCH Processing Overload Level | 0 | | 9.2.1.79 | | _ | |
| E-DCH Power Offset for Scheduling Info | 0 | | 9.2.1.85 | | _ | |
| Extended E-DCH Physical Layer Category LCR | 0 | | 9.2.3.67A | The Extended E-DCH Physical Layer Category LCR IE shall be used if the E-DCH Physical Layer Category has a value larger than 5. | YES | reject |
| Maximum Number of Retransmission for Scheduling Info LCR | 0 | | Maximum Number of Retransmissi ons for E- DCH 9.2.1.81 | | YES | ignore |
| E-DCH Retransmission timer for Scheduling Info LCR | 0 | | E-DCH MAC- d Flow Retransmissi on Timer 9.2.3.61a | | YES | ignore |
| E-AGCH Inactivity Monitor Threshold | 0 | | Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, spare5,, infinity) | Units of subframes. | YES | ignore |

9.2.3.50 E-DCH TDD Information Response

The *E-DCH TDD Information Response* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

| IE/Group Name | Presence | Range | IE Type and | Semantics | Criticality | Assigned |
|--------------------------|----------|--|-------------|----------------------|-------------|-------------|
| | | | Reference | Description | | Criticality |
| E-DCH TDD MAC-d Flow | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Specific Information | | ofEDCHM | | | | |
| Response | | <i>ACdFlows</i> | | | | |
| | | > | | | | |
| >E-DCH MAC-d Flow ID | M | | 9.2.1.74 | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | | _ | |
| E-AGCH Specific | | 0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<> | | | _ | |
| Information Response | | OfEAGCH | | | | |
| TDD | | codes> | | | | |
| >E-AGCH ID TDD | M | | 9.2.3.51 | | _ | |
| E-RNTI | M | | 9.2.1.75 | | _ | |
| Scheduled E-HICH | | 0 <maxno< td=""><td></td><td>1.28Mcps TDD</td><td>_</td><td></td></maxno<> | | 1.28Mcps TDD | _ | |
| Specific Information | | OfEHICHc | | only | | |
| Response 1.28Mcps TDD | | odes> | | | | |
| >EI | M | | INTEGER | E-HICH | _ | |
| | | | (03) | indication which | | |
| | | | | is used to | | |
| | | | | indicate UE on | | |
| | | | | which E-HICH | | |
| | | | | the feedback | | |
| | | | | info is carried. | | |
| >E-HICH ID TDD | M | | 9.2.3.51a | If the Extended | _ | |
| | | | | E-HICH ID TDD | | |
| | | | | IE is included in | | |
| | | | | the <i>E-HICH</i> | | |
| | | | | Information IE, | | |
| | | | | the <i>E-HICH ID</i> | | |
| | | | | TDD IE shall be | | |
| | | | | ignored | | |
| >Extended E-HICH ID | 0 | | 9.2.3.51b | Applicable to | YES | ignore |
| TDD | | | | 1.28Mcps TDD | | |
| | | | | only, the | | |
| | | | | Extended E- | | |
| | | | | HICH ID TDD | | |
| | | | | IE shall be used | | |
| | | | | if the E-HICH | | |
| | | | | identity has a | | |
| | | | | value larger | | |
| | | | | than 31. | | |

| Range bound | Explanation |
|----------------------|--|
| maxnoofEDCHMACdFlows | Maximum number of MAC-d flows |
| maxnoofEAGCHcodes | Maximum number of E-AGCHs assigned to one UE |
| maxNoOfEHICHcodes | Maximum number of E-HICHs assigned to one UE |

9.2.3.51 E-AGCH ID TDD

The *E-AGCH ID* identifies unambiguously an E-AGCH inside a cell for TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| E-AGCH ID | | | INTEGER (031,,32255) | |

9.2.3.51a E-HICH ID TDD

The *E-HICH ID TDD* IE identifies unambiguously an E-HICH inside a cell for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| E-HICH ID TDD | | | INTEGER (031) | |

9.2.3.51b Extended E-HICH ID TDD

The Extended E-HICH ID TDD IE identifies unambiguously an E-HICH inside a cell for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Extended E-HICH ID TDD | | | INTEGER (32255) | |

9.2.3.52 E-DCH TDD Information to Modify

The *E-DCH TDD Information to Modify* IE is used for the modification of an E-DCH.

| IE/Group Name | Presen | Range | IE Type and | Semantics | Criticality | Assigned |
|---|--------|--|---|--|-------------|-------------|
| | ce | | Reference | Description | | Criticality |
| E-DCH MAC-d Flow Specific Information | | 0 <maxno ofEDCHM ACdFlows ></maxno | | | _ | |
| >E-DCH MAC-d Flow ID | М | | 9.2.1.74 | | _ | |
| >Allocation/Retention Priority | 0 | | 9.2.1.1A | | _ | |
| >Transport Bearer Request Indicator | М | | 9.2.1.62A | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | _ | |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | _ | |
| >TNL QoS | 0 | | 9.2.1.58A | | _ | |
| >Maximum Number Of Retransmissions for E-DCH | 0 | | 9.2.1.81 | | _ | |
| >E-DCH HARQ Power Offset TDD | 0 | | 9.2.3.61 | | _ | |
| >E-DCH MAC-d Flow Multiplexing List | 0 | | 9.2.1.69 | | _ | |
| >E-DCH Grant Type | 0 | | 9.2.3.53 | | _ | |
| >E-DCH Logical Channel To Add | 0 | | E-DCH Logical Channel Information 9.2.1.71 | | _ | |
| >E-DCH Logical Channel To Modify | 0 | | 9.2.1.72 | | _ | |
| >E-DCH Logical Channel To Delete | | 0 <maxno oflogicalch annels></maxno | | | _ | |
| >>Logical Channel ID | M | | 9.2.1.80 | | _ | |
| >E-DCH MAC-d Flow Retransmission Timer | 0 | | 9.2.3.61a | LCR TDD only. | _ | |
| MAC-e Reset Indicator | 0 | | 9.2.1.83 | | _ | |
| E-DCH MAC-d PDU Size Format | 0 | | 9.2.1.74B | | YES | reject |

| Range Bound | Explanation |
|------------------------|-------------------------------------|
| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |
| maxnooflogicalchannels | Maximum number of logical channels |

9.2.3.53 E-DCH Grant Type TDD

The E-DCH Grant Type identifies whether a MAC-d flow is scheduled or non-scheduled.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------|----------|-------|--------------------------|-----------------------|
| E-DCH Grant Type | | | ENUMERATED | |
| | | | (Scheduled, Non- | |
| | | | scheduled) | |

9.2.3.54 Timeslot Resource Related Information

The *Timeslot Resource Related Information* is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

| IE/Group | Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------|------------|----------|-------|--------------------------|-----------------------|
| Timeslot Resource | ce Related | | | BIT STRING (13) | |

9.2.3.54a Timeslot Resource Related Information LCR

Only for 1.28Mcps TDD. The *Timeslot Resource Related Information LCR* IE is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|-----------------------|
| Timeslot Resource Related Information LCR | | | BIT STRING (5) | |

9.2.3.55 Power Resource Related Information

The *Power Resource Related Information* specifies the maximum allowed E-PUCH power resource (dB relative to P_{e-base}) that the UE may use for non-scheduled transmissions.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--------------------------|--|
| Power Resource Related Information | | | INTEGER (132) | The Value indicates 0-31 PRRI index for mapping of Absolute Grant Value in TS 25.222 [34]. |

9.2.3.56 E-PUCH Offset

The E-PUCH Offset represents the CFN offset at which a non-scheduled E-DCH grant begins.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| E-PUCH Offset | | | INTEGER (0255) | |

9.2.3.57 E-DCH TDD Maximum Bitrate

The E-DCH TDD Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH in TDD mode.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|---|
| E-DCH TDD Maximum Bitrate | | | INTEGER (09201,) | Bitrate on transport block level. Unit is kbits per second. |

9.2.3.58 LTGI Presence

The LTGI Presence indicates to the Node B whether it shall use the Long Term Grant Indicator within E-DCH grants issued in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------|-------------------------------|
| LTGI Indicator | | | BOOLEAN | True = LTGI shall be included |

9.2.3.59 E-HICH Time Offset

The E-HICH Time Offset (aka n_{E-HICH} TS 25.221 [19]) is determined by the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------|----------|-------|--------------------------|-----------------------|
| E-HICH Time Offset | | | INTEGER (444) | |

9.2.3.59a E-HICH Time Offset LCR

Only for 1.28Mcps TDD. The E-HICH Time Offset LCR IE(aka n_{E-HICH} TS 25.221 [19]) is determined by the Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| E-HICH Time Offset LCR | | | INTEGER (415) | |

9.2.3.60 E-DCH TDD Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the number of E-AGCH.

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Physical Shared Channel Reconfiguration.

When one are more radio links have been configured to use E-DCH (via Radio Link Setup, Radio Link Addition or radio link reconfiguration procedures) the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure that removes the last radio link configured for E-DCH.

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---------------|----------|-------|------------------|--|
| | | | Reference | |
| UL Cost | M | | INTEGER (065535) | Cost per timeslot of the E-DCH. If not present, zero cost shall be applied. |
| DL Cost | 0 | | INTEGER (065535) | Cost per E-AGCH or E-HICH configured. If not present, zero cost shall be applied |

9.2.3.61 E-DCH HARQ Power Offset TDD

The *E-DCH HARQ Power Offset TDD* is the power offset measured in dB.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|--------------------------|-----------------------|
| E-DCH HARQ Power Offset TDD | | | INTEGER (06) | |

9.2.3.61a E-DCH MAC-d Flow Retransmission Timer

Only for 1.28Mcps TDD. The *E-DCH MAC-d Flow Retransmission Timer* IE is used in the E-DCH retransmission control as defined in 3GPP TS 25.321 [32].

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------|----------|-------|---------------------|---------------------------------|
| | | | Reference | |
| E-DCH MAC-d Flow | | | ENUMERATED (10, | Unit: ms |
| Retransmission Timer | | | 15, 20, 25, 30, 35, | Node B may use this value to |
| | | | 40, 45, 50, 55, 60, | stop the re-transmission of the |
| | | | 65, 70, 75, 80, 85, | corresponding MAC-e PDU. |
| | | | 90, 95, 100, 110, | |
| | | | 120, 140, 160, 200, | |
| | | | 240, 280, 320, 400, | |
| | | | 480, 560,) | |

9.2.3.62 SNPL Reporting Type

The *SNPL Reporting Type* indicates to the Node B whether the UEs in a cell shall use the type 1 or type 2 Serving and Neighbour Cell Pathloss metric TS 25.224 [21].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|---------------------------|-----------------------|
| SNPL Reporting Type | | | ENUMERATED (type1, type2) | |

9.2.3.63 Maximum Generated Received Total Wide Band Power in Other Cells

The Maximum Generated Received Total Wide Band Power in Other Cells indicates the maximum aggregate UL interference that may be generated from scheduled transmissions into other (non-serving) cells.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|---|----------|-------|----------------|--|
| | | | Reference | |
| Maximum Generated Received Total Wide Band Power in Other Cells | | | INTEGER (0621) | The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in TS 25.123 [23]. |

9.2.3.64 E-DCH Non-scheduled Grant Information 7.68Mcps TDD

The *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is used to specify the details of a non-scheduled grant for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------------|----------|-------|--------------------------|-----------------------|
| Timeslot Resource Related Information | M | | 9.2.3.54 | |
| Power Resource Related Information | М | | 9.2.3.55 | |
| Repetition Period | M | | 9.2.3.16 | |
| Repetition Length | M | | 9.2.3.15 | |
| TDD E-PUCH Offset | M | | 9.2.3.56 | |
| TDD Channelisation Code 7.68Mcps | M | | 9.2.3.34 | |

9.2.3.65 E-DCH TDD Information 7.68Mcps

The *E-DCH TDD Information 7.68Mcps* specifies the details of the maximum bit rate and processing overload level for 7.68Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|-----------------------|
| E-DCH TDD Maximum Bitrate 7.68Mcps | 0 | | 9.2.3.66 | |
| E-DCH Processing Overload Level | 0 | | 9.2.1.79 | |
| E-DCH Power Offset for Scheduling Info | 0 | | 9.2.1.85 | |

9.2.3.66 E-DCH TDD Maximum Bitrate 7.68Mcps

The *E-DCH TDD Maximum Bitrate 7.68Mcps* parameter indicates the Maximum Bitrate for an E-DCH in 7.68Mcps TDD mode.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------------|----------|-------|--------------------------|---|
| E-DCH TDD Maximum Bitrate 7.68Mcps | | | INTEGER (017713,) | Bitrate on transport block level. Unit is kbits per second. |

9.2.3.67 E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The *E-DCH Physical Layer Category LCR* IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------------|----------|-------|--------------------------|------------------------------|
| E-DCH Physical Layer Category LCR | | | INTEGER(15) | As defined in TS 25.306 [33] |

9.2.3.67A Extended E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The *Extended E-DCH Physical Layer Category LCR* IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|------------------------------|
| Extended E-DCH Physical Layer Category LCR | | | INTEGER(6,) | As defined in TS 25.306 [33] |

9.2.3.68 E-HICH Type

The *E-HICH Type* IE identifies whether a E-HICH is scheduled or non-scheduled inside a cell for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|-----------------------|
| E-HICH Type | | | ENUMERATED (| |
| | | | Scheduled, Non- | |
| | | | scheduled) | |

9.2.3.69 Maximum Target Received Total Wide Band Power LCR

The *Maximum Target Received Total Wide Band Power LCR* indicates the maximum target UL interference for a certain cell or frequency under CRNC, including received wide band power from all sources.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--|----------|-------|----------------|--|
| | | | Reference | |
| Maximum Target Received Total Wide Band Power LCR | | | INTEGER (0621) | The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in TS 25.123 [23]. |

9.2.3.70 MBSFN Only Mode Indicator

The MBSFN only mode indicator indicates from CRNC to the Node B whether the cell is setup for MBSFN only mode for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|----------------------------------|-----------------------|
| MBSFN Only Mode Indicator | | | ENUMERATED (MBSFN Only Mode) | |

9.2.3.71 MBSFN Only Mode Capability

This parameter defines the MBSFN only mode capability for a local cell for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------------------|----------|-------|--|-----------------------|
| MBSFN Only Mode Capability | | | ENUMERATED (MBSFN Only Mode capable, MBSFN Only Mode non capable) | |

9.2.3.72 HS-DSCH Common System Information LCR

The *HS-DSCH Common System Information LCR* IE provides information for HS-DSCH configured for UE in Cell_FACH, Cell_PCH and URA_PCH and Information related to BCCH modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|--|--|--|
| HS-DSCH Common Information LCR | | 01 | | |
| >CCCH Priority Queue ID | M | | Priority Queue ID 9.2.1.49C | Applicable for all carriers when using multiple frequencies. |
| >SRB#1 Priority Queue ID | М | | Priority Queue ID 9.2.1.49C | Applicable for all carriers when using multiple frequencies. |
| >Associated Common MAC Flow LCR | М | | Common MAC Flow ID LCR 9.2.3.76 | The Common MAC Flow ID LCR shall be one of the flow IDs defined in the Common MAC Flow Specific Information of this IE or shall only refer to a Common MAC flow already existing in the old configuration. |
| >FACH Measurement Occasion Cycle Length Coefficient | 0 | | 9.2.1.111 | |
| >BCCH Specific HS-DSCH RNTI Information LCR | 0 | | 9.2.3.89 | |
| Common MAC Flow Specific Information LCR | | 0 <maxno ofCommon MACFlows LCR></maxno | | |
| >Common MAC Flow ID LCR | М | | 9.2.3.76 | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. |
| >Common MAC Flow Priority Queue Information LCR | | 0 <maxno ofCommon MACQueu es></maxno | | |
| >>Priority Queue Information for Enhanced FACH | М | | Priority Queue Information for Enhanced FACH/PCH 9.2.1.117 | |
| >Transport Bearer Request Indicator | 0 | | 9.2.1.62A | Shouldn"t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure |
| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable for 1.28Mcps TDD when using multiple frequencies. |
| Common H-RNTI Information | | 0 <maxco mmonHR NTI></maxco | | |
| >Common H-RNTI | М | | HS-DSCH-RNTI 9.2.1.31J | |
| Sync Information | | 01 | | |
| >T-sync | M | | ENUMERATED (40, 80, 120, 160, 200, 300, 400, 500,) | Units of MS. |
| >T-protect | М | | ENUMERATED (40, 60, 80, 100, 120, 200, 400,) | Units of MS. |

| >N-protect | М | INTEGER (07) | |
|---------------------------|---|--------------|--|
| TDD ACK NACK Power Offset | 0 | 9.2.3.18F | |
| | | 9.2.1.67A | |
| HS-SICH SIR Target | 0 | UL SIR | |
| _ | | 9.2.1.67A | |
| HS-SICH TPC step size | 0 | 9.2.3.21a | |

| Range bound | Explanation |
|---------------------------|---|
| maxnoofCommonMACFlowsLCR | Maximum number of Common MAC Flows for 1.28Mcps TDD |
| maxnoofCommonMACQueuesLCR | Maximum number of Priority Queues for Common MAC Flow for |
| | 1.28Mcps TDD |
| maxCommonHRNTI | Maximum number of Common H-RNTI |

9.2.3.73 HS-DSCH Paging System Information LCR

The *HS-DSCH Paging System Information LCR* IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|---|--|--|
| Paging MAC Flow Specific Information LCR | | 0 <maxno ofPagingM ACFlow></maxno | | |
| >Paging MAC Flow ID | M | | 9.2.1.113 | |
| >HSDPA Associated PICH Information LCR | 0 | | 9.2.3.77 | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. |
| >ToAWS | 0 | | 9.2.1.61 | |
| >ToAWE | 0 | | 9.2.1.60 | |
| >Paging MAC Flow Priority Queue Information LCR | | 0 <maxno ofPagingM ACQueues ></maxno | | |
| >>Priority Queue Information for Enhanced PCH | M | | Priority Queue Information for Enhanced FACH/PCH 9.2.1.117 | |
| >Transport Bearer Request Indicator | 0 | | 9.2.1.62A | Shouldn"t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure |
| HS-SCCH Power | 0 | | DL Power 9.2.1.21 | |
| HS-PDSCH Power | 0 | | DL Power 9.2.1.21 | |
| DTCH/DCCH Reception window size | 0 | | INTEGER (116) | Number of subframes for UE to detect the HS-SCCH |
| N _{PCH} | 0 | | INTEGER (18) | |
| Paging Sub-Channel Size | 0 | | INTEGER (13) | number of frames for a Paging sub-channel |
| Transport Block Size List | | 0 <maxno ofHS- DSCHTBS sE-PCH></maxno | | |
| >Transport Block Size Index for Enhanced PCH | M | | INTEGER (132) | Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in 3GPP TS 25.321 [32] |

| Range bound | Explanation |
|-------------------------|--|
| maxnoofPagingMACFlow | Maximum number of Paging MAC Flows |
| maxnoofPagingMACQueues | Maximum number of Priority Queues for Paging MAC Flow |
| maxnoofHS-DSCHTBSsE-PCH | Maximum number of HS-DSCH Transport Block Sizes used for |
| | Enhanced PCH operation associated HS-SCCH less |

9.2.3.74 HS-DSCH Common System Information Response LCR

The *HS-DSCH Common System Information Response LCR* IE provides information for HS-DSCH configured for UE not in Cell_DCH that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|-----------------------|---|-------------|----------------------|
| HS-SCCH Specific Information Response LCR | | 0 <maxno OfHSSCC HsLCR></maxno | | | - | |
| >HS SCCH ID LCR | M | | 9.2.3.88 | The HS-SCCH ID of the HS-SCCH used for the BCCH specific H-RNTI should be the minimum on each frequency. | - | |
| HARQ Memory Partitioning | 0 | | 9.2.1.102 | | - | |
| Common MAC Flow Specific Information Response LCR | | 0 <maxno ofCommon MACFlows LCR></maxno | | | - | |
| >Common MAC Flow ID LCR | M | | 9.2.3.76 | | - | |
| >Binding ID | 0 | | 9.2.1.4 | | - | |
| >Transport Layer Address | 0 | | 9.2.1.63 | | - | |
| >HS-DSCH Initial Capacity Allocation | 0 | | 9.2.1.31Ha | | - | |
| UARFCN | 0 | | 9.2.1.65 | Applicable to 1.28Mcps TDD when using multiple frequencies. This is the UARFCN for the first Frequency repetition of HARQ Memory Partitioning | YES | reject |
| HARQ Memory Partitioning Per UARFCN | | 0 <maxfr equencyin Cell-1></maxfr | | Corresponds to Nt (TS 25.105 [15]). Applicable for 1.28Mcps TDD when using multiple frequencies. | GLOBAL | reject |
| >HARQ Memory Partitioning | М | | 9.2.1.102 | | - | |
| >UARFCN | M | | 9.2.1.65 | | - | |

| Range Bound | Explanation |
|--------------------------|--|
| maxnoofCommonMACFlowsLCR | Maximum number of Common MAC Flows for 1.28Mcps TDD |
| maxNoOfHSSCCHsLCR | Maximum number of HS-SCCH codes for 1.28Mcps TDD |
| maxFrequencyinCell-1 | Maximum number of frequencies that can be used in the cell minus 1 |

9.2.3.75 HS-DSCH Paging System Information Response LCR

The *HS-DSCH Paging System Information Response LCR* IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|---|--------------------------|-----------------------|
| Paging MAC Flow Specific Information Response LCR | | 0 <maxno ofPagingM ACFlow></maxno | Kelelelice | |
| >Paging MAC Flow ID | M | | 9.2.1.113 | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Layer Address | 0 | | 9.2.1.63 | |
| >HS-PDSCH DL Timeslot and Code Information LCR | | 0 <maxno ofDLtsLCR ></maxno | | |
| >>Time Slot LCR | М | | 9.2.3.24A | |

| >>Midamble Shift LCR | М | | 9.2.3.7A | |
|----------------------------|---|--|----------|--|
| >>Codes LCR | | 1 <maxno ofHSPDS CHs></maxno | | |
| >>>TDD Channelisation Code | М | | 9.2.3.19 | |

| Range bound | Explanation |
|----------------------|---|
| maxnoofPagingMACFlow | Maximum number of Paging MAC Flows |
| maxnoofDLtsLCR | Maximum number of Downlink time slots in a cell for 1.28Mcps TDD |
| maxnoofHSPDSCHs | Maximum number of HS-PDSCHs in one time slot of a Cell for 1.28Mcps |
| | TDD |

9.2.3.76 Common MAC Flow ID LCR

The Common MAC Flow ID LCR IE is the unique identifier for one Common MAC flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|-------|--------------------------|-----------------------|
| Common MAC Flow ID LCR | | | INTEGER (0255) | |

9.2.3.77 HSDPA Associated PICH Information LCR

The HSDPA Associated PICH Information LCR IE provides information for PICH used for Enhanced PCH operation.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------|----------|-------|--------------------------|-----------------------|
| CHOICE HSDPA PICH | | | | |
| >Shared with PCH | | | | |
| >>Common Physical | M | | 9.2.1.13 | |
| Channel ID | | | | |
| >Not shared with PCH LCR | | | | |
| >>Common Physical | M | | 9.2.1.13 | |
| Channel ID | | | | |
| >> TDD Channelisation | M | | 9.2.3.19a | |
| Code LCR | | | | |
| >> Time Slot LCR | M | | 9.2.3.24A | |
| >>Midamble Shift LCR | М | | 9.2.3.7A | |
| Offset | | | | |
| >>TDD Physical Channel | M | | 9.2.3.20 | |
| offset | | | | |
| >>Repetition Period | M | | 9.2.3.16 | |
| >>Repetition Length | M | | 9.2.3.15 | |
| >>Paging Indicator Length | M | | 9.2.3.8 | |
| >>PICH Power | М | | 9.2.1.49A | |
| >> Second TDD Code LCR | М | | TDD Channelisation | |
| Code LCR | | | Code LCR 9.2.3.19a | |
| >>TSTD Indicator | 0 | | 9.2.1.64 | |

9.2.3.78 Common MAC Flows To Delete LCR

The Common MAC Flows To Delete LCR IE is used for the removal of Common MAC flows from a Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------------|----------|--|--------------------------|-----------------------|
| Common MAC Flows To Delete LCR | | 1 <maxno ofCommon MACFlows LCR></maxno | | |
| >Common MAC Flow ID LCR | M | | 9.2.3.76 | |

| Range Bound | Explanation |
|--------------------------|---|
| maxnoofCommonMACFlowsLCR | Maximum number of Common MAC Flows for 1.28Mcps TDD |

9.2.3.79 Common E-DCH System Information LCR

The *Common E-DCH System Information LCR* IE provides information for E-DCH configured for UE in Cell_FACH and Idle state.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|--|---|---|-------------|----------------------|
| UL Common MAC Flow Specific Information LCR | | 0 <maxno ofCommon MACFlows LCR></maxno | | | - | |
| >UL Common MAC Flow ID | M | | Common MAC Flow ID LCR 9.2.3.76 | | _ | |
| >Transport Bearer Request Indicator | 0 | | 9.2.1.62A | | _ | |
| >Binding ID | 0 | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | - | |
| >Transport Layer Address | 0 | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | - | |
| >TNL QoS | 0 | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | - | |
| >Payload CRC Presence Indicator | 0 | | 9.2.1.49 | | - | |
| >Common E-DCH MAC- d Flow Specific Information LCR | 0 | | 9.2.3.81 | | - | |
| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable for 1.28Mcps TDD when using multiple frequencies. | - | |
| Common E-PUCH Information LCR | 0 | | 9.2.3.83 | | _ | |
| E-TFCS Information TDD | 0 | | 9.2.3.46 | | _ | |
| Maximum Number of Retransmission for Scheduling Info LCR | 0 | | Maximum Number of Retransmissi ons for E- DCH 9.2.1.81 | | - | |
| E-DCH Retransmission timer for Scheduling Info LCR | 0 | | E-DCH MAC- d Flow Retransmissi on Timer 9.2.3.61a | | _ | |
| UL Synchronisation Parameters LCR | | 01 | | | YES | reject |
| >Uplink Synchronisation Step Size | М | | 9.2.3.26H | | _ | |
| >Uplink Synchronisation Frequency | М | | 9.2.3.26G | | _ | |
| Physical Channel ID for Common E-RNTI Requested Indicator | 0 | | Enumerated(requested) | | YES | ignore |

| Range bound | Explanation |
|--------------------------|------------------------------------|
| maxnoofCommonMACFlowsLCR | Maximum number of Common MAC Flows |

9.2.3.80 Common E-DCH System Information Response LCR

The *Common E-DCH System Information Response LCR* IE provides information for E-DCH configured for UE in Cell_FACH and Idle state that have been established or modified.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--|----------|--|---------------------------------------|--|
| UL Common MAC Flow Specific Information Response LCR | | 0 <maxno ofEDCHM ACFlowsL CR></maxno | | See Note 1 below |
| >UL Common MAC Flow ID | M | | Common MAC Flow ID LCR 9.2.3.76 | |
| >Binding ID | 0 | | 9.2.1.4 | |
| >Transport Layer Address | 0 | | 9.2.1.63 | |
| E-AGCH Specific Information Response TDD | | 0 <maxno ofEAGCHs LCR></maxno | | |
| >E-AGCH ID TDD | M | | 9.2.3.51 | |
| E-HICH Specific Information Response 1.28Mcps TDD | | 0 <maxno OfEHICHs LCR></maxno | | 1.28Mcps TDD only |
| >EI | M | | INTEGER (03) | E-HICH indication which is used to indicate UE on which E-HICH the feedback info is carried. |
| >E-HICH ID TDD LCR | M | | 9.2.3.51a | |
| CCCH E-RNTI Information LCR | 0 | | 9.2.3.84 | |

Note1: This information element is a simplified representation of the ASN.1. Repetitions 1 to maxnoofEDCHMACFlows and Repetition maxnoofEDCHMACFlows+1 to maxnoofEDCHMACFlowsLCR are represented by separate ASN.1 structures with different criticality.

| Range bound | Explanation |
|--------------------------|-------------------------------------|
| maxnoofCommonMACFlowsLCR | Maximum number of Common MAC Flows |
| maxNoofEAGCHsLCR | Maximum number of E-AGCHs in a Cell |
| maxNoOfEHICHsLCR | Maximum number of E-HICHs in a Cell |

9.2.3.81 Common E-DCH MAC-d Flow Specific Information LCR

The *Common E-DCH MAC-d Flow Specific Information LCR* IE is used for the establishment or modity Common E-DCH MAC-d flows.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assinged Criticality |
|--|----------|---|---------------------------------------|--------------------------|-------------|----------------------|
| Common E-DCH MAC-d Flow Specific Information LCR | | 1 <maxno ofEDCHM ACdFlows LCR></maxno | | | _ | |
| >Common E-DCH MAC-d Flow ID | М | | 9.2.3.87 | | _ | |
| >Maximum Number Of Retransmissions For E-DCH | 0 | | 9.2.1.81 | | _ | |
| >E-DCH MAC-d Flow Multiplexing List | 0 | | 9.2.1.69 | | - | |
| >Common E-DCH Logical Channel information | 0 | 1 <maxno oflogicalch annels></maxno | | | 1 | |
| >>Logical Channel ID | M | | 9.2.1.80 | | _ | |
| >>Maximum MAC-c PDU Size Extended | 0 | | MAC PDU Size Extended 9.2.1.38C | | _ | |

| >>Scheduling Priority | 0 | 9.2.1.53H | _ | ignore |
|---|---|-----------|---|--------|
| Indicator | | | | |
| >E-DCH HARQ Power Offset TDD | 0 | 9.2.3.61 | _ | |
| >E-DCH MAC-d Flow Retransmission Timer | 0 | 9.2.3.61a | _ | |

| Range bound | Explanation |
|-------------------------|--|
| maxnoofEDCHMACdFlowsLCR | Maximum number of E-DCH MAC-d Flows for 1.28Mcps TDD |
| maxnooflogicalchannels | Maximum number of logical channels |

9.2.3.82 Enhanced UE DRX Information LCR

The *Enhanced UE DRX Information LCR* IE provides information for configuring the UE in Cell_FACH state to discontinuously reception for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------------|----------|-------|----------------------------------|---|
| T321 | М | | ENUMERATED (100, 200, 400, 800,) | Determines the time the UE waits until initiating DRX operation, in ms. |
| HS-DSCH DRX cycle _{FACH} | М | | ENUMERATED (4, 8, 16, 32,) | Determines the length of the DRX Cycle during DRX operation, in frames |
| HS-DSCH Rx burst _{FACH} | М | | ENUMERATED (1, 2, 4, 8, 16,) | Determines the period within the DRX Cycle that the UE continuously receives HS-DSCH, in frames |

9.2.3.83 Common E-PUCH Information LCR

The *Common E-PUCH Information LCR* IE provides parameters to configure the E-PUCH physical channel for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------|----------|--|--------------------------------------|--|
| Minimum code rate | М | | INTEGER (063) | Unit: - Range: 0.0551 Step: 0.015 |
| Maximum code rate | М | | INTEGER (063) | Unit: - Range: 0.0551 Step: 0.015 |
| HARQ Info for E-DCH | М | | ENUMERATED (rv0, rvtable) | 'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in TS 25.212 [8] |
| PRXdes_base per UARFCN | | 0 <maxfre quencyinC ell></maxfre | | |
| >PRXdes_base | M | | INTEGER (-11250) | dBm. Reference Desired RX power level for E-PUCH. Reference to Pe-base in TS 25.224 [21] |
| >UARFCN | 0 | | 9.2.1.65 | Corresponds to Nt (TS 25.105 [15]). Applicable for 1.28Mcps TDD when using multiple frequencies. |
| E-PUCH TPC Step Size | 0 | | TDD TPC UL Step Size 9.2.3.21a | |
| E-AGCH TPC Step Size | 0 | | TDD TPC DL Step Size 9.2.3.21 | |
| E-PUCH Power Control GAP | 0 | | INTEGER (1255) | Unit: Number of subframes. Reference to E-PUCH Power Control for 1.28Mcps TDD in TS 25.224 [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used. |

| Range bound | Explanation |
|--------------------|---|
| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

9.2.3.84 Common E-RNTI Information LCR

The $Common\ E$ - $RNTI\ Information\ LCR\ IE\ provides\ parameters\ to\ configure\ the\ common\ E$ - $RNTI\ used\ in\ enhanced\ CELL_FACH\ and\ Idle\ mode.$

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|-----------------------------------|----------|--|--|----------------------------------|-------------|----------------------|
| Common E-RNTI Information LCR | | 1 <maxno ofERUCC HsLCR></maxno | | | _ | |
| >Starting E-RNTI | M | | 9.2.1.75 | | _ | |
| >Number of group | M | | INTEGER (132) | | _ | |
| >Number of E-RNTI per group | M | | INTEGER (17) | Values 3 to 7 shall not be used. | _ | |
| >Associated Phsical Channel ID | 0 | | Common Physical Channel ID 9.2.1.13 | | YES | reject |

| Range bound | Explanation |
|-------------------|---|
| maxnoofERUCCHsLCR | Maximum number of E-RUCCH that can be defined in a Cell |

9.2.3.85 Paging MAC Flows To Delete LCR

The Paging MAC Flows To Delete LCR IE is used for the removal of Paging MAC flows from a Node B.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--------------------------------|----------|---|--------------------------|-----------------------|
| Paging MAC Flows To Delete LCR | | 1 <maxno ofPagingM ACFlow></maxno | | |
| >Paging MAC Flow ID | M | | 9.2.1.113 | |

| Range Bound | Explanation |
|----------------------|------------------------------------|
| maxnoofPagingMACFlow | Maximum number of Paging MAC Flows |

9.2.3.86 Common E-DCH MAC-d Flows To Delete LCR

The Common E-DCH MAC-d Flows To Delete LCR IE is used for the removal of E-DCH MAC-d flows.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------------|----------|--|--------------------------|-----------------------|
| Common E-DCH MAC-d Flows To Delete | | 1 <maxno ofCommon EDCHMA CdFlowsL CR></maxno | | |
| >Common E-DCH MAC-d Flow ID LCR | M | | 9.2.3.87 | |

| Range Bound | Explanation |
|-------------------------------|--|
| maxnoofCommonEDCHMACdFlowsLCR | Maximum number of common E-DCH MAC-d flows |

9.2.3.87 Common E-DCH MAC-d Flow ID LCR

The Common E-DCH MAC-d Flow ID LCR IE is the unique identifier for one MAC-d flow on E-DCH.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Common E-DCH MAC-d Flow | | | INTEGER | |
| ID LCR | | | (0255) | |

9.2.3.88 HS-SCCH ID LCR

The HS-SCCH ID identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|----------------|----------|-------|--------------------------|-----------------------|
| HS SCCH ID LCR | | | INTEGER (0255) | |

9.2.3.89 BCCH Specific HS-DSCH RNTI Information LCR

The *BCCH Specific HS-DSCH RNTI Information* IE provides information for BCCH Transmission using HS-DSCH for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|-----------------------|-----------------------|
| BCCH Specific HS-DSCH | M | | HS-DSCH-RNTI | |
| RNTI HS-SCCH Power | M | | 9.2.1.31J DL Power | |
| HS-PDSCH Power | M | | 9.2.1.21 DL Power | |
| | | | 9.2.1.21 | |

9.2.3.90 MAC-es Maximum Bit Rate LCR

The MAC-es Maximum Bit Rate LCR IE indicates the maximum number of bits per second to be delivered over the air interface.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| MAC-es Maximum Bit Rate | | | INTEGER | Unit: bit/s |
| LCR | | | (0256,000,000 | |
| | | | ,) | |

9.2.3.91 Semi-Persistent scheduling Capability LCR

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|----------------------------|----------|-------|---------------------|-----------------------|
| | | | Reference | |
| Semi-Persistent scheduling | | | ENUMERATED | |
| Capability LCR | | | (Semi-Persistent | |
| | | | scheduling Capable, | |
| | | | Semi-Persistent | |
| | | | scheduling Non- | |
| | | | Capable) | |

9.2.3.92 Continuous Packet Connectivity DRX Capability LCR

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------------|----------|-------|-----------------------|-----------------------|
| Continuous Packet | | | ENUMERATED | |
| Connectivity DRX Capability | | | (Continuous Packet | |
| LCR | | | Connectivity DRX | |
| | | | Capable, Continuous | |
| | | | Packet Connectivity | |
| | | | DRX Non-Capable) | |

9.2.3.93 Continuous Packet Connectivity DRX Information LCR

The *Continuous Packet Connectivity DRX Information LCR* IE defines the parameters used for Continuous Packet Connectivity DRX operation for 1.28 Mcps TDD (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Semantics Reference Description | | Criticality | Assigned Criticality |
|---|----------|-------|--|--|-------------|-------------------------|
| Enabling Delay | М | | ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128) | Units of radio frames | - | |
| HS-SCCH DRX Information | | 1 | , | | - | |
| >UE DRX Cycle | М | | ENUMERATED(1,2,4,8,16,32,64,) | Units of subframes | - | |
| >Inactivity Threshold for UE DRX Cycle | 0 | | ENUMERATED(1,2,4,8,16,32,64,) | Units of subframes | - | |
| >UE DRX Offset | М | | INTEGER (063) | Units of subframes. Offset of the UE DRX cycles at the given TTI | - | |
| >Inactivity Threshold for UE DRX Cycle Ext | 0 | | ENUMERATED(128,256,512,) | Units of subframes | YES | ignore |
| E-AGCH DRX Information | | 01 | | | - | |
| CHOICE E-AGCH DRX information type | М | | | | - | |
| >Same as HS-SCCH | | | NULL | Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E-AGCH Inactivity Monitor Threshold is absent | - | |
| >E-AGCH DRX parameters | | | | | - | |
| >>E-AGCH DRX cycle | М | | Enumerated (1,2,4,8,16,32,64 | Units of subframes. | - | |
| >>E-AGCH Inactivity Monitor Threshold | 0 | | Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity,) | Units of subframes. | - | |
| >>E-AGCH DRX Offset | М | | Integer (0 63) | Units of subframes. Offset of the E- AGCH DRX cycles. | - | |
| Enabling Delay Ext | 0 | | Enumerated (infinity,) | | Yes | ignore |

9.2.3.94 Continuous Packet Connectivity DRX Information To Modify LCR

The Continuous Packet Connectivity DRX Information To Modify LCR IE is used for modification of Continuous Packet Connectivity DRX information in a Node B Communication Context. The Continuous Packet Connectivity DRX Information To Modify LCR IE shall include at least one of the following IE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|--|---|-------------|-------------------------|
| Enabling Delay | 0 | | ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128) | Units of radio frames | - | |
| CHOICE DRX Information To Modify | 0 | | | | - | |
| >Modify | | | | | - | |
| >>HS-SCCH DRX- Information | | 01 | | | - | |
| >>>UE DRX Cycle | М | | ENUMERATED (1,2,4,8,16,32,64 ,) | Units of subframes | - | |
| >>>Inactivity Threshold for UE DRX Cycle | 0 | | ENUMERATED (1,2,4,8,16,32,64 ,) | Units of subframes | - | |
| >>>UE DRX Offset | M | | INTEGER (063) | Units of subframes. Offset of the UE DRX cycles at the given TTI. | - | |
| >>>Inactivity Threshold for UE DRX Cycle Ext | 0 | | ENUMERATED(128,256,512,) | Units of subframes | YES | ignore |
| >>E-AGCH DRX Information | | 01 | | | - | |
| >>>CHOICE E-AGCH DRX Information type | М | | | | - | |
| >>>>Same as HS- SCCH | | | NULL | Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E-AGCH Inactivity Monitor Threshold is absent. | - | |
| >>>E-AGCH DRX parameters | | | | | - | |
| >>>>E-AGCH DRX cycle | М | | ENUMERATED (1,2,4,8,16,32,64 | Units of subframes | - | |
| >>>>E-AGCH Inactivity Monitor Threshold | 0 | | ENUMERATED (0,1,2,4,8,16,32, 64,128,256,512,i nfinity,) | Units of subframes | - | |
| >>>>E-AGCH DRX Offset | М | | INTEGER (063) | Units of subframes. Offset of the E- AGCH DRX cycles. | - | |
| >Deactivate | | | NULL | | - | |
| Enabling Delay Ext | 0 | | ENUMERATED (infinity,) | | YES | ignore |

9.2.3.95 Continuous Packet Connectivity DRX Information Response LCR

Node B uses the *Continuous Packet Connectivity DRX Information Response LCR* IE to inform the CRNC the parameters used for Continuous Packet Connectivity DRX operation for 1.28 Mcps TDD (see ref. TS 25.224 [21]). Continuous Packet Connectivity DRX related parameters shall be configured by the CRNC. For the parameters which can be accepted by Node B, the Node B shall not included the related IEs in the *Continuous Packet Connectivity DRX Information Response LCR* IE. For the parameters which can be not accepted by Node B, the Node B shall included the related IEs in the *Continuous Packet Connectivity DRX Information Response LCR* IE.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|---|----------|-------|---|--|-------------|----------------------|
| Enabling Delay | 0 | | ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128) | Units of radio frames | - | |
| HS-SCCH DRX Information | | 01 | 32, 04, 120) | | - | |
| >UE DRX Cycle | 0 | | ENUMERATED(1,2,4,8,16,32,64,) | Units of subframes | - | |
| >Inactivity Threshold for UE DRX Cycle | 0 | | ENUMERATED(1,2,4,8,16,32,64,) | Units of subframes | - | |
| >UE DRX Offset | 0 | | INTEGER (063) | Units of subframes. Offset of the UE DRX cycles at the given TTI | - | |
| >Inactivity Threshold for UE DRX Cycle Ext | 0 | | ENUMERATED(128,256,512,) | Units of subframes | YES | ignore |
| E-AGCH DRX Information | | 01 | | | - | |
| CHOICE E-AGCH DRX information type | М | | | | - | |
| >Same as HS-SCCH | | | NULL | Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E-AGCH Inactivity Monitor Threshold is absent | - | |
| >E-AGCH DRX parameters | | | | | - | |
| >>E-AGCH DRX cycle | 0 | | Enumerated (1,2,4,8,16,32,64 ,) | Units of subframes. | - | |
| >>E-AGCH Inactivity Monitor Threshold | 0 | | Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity,) | Units of subframes. | - | |
| >>E-AGCH DRX Offset | 0 | | Integer (0 63) | Units of subframes. Offset of the E-AGCH DRX cycles. | - | |
| Enabling Delay Ext | 0 | | Enumerated (infinity,) | This IE can only be used when the Enabling Delay Ext is included in the request message, otherwise, the IE shall not be used. | Yes | ignore |

9.2.3.96 HS-DSCH Semi-Persistent scheduling Information LCR

The *HS-DSCH Semi-Persistent scheduling Information LCR* IE defines the parameters used for HS-DSCH semi-Persistent scheduling for 1.28 Mcps TDD (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------------------------|----------|------------------------------------|---|--|
| Transport Block Size List | | 1< maxnoofT BSsMappi ng > | | |
| >Transport Block Size maping Index | M | | INTEGER (0 maxnoofTBSsMappi ng-1) | Corresponds to the <i>Transport-block size information</i> field carried on HS-SCCH (see ref |

| | | | | TS 25.222 [34]). |
|--|---|--|---|--|
| >Transport Block Size Index | М | | INTEGER (1 maxnoofHS- DSCHTBSsLCR) | Corresponds to the <i>TB index</i> in the related Transport Block Size table (see ref 3GPP TS 25.321 [32]). |
| Repetition Period list | | 1 <maxno ionperiod="" lcr="" ofrepetit=""></maxno> | | |
| >Repetition Period Index | M | | INTEGER (0 maxnoofRepetitionP eriodLCR-1) | Corresponds to the Resource repetition period index field carried on HS-SCCH (see ref TS 25.222 [34]). |
| >Repetition Period | M | | ENUMERATED (1, 2, 4, 8, 16, 32, 64,) | Units of subframes |
| >Repetition Length | 0 | | INTEGER (163) | Absence means Repetition Length equal to 1. |
| HS-DSCH Semi-Persistent Resource Reservation Indicator | 0 | | ENUMERATED(Res erve) | Reserve means the HS-DSCH Semi-Persistent Resource is required to be reserved and be informed via response message. |
| HS-DSCH Semi-Persistent scheduling operation Indicator | | 1 | | |
| >CHOICE configuration | | | | |
| >>Logical Channel level | | | BIT STRING (16) | Available when MAC-ehs is configured. Indicates the logical channels for which the HS-DSCH Semi-Persistent operation is intended to be uses. |
| >> Priority Queue level | | | BIT STRING (8) | Indicates the Priority Queues for which the HS-DSCH Semi-Persistent operation is intended to be used. |

| Range Bound | Explanation |
|----------------------------|--|
| maxnoofHS-DSCHTBSsLCR | Maximum number of HS-DSCH Transport Block Sizes |
| maxnoofRepetitionPeriodLCR | Maximum number of Repetition Period for 1.28Mcps TDD |
| maxnoofTBSsMapping | Maximum number of Transport Block Size mapping index on HS-SCCH. |

9.2.3.96a HS-DSCH Semi-Persistent scheduling Information to modify LCR

The *HS-PSCH Semi-Persistent scheduling Information to modify LCR* IE is used for the modification of HS-DSCH Semi-Persistent scheduling information for 1.28 Mcps TDD (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|------------------------------------|--|---|-------------|----------------------|
| Transport Block Size List | | 0< maxnoof TBSsMa pping > | | | - | |
| > Transport Block Size maping Index | М | | INTEGER (0 maxnoofTBSsMap ping-1) | Corresponds to the <i>Transport-</i> block size information field carried on HS- SCCH (see ref TS 25.222 [34]). | - | |
| >Transport Block Size Index | M | | INTEGER (1 maxnoofHS- DSCHTBSsLCR) | Corresponds to the <i>TB index</i> in the related | - | |

| | , | • | | | • | , |
|--|---|---|--|---|-----|--------|
| | | | | Transport Block Size table (see ref 3GPP TS 25.321 [32]). | | |
| Repetition Period list | | 0 <maxn oofRepeti tionPerio dLCR></maxn | | (5-1)/- | - | |
| >Repetition Period Index | М | | INTEGER (0 maxnoofRepetitio nPeriodLCR) | Corresponds to the Resource repetition period index field carried on HS-SCCH (see ref TS 25.222 [34]). | - | |
| >Repetition Period | M | | ENUMERATED (1, 2, 4, 8, 16, 32, 64,) | Units of subframes | - | |
| >Repetition Length | 0 | | INTEGER (163) | Absence means Repetition Length equal to 1. | - | |
| HS-DSCH Semi-Persistent Resource Reservation Indicator | 0 | | ENUMERATED(R eserve) | Reserve means the Semi- Persistent HS- DSCH Resource is required to be reserved and be informed via response message. | YES | ignore |
| HS-DSCH Semi-Persistent scheduling operation Indicator | | 01 | | | YES | reject |
| >CHOICE configuration | | | | | | |
| >>Logical Channel level | | | BIT STRING (16) | Available when MAC-ehs is configured. Indicates the logical channels for which the HS-DSCH Semi-Persistent operation is intended to be used. | | |
| >> Priority Queue level | | | BIT STRING (8) | Indicates the Priority Queues for which the HS- DSCH Semi- Persistent operation is intended to be used. | | |

| Range Bound | Explanation |
|----------------------------|--|
| maxnoofHS-DSCHTBSsLCR | Maximum number of HS-DSCH Transport Block Sizes |
| maxnoofRepetitionPeriodLCR | Maximum number of Repetition Period for 1.28Mcps TDD |
| maxnoofTBSsMapping | Maximum number of Transport Block Size mapping index on HS-SCCH. |

9.2.3.97 E-DCH Semi-Persistent scheduling Information LCR

The *E-DCH Semi-Persistent scheduling Information LCR* IE defines the parameters used for E-DCH semi-Persistent scheduling for 1.28 Mcps TDD (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|--|--|--|-------------|----------------------|
| Repetition Period list | | 1 <maxno cr="" nperiodl="" ofrepetitio=""></maxno> | | | - | |
| >Repetition Period Index | М | | INTEGER (0 maxnoofRepetition PeriodLCR-1) | | - | |
| >Repetition Period | M | | ENUMERATED (1, 2, 4, 8, 16, 32, 64,) | Units of subframes | - | |
| >Repetition Length | 0 | | INTEGER (163) | Absence means Repetition Length equal to 1. | - | |
| E-DCH Semi-Persistent scheduling Indicator | М | | BIT STRING (16) | Indicates the logical channels for which the E-DCH Semi-Persistent operation is intended to be used. | - | |
| Semi-Persistent E-DCH releted E-HICH Information | | 1 | | | - | |
| >E-HICH ID TDD | М | | 9.2.3.51a | If the Extended E-HICH ID TDD IE is included in the E-HICH Information IE, the E-HICH ID TDD IE shall be ignored. | - | |
| >Signature Sequence Group Index | М | | INTEGER (019) | | - | |
| >Extended E-HICH ID TDD | 0 | | 9.2.3.51b | The Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31. | - | |
| E-DCH Semi-Persistent Resource Reservation Indicator | 0 | | ENUMERATED(Re serve) | Reserve means the E-DCH Semi- Persistent Resource is required to be reserved and be informed via response message. | YES | ignore |

| Range Bound | Explanation | | |
|----------------------------|--|--|--|
| maxnoofRepetitionPeriodLCR | Maximum number of Repetition Period for 1.28Mcps TDD | | |

9.2.3.97a E-DCH Semi-Persistent scheduling Information to modify LCR

The *E-DCH Semi-Persistent scheduling Information to modify LCR* IE is used for the modification of E-DCH Semi-Persistent scheduling information for 1.28 Mcps TDD (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|------------------------|----------|--|--------------------------|--------------------------|-------------|----------------------|
| Repetition Period list | | 0 <maxno< th=""><th></th><th></th><th>-</th><th></th></maxno<> | | | - | |

| | | 1 | 1 | ı | 1 |
|---|-------|---|--|--|---|
| | | | | | |
| | | | | | |
| | CR> | | | | |
| M | | INTEGER (0 | | - | |
| | | | | | |
| | | | | | |
| M | | ENUMERATÉD | Units of subframes | - | |
| | | (1, 2, 4, 8, 16, 32, | | | |
| | | | | | |
| 0 | | | Absence means | - | |
| | | | | | |
| | | (******) | | | |
| 0 | | BIT STRING (16) | | _ | |
| | | 2 2 () | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | 01 | | | - | |
| | 0.1.1 | | | | |
| | | | | | |
| М | | 9.2.3.51a | If the Extended E- | - | |
| | | | HICH ID TDD IE is | | |
| | | | included in the E- | | |
| | | | HICH Information IE, | | |
| | | | the E-HICH ID TDD | | |
| | | | IE shall be ignored. | | |
| M | | INTEGER (019) | | - | |
| | | , , | | | |
| 0 | | 9.2.3.51b | The Extended E- | - | |
| | | | HICH ID TDD IE | | |
| | | | shall be used if the | | |
| | | | | | |
| | | | | | |
| | | | 31. | | |
| 0 | | ENUMERATED(Re | Reserve means the | YES | ignore |
| | | | E-DCH Semi- | | |
| | | ' | | | |
| | | | | | |
| | | | reserved and be | | |
| | | | informed via | | |
| | | | response message. | | |
| | M O O | M O O O O O O O O O O O O O O O O O O O | M INTEGER (0 maxnoofRepetition PeriodLCR-1) M ENUMERATED (1, 2, 4, 8, 16, 32, 64,) O INTEGER (163) O BIT STRING (16) M 9.2.3.51a M INTEGER (019) O 9.2.3.51b | M INTEGER (0 maxnoofRepetition PeriodLCR-1) M ENUMERATED (1, 2, 4, 8, 16, 32, 64,) O INTEGER (163) BIT STRING (16) BIT STRING (16) BIT STRING (16) Indicates the logical channels for which the E-DCH Semi-Persistent operation is intended to be used. O1 M 9.2.3.51a If the Extended E-HICH ID TDD IE is included in the E-HICH ID TDD IE shall be ignored. M INTEGER (019) O 9.2.3.51b The Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31. O ENUMERATED(Re serve) ENUMERATED(Re serve means the E-DCH Semi-Persistent Resource is required to be reserved and be informed via | M INTEGER (0 maxnoofRepetition PeriodLCR-1) M ENUMERATED (1, 2, 4, 8, 16, 32, 64,) O INTEGER (163) BIT STRING (16) BIT STRING (16) BIT STRING (16) BIT STRING (16) O1 Indicates the logical channels for which the E-DCH Semi-Persistent operation is intended to be used. O1 If the Extended E-HICH ID TDD IE is included in the E-HICH ID TDD IE shall be ignored. M INTEGER (019) O 9.2.3.51b The Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31. O ENUMERATED(Re serve) ENUMERATED(Re required to be reserved and be informed via |

| Range Bound | Explanation | | | |
|----------------------------|--|--|--|--|
| maxnoofRepetitionPeriodLCR | Maximum number of Repetition Period for 1.28Mcps TDD | | | |

9.2.3.98 HS-DSCH Semi-Persistent scheduling Information Response LCR

The *HS-DSCH Semi-Persistent scheduling Information Response LCR* IE provides information for HS-DSCH Semi-Persistent scheduling determined within the Node B (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and | Semantics | Criticality | Assigned |
|------------------------------|----------|-----------|---|-------------|-------------|-------------|
| | | | Reference | Description | | Criticality |
| HS-SICH information for | | 1< | | | - | |
| HS-DSCH Semi- | | maxnoofH | | | | |
| Persistent Scheduling | | S- | | | | |
| operation | | SICHforSP | | | | |
| • | | S> | | | | |
| >HS-SICH mapping index | М | | INTEGER (0 maxnoofHS- SICHforSPS-1) | | - | |
| 011100=11001011 | | | 310111013F3-1) | | | |
| >CHIOCE HS-SICH type | | | | | - | |
| >>HS-SCCH associated HS-SICH | | | | | - | |

| | | _ | | | | |
|--|---|----|---|---|-----|--------|
| >>>HS-SICH ID | M | | 9.2.3.5Gb | If the Extended HS- SICH ID IE is included in the HS- SICH Information LCR IE, the HS- SICH ID IE shall be ignored. | - | |
| >>>Extended HS-SICH ID | 0 | | 9.2.3.5K | The Extended HS- SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. | - | |
| >>Non-HS-SCCH associated HS-SICH | | | | | - | |
| >>>Non-HS-SCCH associated HS-SICH ID | M | | INTEGER (0255) | | - | |
| Allocated HS-PDSCH Semi-persistent resource | | 01 | | | - | |
| > Repetition Period Index | М | | INTEGER (0 maxnoofRepetition PeriodLCR-1) | | - | |
| >Repetition Length for HS-PDSCH Semi- persistent Resouce | 0 | | INTEGER (163) | The IE is not used. | - | |
| >HS-PDSCH offset | M | | INTEGER (063) | Units of subframes | - | |
| >Timeslot Resource Related Information | М | | BIT STRING(5) | Each bit indicates availability of a timeslot, where the bit 0 corresponds to TS2, the bit 1 is TS3, the bit 3 is TS4 bit 5 corresponds to TS6. The value 1 of a bit indicates that the corresponding timeslot is available. Bit 0 is the first/leftmost bit of the bit string. | - | |
| >Start Code | M | | TDD Channelisation Code 9.2.3.19 | | - | |
| >End Code | M | | TDD Channelisation Code 9.2.3.19 | | - | |
| >Transport Block Size Index | M | | INTEGER (0 maxnoofTBSsMapp ing-1) | | - | |
| >Modulation type | М | | ENUMERATED (QPSK, 16QAM) | | - | |
| >HS-SICH mapping index | М | | INTEGER (0 maxnoofHS- SICHforSPS-1) | | - | |
| >HS-PDSCH Midamble Configuation | 0 | | Midamble Shift LCR 9.2.3.7A | | YES | reject |

| Buffer Size for HS-DSCH | 0 | ENUMERATED | Indicats the buffer | - | |
|----------------------------|---|---------------|---------------------|---|--|
| Semi-Persistent scheduling | | (800304000,) | size that shall be | | |
| _ | | | reserved for HS- | | |
| | | | DSCH semi- | | |
| | | | persistent | | |
| | | | scheduling | | |
| | | | operation. | | |
| | | | | | |
| | | | 800 16000 by step | | |
| | | | of 800, 17600 | | |
| | | | 32000 by step of | | |
| | | | 1600, 36000 | | |
| | | | 80000 by step of | | |
| | | | 4000, 88000 | | |
| | | | 160000 by step of | | |
| | | | 8000, 176000 | | |
| | | | 304000 by step of | | |
| | | | 16000 | | |
| Number of Processes for | 0 | INTEGER (116) | | - | |
| HS-DSCH Semi-Persistent | | | | | |
| scheduling | | | | | |

| Range Bound | Explanation | | | | | |
|----------------------|--|--|--|--|--|--|
| maxnoofHS-SICHforSPS | Maximum number of HS-SICH for HS-DSCH Semi-Persistent scheduling operation | | | | | |
| maxnoofTBSsMapping | Maximum number of Transport Block Size mapping index on HS-SCCH. | | | | | |

9.2.3.99 E-DCH Semi-Persistent scheduling Information Response LCR

The *E-DCH Semi-Persistent scheduling Information Response LCR* IE provides information for E-DCH Semi-Persistent scheduling information determined within the Node B (see ref. TS 25.224 [21]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------|--|--|-------------|----------------------|
| Allcoated E-DCH Semi-persistent resource | | 1 | | | | |
| >Timeslot Resource Related Information LCR | M | | 9.2.3.54a | | | |
| >Power Resource Related Information | M | | 9.2.3.55 | | | |
| >Repetition Length | M | | INTEGER (163)) | The IE shall be ignored. | | |
| >Subframe Number | M | | ENUMERATE D (0,1) | Used to indicate from which subframe of the Radio Frame indicated by TDD E-PUCH Offset IE the physical resources are assigned to the E-DCH Nonscheduled Grant. | | |
| >TDD E-PUCH Offset | M | | 9.2.3.56 | | | |
| >TDD Channelisation Code | M | | 9.2.3.19 | | | |
| >NE-UCCH | M | | INTEGER (18) | Number of E-UCCH and TPC instances within an E-DCH TTI. Details are described in TS 25.221 [19]. | | |
| >Repetition Period Index | 0 | | INTEGER (0 maxnoofRepet itionPeriodLC R-1) | | YES | reject |

9.2.3.100 HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR

The *HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR* IE is used to deactivate HS-DSCH Semi-Persistent scheduling operation for 1.28 Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|-----------------------|
| HS-DSCH Semi-Persistent scheduling Deactivate Indicator | M | | NULL | |

9.2.3.101 E-DCH Semi-Persistent scheduling Deactivate Indicator LCR

The *E-DCH Semi-Persistent scheduling Deactivate Indicator LCR* IE is used to deactivate E-DCH Semi-Persistent schedulung operation for 1.28 Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|-------|--------------------------|-----------------------|
| E-DCH Semi-Persistent scheduling Deactivate Indicator | M | | NULL | |

9.2.3.102 Idle Interval Information

The *Idle Interval Information* IE indicates the idle interval used for E-UTRAN measurements by a multi-RAT UE in CELL_DCH state. Ref TS 36.133 [50].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| К | М | | INTEGER (0,2,3) | The actual idle interval period = 2^k. Value "0" means to delete the configuration related to E-UTRAN measurement |
| Offset | M | | INTEGER (07) | The idle interval position in the period. The IE shall be ignored when the value of the KIE is set to '0' |

9.2.3.103 HS-SICH Reference Signal Information

| IE/Group Name | Presence | Range | IE Type and | Semantics | Criticality | Assigned |
|-------------------|----------|-------|-----------------|------------------|-------------|-------------|
| | | | Reference | Description | | Criticality |
| Midamble | M | | ENUMERATE | As defined in TS | | |
| Configuration LCR | | | D (2, 4, 6, 8, | 25.221 [19] | | |
| | | | 10, 12, 14, 16, | | | |
| | | |) | | | |
| Midamble Shift | M | | INTEGER | | | |
| | | | (015) | | | |
| Time Slot LCR | M | | 9.2.3.24A | | | |

9.2.3.104 UE Selected MBMS Service Information

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description | Criticality | Assigned Criticality |
|--|----------|-------------------------------|--|---|-------------|-------------------------|
| CHOICE Status | 0 | | | | | |
| >None | | | NULL | | | |
| >Some | | | | | | |
| >>Selected MBMS Service List | | 1MaxMB MSService Select | | | | |
| >>>Selected MBMS Service Time Slot Information LCR | M | 07 | | This IE indicates the Time Slot information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. Mandatory if the IE UE Selected MBMS Service Action set to Selected. Otherwise optional. | | |
| >>>Time Slot LCR | М | | 9.2.3.24A | | _ | |
| >>>MBMS Service TDM Information | | 01 | | Indicating the MBMS service TDM Information | | |
| >>>> Transmission Time Interval | M | | ENUMER ATED (10, 20, 40, 80,) | Unit: ms | | |
| >>>>TDM_Rep | M | | Integer (29) | | | |
| >>>>TDM_Offset | M | | Integer (08) | | | |
| >>>>TDM_Length | M | | Integer (18) | | | |

9.2.3.105 Best Cell Portions LCR

Best Cell Portions LCR $\,$ IE indicates the best received cell portions and their RSCP values when Cell Portions are defined in the cell for 1.28 Mcps TDD..

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------|----------|--|--------------------------|--|
| Best Cell Portions LCR | | 1 <maxno ofBestCell PortionsL CR></maxno | | |
| >Cell Portion LCR ID | M | | 9.2.3.107 | |
| >RSCP Value | М | | INTEGER (0127) | According to mapping in TS 25.123 [23] |

| Range Bound | Explanation |
|----------------------------|---|
| maxnoofBestCellPortionsLCR | Maximum number of reported Best Received Cell Portions for 1.28 |
| | Mcps TDD |

9.2.3.106 Cell Portion Capability LCR

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|-----------------------------|----------|-------|-------------------|-----------------------|
| | | | Reference | |
| Cell Portion Capability LCR | | | ENUMERATED (Cell | |
| | | | Portion Capable, | |
| | | | Cell Portion Non- | |
| | | | Capable) | |

9.2.3.107 Cell Portion LCR ID

Cell Portion LCR ID is the unique identifier for a cell portion within a cell for 1.28 Mcps TDD. See TS 25.225 [5].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------------|----------|-------|--------------------------|-----------------------|
| Cell Portion LCR ID | | | INTEGER | |
| | | | (0255) | |

9.2.3.108 Number Of Reported Cell Portions LCR

Number of Reported Cell Portions LCR indicates the number of Best Cell Portions values which shall be included in the measurement report.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-------------------------|----------|-------|--------------------------|-----------------------|
| Number Of Reported Cell | | | INTEGER | |
| Portions LCR | | | (1256,) | |

9.2.3.109 TS0 Capability LCR

The parameter defines the TS0 capability for a Local Cell. The TS0 Capable indicates that the HS-PDSCH can be configured in TS0 in the Local Cell.

| IE/Group Name | Presence | Range | IE Type and | Semantics Description |
|--------------------|----------|-------|-------------------|-----------------------|
| | | | Reference | |
| TS0 Capability LCR | | | ENUMERATED | |
| | | | (TS0 Capable, TS0 | |
| | | | Non-Capable) | |

9.2.3.110 UE TS0 Capability LCR

The UE TSO Capability LCR IE defines the UE TSO enhancement capability, see ref TS 25.306 [33].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|-----------------------|----------|-------|--------------------------|-----------------------|
| UE TS0 Capability LCR | | | ENUMERATED (UE | |
| | | | TS0 Capable, UÈ | |
| | | | TS0 Non-Capable) | ļ |

9.2.3.111 DCH Measurement Occasion Information

The *DCH Measurement Occasion Information* IE indicates Measurement Occasion Information used for interfrequency/inter-RAT measurements in CELL_DCH state for 1.28Mcps TDD.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|----------|--|--|---|
| CELL_DCH measurement occasion pattern sequence | | 1 to <maxd CHMea sureme ntOcca sionPat ternSeq uence></maxd | | |
| >Pattern sequence identifier | M | | Integer(1 maxDCHMe asurementOc casionPatter nSequence) | |
| >Status Flag | M | | Enumerated(activate, deactivate) | This flag indicates whether the measurement occasion pattern sequence shall be activated or deactivated. |
| >Measurement occasion pattern sequence parameters | 0 | | | |
| >>k | M | | Integer(19) | CELL_DCH measurement occasion cycle length coefficient. The actual measurement occasion period equal to 2 ^k radio frames. Value 0 indicates continuous allocation. |
| >>Offset | M | | Integer(051 1) | In frames. The measurement occasion position in the measurement period. |
| >>M_Length | M | | Integer(151 2) | The measurement occasion length in frames starting from the Offset. |
| >>Timeslot Bitmap | M | | Bit string (7) | Bitmap indicating which of the |

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---------------|----------|-------|--------------------------|---|
| | | | | timeslot(s) is/are |
| | | | | allocated for |
| | | | | measurement. |
| | | | | Bit 0 is for timeslot 0. Bit 1 is for timeslot 1. Bit 2 is for timeslot 2. |
| | | | | Bit 3 is for timeslot 3. |
| | | | | Bit 4 is for timeslot 4. |
| | | | | Bit 5 is for timeslot 5. |
| | | | | Bit 6 is for timeslot 6. |
| | | | | The value 0 of a bit means the corresponding timeslot is not used for measurement. The value 1 of a bit means the corresponding timeslot is used for measurement. |
| | | | | Bit 0 is the first/leftmost bit of the bit string. |

| Range Bound | Explanation | | |
|---------------------------------------|--|--|--|
| maxDCHMeasurementOccasionPatternSeque | Maximum number of measurement occasion | | |
| nce | pattern sequence | | |

9.2.3.112 Adaptive Special Burst Power Capability LCR

This parameter defines whether the NodeB supports Adaptive Special Burst Power.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|------------------------------|----------|-------|--------------------------|-----------------------|
| Adaptive Special Burst Power | | | ENUMERATED | |
| Capability LCR | | | (Adaptive Special | |
| | | | Burst Power | |
| | | | Capable, Adaptive | |
| | | | Special Burst Power | |
| | | | non Capable) | |

9.3 Message and Information Element Abstract Syntax (with ASN.1)

9.3.0 General

Subclause 9.3 presents the Abstract Syntax of NBAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this subclause and the tabular format in subclauses 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of NBAP messages. NBAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a NBAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a NBAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in subclause 10.3.6.

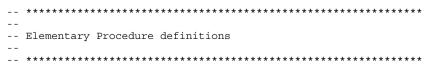
9.3.1 Usage of Private Message mechanism for non-standard use

The private message mechanism for non-standard use may be used.

- For special operator- (and/or vendor) specific features considered not to be part of the basic functionality, i.e. the functionality required for a complete and high-quality specification in order to guarantee multi-vendor inter-operability.
- By vendors for research purposes, e.g. to implement and evaluate new algorithms/features before such features are proposed for standardisation.

The private message mechanism shall not be used for basic functionality. Such functionality shall be standardised.

9.3.2 Elementary Procedure Definitions



```
NBAP-PDU-Descriptions {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Descriptions (0) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
       ******************
-- IE parameter types from other modules.
__ ********************
IMPORTS
    Criticality,
    ProcedureID,
   MessageDiscriminator,
    TransactionID
FROM NBAP-CommonDataTypes
    CommonTransportChannelSetupRequestFDD,
    CommonTransportChannelSetupRequestTDD,
    CommonTransportChannelSetupResponse,
    CommonTransportChannelSetupFailure,
    CommonTransportChannelReconfigurationRequestFDD,
    CommonTransportChannelReconfigurationRequestTDD,
    CommonTransportChannelReconfigurationResponse,
    CommonTransportChannelReconfigurationFailure,
    CommonTransportChannelDeletionRequest,
    CommonTransportChannelDeletionResponse,
    BlockResourceRequest,
    BlockResourceResponse,
    BlockResourceFailure,
   UnblockResourceIndication,
    AuditFailure,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,
    CommonMeasurementInitiationResponse,
    CommonMeasurementInitiationFailure,
    CommonMeasurementReport,
    CommonMeasurementTerminationRequest,
    CommonMeasurementFailureIndication,
    CellSetupRequestFDD,
    CellSetupRequestTDD,
    CellSetupResponse,
    CellSetupFailure,
    CellReconfigurationRequestFDD,
    CellReconfigurationRequestTDD,
    CellReconfigurationResponse,
    CellReconfigurationFailure,
    CellDeletionRequest,
```

CellDeletionResponse, InformationExchangeInitiationRequest, InformationExchangeInitiationResponse, InformationExchangeInitiationFailure, InformationReport, InformationExchangeTerminationRequest, InformationExchangeFailureIndication, BearerRearrangementIndication. ResourceStatusIndication, SystemInformationUpdateRequest, SystemInformationUpdateResponse, SystemInformationUpdateFailure, ResetRequest, ResetResponse, RadioLinkActivationCommandFDD, RadioLinkActivationCommandTDD, RadioLinkPreemptionRequiredIndication, RadioLinkSetupRequestFDD, RadioLinkSetupRequestTDD, RadioLinkSetupResponseFDD, RadioLinkSetupResponseTDD, RadioLinkSetupFailureFDD, RadioLinkSetupFailureTDD, RadioLinkAdditionRequestFDD. RadioLinkAdditionRequestTDD, RadioLinkAdditionResponseFDD, RadioLinkAdditionResponseTDD, RadioLinkAdditionFailureFDD, RadioLinkAdditionFailureTDD, RadioLinkParameterUpdateIndicationFDD, RadioLinkParameterUpdateIndicationTDD, RadioLinkReconfigurationPrepareFDD, RadioLinkReconfigurationPrepareTDD, RadioLinkReconfigurationReady, RadioLinkReconfigurationFailure, RadioLinkReconfigurationCommit, RadioLinkReconfigurationCancel, RadioLinkReconfigurationRequestFDD, RadioLinkReconfigurationRequestTDD, RadioLinkReconfigurationResponse, RadioLinkDeletionRequest, RadioLinkDeletionResponse, DL-PowerControlRequest, DL-PowerTimeslotControlRequest, DedicatedMeasurementInitiationRequest, DedicatedMeasurementInitiationResponse, DedicatedMeasurementInitiationFailure, DedicatedMeasurementReport, DedicatedMeasurementTerminationRequest, DedicatedMeasurementFailureIndication, RadioLinkFailureIndication, RadioLinkRestoreIndication, CompressedModeCommand, ErrorIndication,

PrivateMessage, PhysicalSharedChannelReconfigurationReguestTDD, PhysicalSharedChannelReconfigurationRequestFDD, PhysicalSharedChannelReconfigurationResponse, PhysicalSharedChannelReconfigurationFailure, CellSynchronisationInitiationRequestTDD, CellSynchronisationInitiationResponseTDD, CellSvnchronisationInitiationFailureTDD. CellSynchronisationReconfigurationRequestTDD, CellSynchronisationReconfigurationResponseTDD, CellSynchronisationReconfigurationFailureTDD, CellSynchronisationAdjustmentRequestTDD, CellSynchronisationAdjustmentResponseTDD, CellSynchronisationAdjustmentFailureTDD, CellSynchronisationReportTDD, CellSynchronisationTerminationRequestTDD, CellSynchronisationFailureIndicationTDD, MBMSNotificationUpdateCommand, UEStatusUpdateCommand, SecondaryULFrequencyReport, SecondaryULFrequencyUpdateIndication

FROM NBAP-PDU-Contents

id-audit. id-auditRequired, id-blockResource, id-cellDeletion, id-cellReconfiguration, id-cellSetup, id-cellSynchronisationInitiation, id-cellSynchronisationReconfiguration, id-cellSynchronisationReporting, id-cellSynchronisationTermination, id-cellSynchronisationFailure, id-commonMeasurementFailure, id-commonMeasurementInitiation. id-commonMeasurementReport, id-commonMeasurementTermination, id-commonTransportChannelDelete, id-commonTransportChannelReconfigure, id-commonTransportChannelSetup, id-compressedModeCommand, id-dedicatedMeasurementFailure, id-dedicatedMeasurementInitiation, id-dedicatedMeasurementReport, id-dedicatedMeasurementTermination. id-downlinkPowerControl. id-downlinkPowerTimeslotControl, id-errorIndicationForDedicated, id-errorIndicationForCommon, id-informationExchangeFailure, id-informationExchangeInitiation,

id-informationReporting,

```
id-informationExchangeTermination,
   id-BearerRearrangement,
   id-mBMSNotificationUpdate,
    id-physicalSharedChannelReconfiguration,
    id-privateMessageForDedicated,
    id-privateMessageForCommon,
    id-radioLinkActivation,
    id-radioLinkAddition,
   id-radioLinkDeletion,
   id-radioLinkFailure,
   id-radioLinkParameterUpdate,
   id-radioLinkPreemption,
   id-radioLinkRestoration,
   id-radioLinkSetup.
   id-reset,
   id-resourceStatusIndication,
   id-cellSynchronisationAdjustment,
    id-synchronisedRadioLinkReconfigurationCancellation,
    id-synchronisedRadioLinkReconfigurationCommit,
    id-synchronisedRadioLinkReconfigurationPreparation,
    id-systemInformationUpdate,
   id-unblockResource,
   id-unSynchronisedRadioLinkReconfiguration,
   id-uEStatusUpdate,
    id-secondaryULFrequencyReporting,
   id-secondaryULFrequencyUpdate
FROM NBAP-Constants;
        *************
-- Interface Elementary Procedure Class
__ *******************
NBAP-ELEMENTARY-PROCEDURE ::= CLASS {
   &InitiatingMessage
    &SuccessfulOutcome
                                      OPTIONAL,
    &UnsuccessfulOutcome
                                      OPTIONAL,
    &Outcome
                                      OPTIONAL,
    &messageDiscriminator
                                      MessageDiscriminator,
    &procedureID
                                      ProcedureID
                                                     UNIQUE,
    &criticality
                                      Criticality
                                                     DEFAULT ignore
WITH SYNTAX {
   INITIATING MESSAGE
                                      &InitiatingMessage
                                      &SuccessfulOutcomel
    [SUCCESSFUL OUTCOME
                                      &UnsuccessfulOutcomel
    [UNSUCCESSFUL OUTCOME
                                      &Outcome]
    [OUTCOME
                                      &messageDiscriminator
   MESSAGE DISCRIMINATOR
    PROCEDURE ID
                                      &procedureID
    [CRITICALITY
                                      &criticality]
```

```
-- Interface PDU Definition
NBAP-PDU ::= CHOICE {
    initiatingMessage
                            InitiatingMessage,
    succesfulOutcome
                            SuccessfulOutcome,
    unsuccesfulOutcome
                            UnsuccessfulOutcome,
    outcome
                            Outcome,
    . . .
InitiatingMessage ::= SEQUENCE
    procedureID
                            NBAP-ELEMENTARY-PROCEDURE. & procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
                            NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    criticality
                           NBAP-ELEMENTARY-PROCEDURE. & messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    messageDiscriminator
    transactionID
                           TransactionID,
    value
                            NBAP-ELEMENTARY-PROCEDURE.&InitiatingMessage({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
SuccessfulOutcome ::= SEOUENCE
    procedureID
                           NBAP-ELEMENTARY-PROCEDURE. &procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
    criticality
                            NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    messageDiscriminator
                           NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                           TransactionID,
                           NBAP-ELEMENTARY-PROCEDURE. &SuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
UnsuccessfulOutcome ::= SEQUENCE
   procedureID
                           NBAP-ELEMENTARY-PROCEDURE. &procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
                           NBAP-ELEMENTARY-PROCEDURE. & criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    criticality
    messageDiscriminator NBAP-ELEMENTARY-PROCEDURE. &messageDiscriminator ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                           TransactionID,
    value
                           NBAP-ELEMENTARY-PROCEDURE. &UnsuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
Outcome ::= SEQUENCE {
    procedureID
                            NBAP-ELEMENTARY-PROCEDURE.&procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
                            NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    criticality
    messageDiscriminator
                           NBAP-ELEMENTARY-PROCEDURE. &messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                            TransactionID,
    value
                            NBAP-ELEMENTARY-PROCEDURE. &Outcome ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
  Interface Elementary Procedure List
NBAP-ELEMENTARY-PROCEDURES NBAP-ELEMENTARY-PROCEDURE ::= {
```

```
NBAP-ELEMENTARY-PROCEDURES-CLASS-1
   NBAP-ELEMENTARY-PROCEDURES-CLASS-2
NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
    cellSetupFDD
    cellSetupTDD
    cellReconfigurationFDD
    cellReconfigurationTDD
    cellDeletion
    commonTransportChannelSetupFDD
    commonTransportChannelSetupTDD
    commonTransportChannelReconfigureFDD
    commonTransportChannelReconfigureTDD
    commonTransportChannelDelete
    audit.
    blockResource
    radioLinkSetupFDD
    radioLinkSetupTDD
    systemInformationUpdate
    commonMeasurementInitiation
    radioLinkAdditionFDD
    radioLinkAdditionTDD
    radioLinkDeletion
    reset
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unSynchronisedRadioLinkReconfigurationFDD
    unSynchronisedRadioLinkReconfigurationTDD
    dedicatedMeasurementInitiation
    physicalSharedChannelReconfigurationTDD
    informationExchangeInitiation
    cellSynchronisationInitiationTDD
    cellSynchronisationReconfigurationTDD
    cellSynchronisationAdjustmentTDD
    physicalSharedChannelReconfigurationFDD
NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication
    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
    radioLinkFailure
    radioLinkPreemption
    radioLinkRestoration
    dedicatedMeasurementReport
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
```

```
downlinkPowerControlFDD
    downlinkPowerTimeslotControl
    compressedModeCommand
   unblockResource
    errorIndicationForDedicated
   errorIndicationForCommon
   privateMessageForDedicated
   privateMessageForCommon
   informationReporting
    informationExchangeTermination
    informationExchangeFailure
    cellSynchronisationReportingTDD
    cellSynchronisationTerminationTDD
    cellSynchronisationFailureTDD
    bearerRearrangement
    radioLinkActivationFDD
    radioLinkActivationTDD
    radioLinkParameterUpdateFDD
   radioLinkParameterUpdateTDD
   mBMSNotificationUpdate
   uEStatusUpdate
    secondaryULFrequencyReportingFDD
    secondaryULFrequencyUpdateFDD
-- Interface Elementary Procedures
  *****************
-- Class 1
-- *** CellSetup (FDD) ***
cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                           CellSetupRequestFDD
    INITIATING MESSAGE
                           CellSetupResponse
   SUCCESSFUL OUTCOME
   UNSUCCESSFUL OUTCOME
                           CellSetupFailure
   MESSAGE DISCRIMINATOR
                           { procedureCode id-cellSetup, ddMode fdd }
   PROCEDURE ID
   CRITICALITY
                           reject
-- *** CellSetup (TDD) ***
cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                           CellSetupRequestTDD
    INITIATING MESSAGE
   SUCCESSFUL OUTCOME
                           CellSetupResponse
                           CellSetupFailure
   UNSUCCESSFUL OUTCOME
   MESSAGE DISCRIMINATOR
                           common
   PROCEDURE ID
                           { procedureCode id-cellSetup, ddMode tdd }
   CRITICALITY
                           reject
```

```
-- *** CellReconfiguration(FDD) ***
cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellReconfigurationRequestFDD
    SUCCESSFUL OUTCOME
                            CellReconfigurationResponse
                            CellReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-cellReconfiguration, ddMode fdd
    CRITICALITY
-- *** CellReconfiguration(TDD) ***
cellReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellReconfigurationRequestTDD
                            CellReconfigurationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            CellReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            { procedureCode id-cellReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
-- *** CellDeletion ***
cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellDeletionRequest
    SUCCESSFUL OUTCOME
                            CellDeletionResponse
    MESSAGE DISCRIMINATOR
                            { procedureCode id-cellDeletion, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** CommonTransportChannelSetup (FDD) ***
commonTransportChannelSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelSetupRequestFDD
                            CommonTransportChannelSetupResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelSetupFailure
   MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelSetup, ddMode fdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelSetup (TDD) ***
commonTransportChannelSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelSetupRequestTDD
    INITIATING MESSAGE
                            CommonTransportChannelSetupResponse
    SUCCESSFUL OUTCOME
                            CommonTransportChannelSetupFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelSetup, ddMode tdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelReconfigurationRequestFDD
    INITIATING MESSAGE
                            {\tt CommonTransportChannelReconfigurationResponse}
    SUCCESSFUL OUTCOME
```

```
CommonTransportChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
    CRITICALITY
-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelReconfigurationRequestTDD
                            CommonTransportChannelReconfigurationResponse
    SUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelReconfigure, ddMode tdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelDelete ***
commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelDeletionRequest
                            CommonTransportChannelDeletionResponse
    SUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-commonTransportChannelDelete, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            AuditRequest
                            AuditResponse
    SUCCESSFUL OUTCOME
                            AuditFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-audit, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** BlockResourceRequest ***
blockResource NBAP-ELEMENTARY-PROCEDURE ::= {
                            BlockResourceRequest
    INITIATING MESSAGE
                            BlockResourceResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            BlockResourceFailure
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-blockResource, ddMode common }
    CRITICALITY
                            reject
-- *** RadioLinkSetup (FDD) ***
radioLinkSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkSetupRequestFDD
    SUCCESSFUL OUTCOME
                            RadioLinkSetupResponseFDD
                            RadioLinkSetupFailureFDD
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-radioLinkSetup, ddMode fdd }
    CRITICALITY
                            reject
```

```
-- *** RadioLinkSetup (TDD) ***
radioLinkSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkSetupRequestTDD
    SUCCESSFUL OUTCOME
                            RadioLinkSetupResponseTDD
                            RadioLinkSetupFailureTDD
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-radioLinkSetup, ddMode tdd }
    CRITICALITY
-- *** SystemInformationUpdate ***
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            SystemInformationUpdateRequest
    SUCCESSFUL OUTCOME
                            SystemInformationUpdateResponse
    UNSUCCESSFUL OUTCOME
                            SystemInformationUpdateFailure
    MESSAGE DISCRIMINATOR
                            { procedureCode id-systemInformationUpdate, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** Reset ***
reset NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResetRequest
    SUCCESSFUL OUTCOME
                            ResetResponse
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-reset, ddMode common }
    CRITICALITY
                            reject
-- *** CommonMeasurementInitiation ***
commonMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementInitiationRequest
                            CommonMeasurementInitiationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            CommonMeasurementInitiationFailure
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonMeasurementInitiation, ddMode common }
    CRITICALITY
                            reject
-- *** RadioLinkAddition (FDD) ***
radioLinkAdditionFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkAdditionRequestFDD
                            RadioLinkAdditionResponseFDD
    SUCCESSFUL OUTCOME
                            RadioLinkAdditionFailureFDD
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-radioLinkAddition, ddMode fdd }
    CRITICALITY
                            reject
-- *** RadioLinkAddition (TDD) ***
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::=
```

```
RadioLinkAdditionRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkAdditionResponseTDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkAdditionFailureTDD
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkAddition, ddMode tdd }
    CRITICALITY
                            reject
-- *** RadioLinkDeletion
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkDeletionRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkDeletionResponse
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkDeletion, ddMode common }
                            reject
    CRITICALITY
-- *** SynchronisedRadioLinkReconfigurationPreparation (FDD) ***
synchronisedRadioLinkReconfigurationPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationPrepareFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationReady
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
    CRITICALITY
                            reject
-- *** SynchronisedRadioLinkReconfigurationPreparation (TDD) ***
synchronisedRadioLinkReconfigurationPreparationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationPrepareTDD
    INITIATING MESSAGE
                            RadioLinkReconfigurationReady
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** UnSynchronisedRadioLinkReconfiguration (FDD) ***
unSynchronisedRadioLinkReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkReconfigurationRequestFDD
                            RadioLinkReconfigurationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    CRITICALITY
                            reject
-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***
unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkReconfigurationRequestTDD
                            RadioLinkReconfigurationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    PROCEDURE ID
```

```
CRITICALITY
                            reject
-- *** DedicatedMeasurementInitiation ***
dedicatedMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementInitiationRequest
                            DedicatedMeasurementInitiationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            DedicatedMeasurementInitiationFailure
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-dedicatedMeasurementInitiation, ddMode common
    PROCEDURE ID
    CRITICALITY
-- *** PhysicalSharedChannelReconfiguration (FDD) ***
physicalSharedChannelReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                                PhysicalSharedChannelReconfigurationRequestFDD
                                PhysicalSharedChannelReconfigurationResponse
    SUCCESSFUL OUTCOME
                                PhysicalSharedChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                                { procedureCode id-physicalSharedChannelReconfiguration, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                                reject
-- *** PhysicalSharedChannelReconfiguration (TDD) ***
physicalSharedChannelReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                                PhysicalSharedChannelReconfigurationReguestTDD
                                PhysicalSharedChannelReconfigurationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                                PhysicalSharedChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                                { procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                                reject
-- *** InformationExchangeInitiation ***
informationExchangeInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeInitiationRequest
    SUCCESSFUL OUTCOME
                            {\tt InformationExchangeInitiationResponse}
                            InformationExchangeInitiationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-informationExchangeInitiation, ddMode common
    CRITICALITY
                            reject
-- *** CellSynchronisationInitiation (TDD only) ***
cellSvnchronisationInitiationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                                CellSynchronisationInitiationRequestTDD
    SUCCESSFUL OUTCOME
                                CellSynchronisationInitiationResponseTDD
    UNSUCCESSFUL OUTCOME
                                CellSynchronisationInitiationFailureTDD
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                                { procedureCode id-cellSynchronisationInitiation, ddMode tdd }
    CRITICALITY
                                reject
-- *** CellSynchronisationReconfiguration (TDD only) ***
```

```
cellSynchronisationReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                                CellSynchronisationReconfigurationRequestTDD
    SUCCESSFUL OUTCOME
                                CellSynchronisationReconfigurationResponseTDD
    UNSUCCESSFUL OUTCOME
                                CellSynchronisationReconfigurationFailureTDD
    MESSAGE DISCRIMINATOR
                                { procedureCode id-cellSynchronisationReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                                reject
-- *** CellSynchronisationAdjustment (TDD only) ***
cellSynchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                               CellSynchronisationAdjustmentRequestTDD
    SUCCESSFUL OUTCOME
                               CellSynchronisationAdjustmentResponseTDD
                               CellSynchronisationAdjustmentFailureTDD
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                                { procedureCode id-cellSynchronisationAdjustment, ddMode tdd }
    CRITICALITY
                               reject
-- Class 2
-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResourceStatusIndication
    MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-resourceStatusIndication, ddMode common }
    CRITICALITY
                            ignore
-- *** AuditRequired ***
auditRequired NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            AuditRequiredIndication
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                             procedureCode id-auditRequired, ddMode common }
    CRITICALITY
                            ignore
-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementReport
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                              procedureCode id-commonMeasurementReport, ddMode common
    CRITICALITY
                            ignore
-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            CommonMeasurementTerminationRequest
    MESSAGE DISCRIMINATOR
                           common
                            { procedureCode id-commonMeasurementTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** CommonMeasurementFailure ***
```

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```
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementFailureIndication
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonMeasurementFailure, ddMode common }
    CRITICALITY
                            ignore
-- *** SynchronisedRadioLinkReconfigurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationCommit
    INITIATING MESSAGE
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationCancel
    INITIATING MESSAGE
                            dedicated
    MESSAGE DISCRIMINATOR
                             procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common
    PROCEDURE ID
    CRITICALITY
-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::=
                            RadioLinkFailureIndication
    INITIATING MESSAGE
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                             procedureCode id-radioLinkFailure, ddMode common
    CRITICALITY
                            ignore
-- *** RadioLinkPreemption ***
radioLinkPreemption NBAP-ELEMENTARY-PROCEDURE ::= {
                                RadioLinkPreemptionRequiredIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                                dedicated
    PROCEDURE ID
                                { procedureCode id-radioLinkPreemption, ddMode common }
    CRITICALITY
                                ignore
-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkRestoreIndication
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-radioLinkRestoration, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
                            DedicatedMeasurementReport
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                             procedureCode id-dedicatedMeasurementReport, ddMode common }
    CRITICALITY
                            ignore
```

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```
-- *** DedicatedMeasurementTermination ***
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementTerminationRequest
    MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementFailure ***
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            DedicatedMeasurementFailureIndication
    MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementFailure, ddMode common }
                            ignore
    CRITICALITY
-- *** DLPowerControl (FDD only) ***
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DL-PowerControlRequest
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-downlinkPowerControl, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
-- *** DLPowerTimeslotControl (TDD only) ***
downlinkPowerTimeslotControl NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DL-PowerTimeslotControlRequest
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CompressedModeCommand
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-compressedModeCommand, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            UnblockResourceIndication
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-unblockResource, ddMode common }
    CRITICALITY
                            ignore
-- *** ErrorIndication for Dedicated procedures ***
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ErrorIndication
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-errorIndicationForDedicated, ddMode common }
    PROCEDURE ID
```

```
CRITICALITY
                            ignore
-- *** ErrorIndication for Common procedures ***
errorIndicationForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ErrorIndication
    MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-errorIndicationForCommon, ddMode common }
    CRITICALITY
-- *** CellSynchronisationReporting (TDD only) ***
cellSynchronisationReportingTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellSynchronisationReportTDD
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-cellSynchronisationReporting, ddMode tdd }
    CRITICALITY
-- *** CellSynchronisationTermination (TDD only) ***
cellSynchronisationTerminationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CellSynchronisationTerminationRequestTDD
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-cellSynchronisationTermination, ddMode tdd }
    CRITICALITY
                            ignore
-- *** CellSynchronisationFailure (TDD only) ***
cellSynchronisationFailureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CellSynchronisationFailureIndicationTDD
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-cellSynchronisationFailure, ddMode tdd }
    CRITICALITY
                            ignore
-- *** PrivateMessage for Dedicated procedures ***
privateMessageForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
                            PrivateMessage
    INITIATING MESSAGE
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-privateMessageForDedicated, ddMode common }
    CRITICALITY
                            ignore
-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            PrivateMessage
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-privateMessageForCommon, ddMode common }
    CRITICALITY
-- *** InformationReporting ***
informationReporting NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            InformationReport
```

```
MESSAGE DISCRIMINATOR
    PROCEDURE ID
                             procedureCode id-informationReporting, ddMode common }
    CRITICALITY
-- *** InformationExchangeTermination ***
informationExchangeTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeTerminationRequest
    MESSAGE DISCRIMINATOR
                              procedureCode id-informationExchangeTermination, ddMode common
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** InformationExchangeFailure ***
informationExchangeFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeFailureIndication
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-informationExchangeFailure, ddMode common }
    CRITICALITY
-- *** BearerRearrangement ***
bearerRearrangement NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            BearerRearrangementIndication
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-BearerRearrangement, ddMode common }
                            ignore
    CRITICALITY
-- *** RadioLinkActivation (FDD) ***
radioLinkActivationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkActivationCommandFDD
   MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkActivation, ddMode fdd }
    CRITICALITY
                            ignore
-- *** RadioLinkActivation (TDD) ***
radioLinkActivationTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkActivationCommandTDD
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkActivation, ddMode tdd
                            ignore
    CRITICALITY
-- *** RadioLinkParameterUpdate (FDD) ***
radioLinkParameterUpdateFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationFDD
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-radioLinkParameterUpdate, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** RadioLinkParameterUpdate (TDD) ***
```

```
radioLinkParameterUpdateTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationTDD
    MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkParameterUpdate, ddMode tdd }
    CRITICALITY
                            ignore
-- *** MBMSNotificationUpdate ***
mBMSNotificationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            MBMSNotificationUpdateCommand
   MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-mBMSNotificationUpdate, ddMode common }
    CRITICALITY
                            ignore
-- *** UEStatusUpdate ***
uEStatusUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            UEStatusUpdateCommand
    MESSAGE DISCRIMINATOR
                            { procedureCode id-uEStatusUpdate, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** SecondaryULFrequencyReporting (FDD) ***
secondaryULFrequencyReportingFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            SecondaryULFrequencyReport
                           dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-secondaryULFrequencyReporting, ddMode fdd }
    CRITICALITY
                            ignore
-- ***secondaryULFrequencyUpdate (FDD)
secondaryULFrequencyUpdateFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            SecondaryULFrequencyUpdateIndication
   MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID
                            { procedureCode id-secondaryULFrequencyUpdate, ddMode fdd }
    CRITICALITY
                            ignore
END
```

9.3.3 PDU Definitions

BEGIN __ ********************* -- IE parameter types from other modules. __ ********************* Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power. AICH-TransmissionTiming, AllocationRetentionPriority, AlternativeFormatReportingIndicator, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, BroadcastReference, SCTD-Indicator, Cause, CCTrCH-ID, Cell-ERNTI-Status-Information, CellParameterID. CellPortionID, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CellPortion-CapabilityLCR, CFN. ChipOffset, C-ID, Closedlooptimingadjustmentmode, CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, Common-MACFlows-to-DeleteFDD, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, CommonPhysicalChannelID768, Common-EDCH-Capability, Common-E-DCH-HSDPCCH-Capability, Common-EDCH-System-InformationFDD, Common-EDCH-System-Information-ResponseFDD, Common-PhysicalChannel-Status-Information, Common-PhysicalChannel-Status-Information768, Common-TransportChannel-Status-Information,

```
CommonTransportChannelID,
CommonTransportChannel-InformationResponse,
CommunicationControlPortID.
ConfigurationGenerationID,
ConstantValue.
ContinuousPacketConnectivityDTX-DRX-Capability,
ContinuousPacketConnectivityDTX-DRX-Information,
ContinuousPacketConnectivityHS-SCCH-less-Capability,
ContinuousPacketConnectivityHS-SCCH-less-Information,
ContinuousPacketConnectivityHS-SCCH-less-Information-Response,
ContinuousPacketConnectivity-DRX-CapabilityLCR,
ContinuousPacketConnectivity-DRX-InformationLCR,
Continuous Packet Connectivity - DRX - Information - Response LCR,
CPC-InformationLCR.
CPC-Information,
CriticalityDiagnostics,
CRNC-CommunicationContextID,
CSBMeasurementID,
CSBTransmissionID,
DCH-FDD-Information,
DCH-Indicator-For-E-DCH-HSDPA-Operation,
DCH-InformationResponse,
DCH-ID,
FDD-DCHs-to-Modify,
TDD-DCHs-to-Modify,
DCH-TDD-Information,
DedicatedChannelsCapacityConsumptionLaw,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DedicatedMeasurementValueInformation,
DelayedActivation,
DelayedActivationUpdate,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
DL-DPCH-TimingAdjustment,
DL-or-Global-CapacityCredit,
DL-Power,
DL-PowerBalancing-Information,
DL-PowerBalancing-ActivationIndicator,
DLPowerAveragingWindowSize,
DL-PowerBalancing-UpdatedIndicator,
DL-ScramblingCode,
DL-TimeslotISCP,
DL-Timeslot-Information,
DL-TimeslotLCR-Information,
DL-TimeslotISCPInfo.
DL-TimeslotISCPInfoLCR,
DL-TPC-Pattern01Count,
DPC-Mode,
DPCH-ID,
DPCH-ID768,
DSCH-ID,
DSCH-InformationResponse,
```

```
DSCH-TDD-Information,
Dual-Band-Capability-Info,
DwPCH-Power.
E-AGCH-FDD-Code-Information,
E-AI-Capability,
E-DCH-Capability,
E-DCHCapacityConsumptionLaw,
E-DCH-TTI2ms-Capability,
E-DCH-SF-Capability,
E-DCH-HARQ-Combining-Capability,
E-DCH-FDD-DL-Control-Channel-Information,
E-DCH-FDD-Information,
E-DCH-FDD-Information-Response,
E-DCH-FDD-Information-to-Modify,
E-DCH-FDD-Update-Information,
E-DCH-MACdFlow-ID,
E-DCH-MACdFlows-Information,
E-DCH-MACdFlows-to-Delete,
E-DCH-MACdPDU-SizeCapability,
E-DCH-RL-Indication,
E-DCH-Serving-Cell-Change-Info-Response,
E-DPCCH-PO,
E-RGCH-E-HICH-FDD-Code-Information,
E-RGCH-2-IndexStepThreshold.
E-RGCH-3-IndexStepThreshold,
End-Of-Audit-Sequence-Indicator,
Enhanced-FACH-Capability,
Enhanced-PCH-Capability,
Enhanced-UE-DRX-Capability,
Enhanced-UE-DRX-InformationFDD,
E-TFCS-Information,
E-TTI.
ExtendedPropagationDelay,
Fast-Reconfiguration-Mode,
Fast-Reconfiguration-Permission,
FDD-DL-ChannelisationCodeNumber.
FDD-DL-CodeInformation.
FDD-S-CCPCH-FrameOffset,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
F-DPCH-Capability,
F-DPCH-SlotFormat,
F-DPCH-SlotFormatCapability,
FirstRLS-Indicator,
FNReportingIndicator,
FPACH-Power,
FrameAdjustmentValue,
FrameHandlingPriority,
FrameOffset,
HARO-Info-for-E-DCH,
HSDPA-Capability,
HSDSCH-Common-System-InformationFDD,
HSDSCH-Common-System-Information-ResponseFDD,
HSDSCH-Configured-Indicator,
```

```
HSDSCH-Paging-System-InformationFDD,
HSDSCH-Paging-System-Information-ResponseFDD,
HS-DSCH-Serving-Cell-Change-Info,
HS-DSCH-Serving-Cell-Change-Info-Response,
HSDSCH-MACdPDU-SizeCapability,
HS-PDSCH-FDD-Code-Information,
HS-SCCH-ID,
HS-SCCH-FDD-Code-Information,
HS-SICH-ID,
IB-OC-ID,
IB-SG-DATA,
IB-SG-POS,
IB-SG-REP,
IB-Type,
InformationExchangeID,
InformationReportCharacteristics,
InformationType,
Initial-DL-DPCH-TimingAdjustment-Allowed,
InnerLoopDLPCStatus,
IPDL-FDD-Parameters,
IPDL-TDD-Parameters,
IPDL-Indicator,
IPDL-TDD-Parameters-LCR,
IPMulticastIndication,
LimitedPowerIncrease,
Local-Cell-ID,
MaximumDL-PowerCapability,
Maximum-Target-ReceivedTotalWideBandPower,
MaximumTransmissionPower,
MaxNrOfUL-DPDCHs,
Max-Set-E-DPDCHs,
MaxPRACH-MidambleShifts,
Max-UE-DTX-Cycle,
MBMS-Capability,
MeasurementFilterCoefficient,
MeasurementID,
MeasurementRecoveryBehavior,
MeasurementRecoveryReportingIndicator,
MeasurementRecoverySupportIndicator,
MICH-CFN,
MICH-Mode,
MidambleAllocationMode,
MidambleShiftAndBurstType,
MidambleShiftAndBurstType768,
MidambleShiftLCR,
MinimumDL-PowerCapability,
MinSpreadingFactor,
MIMO-Capability,
MIMO-PilotConfiguration,
MinUL-ChannelisationCodeLength,
Modification-Period,
MultiplexingPosition,
NCyclesPerSFNperiod,
NRepetitionsPerCyclePeriod,
```

```
N-INSYNC-IND,
N-OUTSYNC-IND.
NeighbouringCellMeasurementInformation,
NeighbouringFDDCellMeasurementInformation,
NeighbouringTDDCellMeasurementInformation,
NI-Information,
NodeB-CommunicationContextID,
NotificationIndicatorLength,
NumberOfReportedCellPortions,
NumberOfReportedCellPortionsLCR,
NSubCyclesPerCyclePeriod,
PagingIndicatorLength,
Paging-MACFlows-to-DeleteFDD,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PDSCHSet-ID,
PDSCH-ID,
PDSCH-ID768,
PICH-Mode,
PICH-Power,
PLCCHinformation,
PowerAdjustmentType,
PowerOffset,
PowerRaiseLimit,
PRACH-Midamble,
PreambleSignatures,
PreambleThreshold,
PredictedSFNSFNDeviationLimit,
PredictedTUTRANGPSDeviationLimit,
PrimaryCPICH-Power,
Primary-CPICH-Usage-for-Channel-Estimation,
PrimaryScramblingCode,
PropagationDelay,
SCH-TimeSlot,
PunctureLimit,
PUSCHSet-ID,
PUSCH-ID.
OE-Selector,
RACH-SlotFormat,
RACH-SubChannelNumbers,
Reference-ReceivedTotalWideBandPower,
Reference-ReceivedTotalWideBandPowerReporting,
Reference-ReceivedTotalWideBandPowerSupportIndicator,
Maximum-Target-ReceivedTotalWideBandPower-LCR,
ReferenceClockAvailability,
ReferenceSFNoffset,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
RequestedDataValue,
RequestedDataValueInformation,
ResourceOperationalState,
RL-Set-ID,
RL-ID,
```

```
RL-Specific-DCH-Info,
RL-Specific-E-DCH-Info,
Received-total-wide-band-power-Value,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
RNC-ID,
ScramblingCodeNumber,
Secondary-CPICH-Information-Change,
SecondaryCCPCH-SlotFormat,
Segment-Type,
Semi-PersistentScheduling-CapabilityLCR,
Serving-E-DCH-RL-ID,
SixteenQAM-UL-Capability,
SixtyfourOAM-DL-Capability,
SixtyfourOAM-DL-MIMO-Combined-Capability,
SFNSFNChangeLimit,
SFNSFNDriftRate,
SFNSFNDriftRateQuality,
SFNSFNQuality,
ShutdownTimer,
SIB-Originator,
SpecialBurstScheduling,
SignallingBearerRequestIndicator,
Start-Of-Audit-Sequence-Indicator,
STTD-Indicator,
SSDT-SupportIndicator,
E-DPCCH-Power-Boosting-Capability,
SyncCase,
SYNCDlCodeId,
SyncFrameNumber,
SynchronisationReportCharacteristics,
SynchronisationReportType,
Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio,
T-Cell.
T-RLFAILURE,
TDD-ChannelisationCode,
TDD-ChannelisationCodeLCR,
TDD-ChannelisationCode768,
TDD-DL-Code-LCR-Information,
TDD-DPCHOffset,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TDD-UL-Code-LCR-Information,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TimeSlot,
TimeSlotLCR,
TimeSlotDirection,
TimeSlotStatus,
TimingAdjustmentValue,
```

```
TimingAdvanceApplied,
TnlOos,
TOAWE.
TOAWS.
TransmissionDiversityApplied,
TransmitDiversityIndicator,
TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportBearerRequestIndicator,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
TUTRANGPS,
TUTRANGPSChangeLimit,
TUTRANGPSDriftRate,
TUTRANGPSDriftRateQuality,
TUTRANGPSOuality,
UARFCN,
UC-Id,
USCH-Information,
USCH-InformationResponse,
UL-CapacityCredit,
UL-DPCCH-SlotFormat,
UL-DPDCH-Indicator-For-E-DCH-Operation,
UL-SIR,
UL-FP-Mode,
UL-PhysCH-SF-Variation,
UL-ScramblingCode,
UL-Timeslot-Information,
UL-TimeslotLCR-Information,
UL-TimeSlot-ISCP-Info,
UL-TimeSlot-ISCP-LCR-Info,
UL-TimeslotISCP-Value,
UL-TimeslotISCP-Value-IncrDecrThres.
USCH-ID.
HSDSCH-FDD-Information,
HSDSCH-FDD-Information-Response,
HSDSCH-Information-to-Modify,
HSDSCH-Information-to-Modify-Unsynchronised,
HSDSCH-MACdFlow-ID,
HSDSCH-MACdFlows-Information,
HSDSCH-MACdFlows-to-Delete,
HSDSCH-RNTI,
HSDSCH-TDD-Information,
HSDSCH-TDD-Information-Response,
PrimaryCCPCH-RSCP,
HSDSCH-FDD-Update-Information,
HSDSCH-TDD-Update-Information,
UL-Synchronisation-Parameters-LCR,
TDD-DL-DPCH-TimeSlotFormat-LCR,
TDD-UL-DPCH-TimeSlotFormat-LCR,
TDD-TPC-UplinkStepSize-LCR,
CellSyncBurstTimingLCR,
TimingAdjustmentValueLCR,
```

```
PrimaryCCPCH-RSCP-Delta,
SynchronisationIndicator,
TDD-UL-Code-768-Information.
UL-Timeslot768-Information,
TDD-DL-Code-768-Information,
DL-Timeslot768-Information,
E-DCH-TDD-CapacityConsumptionLaw,
E-DCH-Information,
E-DCH-Information-Response,
E-DCH-Information-Reconfig,
LTGI-Presence,
SNPL-Reporting-Type,
E-AGCH-Id,
E-HICH-TimeOffset.
Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells,
E-DCH-768-Information.
E-DCH-768-Information-Reconfig,
RTWP-ReportingIndicator,
RTWP-CellPortion-ReportingIndicator,
MAChs-ResetIndicator,
E-DCH-LCR-Information,
E-DCH-LCR-Information-Reconfig,
E-HICH-ID-TDD,
E-HICH-TimeOffsetLCR,
E-HICH-Type,
ModulationPO-MBSFN,
Secondary-CCPCH-SlotFormat-Extended,
ModulationMBSFN,
MBSFN-Only-Mode-Indicator,
MBSFN-Only-Mode-Capability,
UPPCHPositionLCR,
ControlGAP,
IdleIntervalInformation,
Extended-HS-SICH-ID,
Extended-HS-SCCH-ID,
TimeslotLCR-Extension,
Extended-E-HICH-ID-TDD,
AdditionalTimeSlotListLCR,
AdditionalMeasurementValueList,
HS-SCCH-ID-LCR,
Paging-MACFlows-to-DeleteLCR,
HSDSCH-Paging-System-InformationLCR,
HSDSCH-Paging-System-Information-ResponseLCR,
HSDSCH-Common-System-InformationLCR,
HSDSCH-Common-System-Information-ResponseLCR,
Enhanced-UE-DRX-InformationLCR,
E-DCH-MACdFlow-ID-LCR,
Common-EDCH-System-InformationLCR,
Common-EDCH-System-Information-ResponseLCR,
Common-MACFlows-to-DeleteLCR,
DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst,
E-DCH-MACdFlows-to-DeleteLCR,
HSDSCH-PreconfigurationSetup,
HSDSCH-PreconfigurationInfo,
```

```
NoOfTargetCellHS-SCCH-Order,
    EnhancedHSServingCC-Abort,
    GANSS-Time-ID.
    HS-DSCH-FDD-Secondary-Serving-Update-Information,
    HS-DSCH-Secondary-Serving-Remove,
    HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised,
    HS-DSCH-Secondary-Serving-Information-To-Modify,
    HS-DSCH-Secondary-Serving-Cell-Change-Information-Response,
    HS-DSCH-FDD-Secondary-Serving-Information-Response,
    HS-DSCH-FDD-Secondary-Serving-Information,
    Multi-Cell-Capability-Info,
    MinimumReducedE-DPDCH-GainFactor,
    IMB-Parameters.
    E-RNTI.
    E-DCH-Semi-PersistentScheduling-Information-LCR,
    HS-DSCH-Semi-PersistentScheduling-Information-LCR,
    Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst,
    Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
    Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst,
    Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext,
    HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR,
    E-DCH-Semi-PersistentScheduling-Information-ResponseLCR,
    HSSICH-ReferenceSignal-InformationLCR,
    UE-Selected-MBMS-Service-Information.
    UE-AggregateMaximumBitRate,
    HSSICH-ReferenceSignal-InformationModifyLCR,
    TimeSlotMeasurementValueListLCR,
    MIMO-PowerOffsetForS-CPICHCapability,
    MIMO-PilotConfigurationExtension,
    TxDiversityOnDLControlChannelsByMIMOUECapability,
    Single-Stream-MIMO-Capability,
    ActivationInformation,
    Cell-Capability-Container,
    DormantModeIndicator,
    Additional-EDCH-Setup-Info.
    Additional-EDCH-Cell-Information-Response-List,
    Additional-EDCH-Cell-Information-To-Add-List,
    Additional-EDCH-FDD-Update-Information,
    TS0-CapabilityLCR,
    Out-of-Sychronization-Window,
    DCH-MeasurementOccasion-Information,
    Additional-EDCH-Cell-Information-Response-RLReconf-List,
    Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency,
    Additional-EDCH-Cell-Information-Response-RL-Add-List,
    PrecodingWeightSetRestriction,
    Non-Serving-RL-Preconfig-Setup,
    Non-Serving-RL-Preconfig-Info.
    Adaptive-Special-Burst-Power-CapabilityLCR,
    CPC-RecoveryReport
FROM NBAP-IEs
    PrivateIE-Container{},
```

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ProtocolExtensionContainer{},
    ProtocolIE-Container{},
    ProtocolIE-Single-Container{},
    ProtocolIE-ContainerList{},
    NBAP-PRIVATE-IES.
   NBAP-PROTOCOL-IES,
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers
    id-Active-Pattern-Sequence-Information,
    id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD,
    id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD,
    id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRgstTDD,
    id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRostTDD.
    id-AdjustmentRatio,
    id-AICH-Information,
    id-AICH-ParametersListIE-CTCH-ReconfRgstFDD,
    id-AlternativeFormatReportingIndicator,
    id-BCH-Information,
    id-BCCH-ModificationTime,
    id-bindingID,
    id-BlockingPriorityIndicator,
    id-BroadcastReference,
    id-Cause,
    id-CauseLevel-PSCH-ReconfFailure.
    id-CauseLevel-RL-AdditionFailureFDD.
    id-CauseLevel-RL-AdditionFailureTDD,
    id-CauseLevel-RL-ReconfFailure,
    id-CauseLevel-RL-SetupFailureFDD,
    id-CauseLevel-RL-SetupFailureTDD,
    id-CauseLevel-SyncAdjustmntFailureTDD,
    id-CCP-InformationItem-AuditRsp,
    id-CCP-InformationList-AuditRsp,
    id-CCP-InformationItem-ResourceStatusInd,
    id-CCTrCH-InformationItem-RL-FailureInd,
    id-CCTrCH-InformationItem-RL-RestoreInd,
    id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD,
    id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD,
    id-CCTrCH-Initial-DL-Power-RL-SetupRgstTDD,
    id-CellAdjustmentInfo-SyncAdjustmntRgstTDD,
    id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD,
    id-Cell-ERNTI-Status-Information,
    id-Cell-InformationItem-AuditRsp,
    id-Cell-InformationItem-ResourceStatusInd,
    id-Cell-InformationList-AuditRsp.
    id-CellParameterID,
    id-CellPortion-InformationItem-Cell-SetupRgstFDD,
    id-CellPortion-InformationList-Cell-SetupRqstFDD,
    id-CellPortion-InformationItem-Cell-ReconfRqstFDD,
    id-CellPortion-InformationList-Cell-ReconfRgstFDD,
    id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD,
    id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD,
    id-cellSyncBurstRepetitionPeriod,
    id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD,
```

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id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD,
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRgstTDD,
id-CellSyncBurstMeasInfoList-CellSyncReconfRastTDD.
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,
id-CellSyncInfo-CellSyncReprtTDD,
id-CellPortion-CapabilityLCR,
id-CFN.
id-CFNReportingIndicator,
id-C-ID,
id-Closed-Loop-Timing-Adjustment-Mode,
id-Common-EDCH-Capability,
id-Common-E-DCH-HSDPCCH-Capability,
id-Common-EDCH-MACdFlows-to-DeleteFDD.
id-Common-EDCH-System-InformationFDD,
id-Common-EDCH-System-Information-ResponseFDD,
id-Common-MACFlows-to-DeleteFDD,
id-CommonMeasurementAccuracy,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
id-CommonMeasurementObjectType-CM-Rsp,
id-CommonMeasurementType,
id-CommonPhysicalChannelID,
id-CommonPhysicalChannelType-CTCH-ReconfRgstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRgstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,
id-Common-UL-MACFlows-to-DeleteFDD,
id-CommunicationContextInfoItem-Reset,
id-CommunicationControlPortID,
id-CommunicationControlPortInfoItem-Reset,
id-Compressed-Mode-Deactivation-Flag,
id-ConfigurationGenerationID,
id-ContinuousPacketConnectivityDTX-DRX-Capability,
id-ContinuousPacketConnectivityDTX-DRX-Information,
id-ContinuousPacketConnectivityHS-SCCH-less-Capability,
id-ContinuousPacketConnectivityHS-SCCH-less-Information,
id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response,
id-ContinuousPacketConnectivity-DRX-CapabilityLCR,
id-ContinuousPacketConnectivity-DRX-InformationLCR,
id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR,
id-CPC-InformationLCR,
id-CPC-Information,
id-CRNC-CommunicationContextID,
id-CriticalityDiagnostics,
id-CSBTransmissionID,
id-CSBMeasurementID,
id-DCHs-to-Add-FDD,
id-DCHs-to-Add-TDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRgstTDD,
id-DCH-FDD-Information,
id-DCH-TDD-Information,
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id-DCH-Indicator-For-E-DCH-HSDPA-Operation,
id-DCH-InformationResponse.
id-DCH-RearrangeList-Bearer-RearrangeInd.
id-DSCH-RearrangeList-Bearer-RearrangeInd,
id-FDD-DCHs-to-Modify.
id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRgstFDD,
id-TDD-DCHs-to-Modify,
id-DedicatedMeasurementObjectTvpe-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DelayedActivation,
id-DelayedActivationList-RL-ActivationCmdFDD,
id-DelayedActivationList-RL-ActivationCmdTDD,
id-DelayedActivationInformation-RL-ActivationCmdFDD,
id-DelayedActivationInformation-RL-ActivationCmdTDD,
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD,
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationItem-RL-AdditionRgstTDD,
id-DL-DPCH-InformationList-RL-SetupRgstTDD,
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-ReconfRqstFDD,
id-DL-DPCH-Information-RL-SetupRgstFDD,
id-DL-DPCH-TimingAdjustment,
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD,
id-DL-PowerBalancing-Information,
id-DL-PowerBalancing-ActivationIndicator,
id-DL-ReferencePowerInformationItem-DL-PC-Rgst,
id-DL-PowerBalancing-UpdatedIndicator,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rgst,
id-DL-TPC-Pattern01Count,
id-DPC-Mode,
id-DPCHConstant,
id-DSCHs-to-Add-TDD,
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,
id-DSCH-InformationResponse,
id-DSCH-TDD-Information,
id-Dual-Band-Capability-Info,
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code,
id-E-AI-Capability,
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id-E-AGCH-FDD-Code-Information,
id-E-DCH-Capability,
id-E-DCH-TTI2ms-Capability.
id-E-DCH-SF-Capability,
id-E-DCH-HARO-Combining-Capability,
id-E-DCH-FDD-DL-Control-Channel-Information,
id-E-DCH-FDD-Information,
id-E-DCH-FDD-Information-Response,
id-E-DCH-FDD-Information-to-Modify,
id-E-DCH-FDD-Update-Information,
id-E-DCH-MACdFlows-to-Add,
id-E-DCH-MACdFlows-to-Delete,
id-E-DCH-RearrangeList-Bearer-RearrangeInd,
id-E-DCH-Resources-Information-AuditRsp,
id-E-DCH-Resources-Information-ResourceStatusInd.
id-E-DCH-RL-Indication.
id-E-DCH-RL-Set-ID,
id-E-DCH-Serving-Cell-Change-Info-Response,
id-E-DCH-CapacityConsumptionLaw,
id-E-DPCH-Information-RL-ReconfPrepFDD,
id-E-DPCH-Information-RL-ReconfRqstFDD,
id-E-DPCH-Information-RL-SetupRqstFDD,
id-E-DPCH-Information-RL-AdditionRegFDD,
id-E-RGCH-E-HICH-FDD-Code-Information,
id-ERACH-CM-Rqst,
id-ERACH-CM-Rsp,
id-ERACH-CM-Rprt,
id-End-Of-Audit-Sequence-Indicator,
id-Enhanced-FACH-Capability,
id-Enhanced-PCH-Capability,
id-Enhanced-UE-DRX-Capability,
id-Enhanced-UE-DRX-InformationFDD,
id-ExtendedPropagationDelay,
id-FACH-Information,
id-FACH-ParametersList-CTCH-ReconfRgstTDD,
id-FACH-ParametersList-CTCH-SetupRsp,
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-FACH-ParametersListIE-CTCH-SetupRgstFDD,
id-FACH-ParametersListIE-CTCH-SetupRgstTDD,
id-Fast-Reconfiguration-Mode,
id-Fast-Reconfiguration-Permission,
id-F-DPCH-Capability,
id-F-DPCH-Information-RL-ReconfPrepFDD,
id-F-DPCH-Information-RL-SetupRqstFDD,
id-F-DPCH-SlotFormat,
id-F-DPCH-SlotFormatCapability,
id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRost,
id-HSDSCH-Configured-Indicator,
id-HS-DSCH-Serving-Cell-Change-Info,
id-HS-DSCH-Serving-Cell-Change-Info-Response,
id-IndicationType-ResourceStatusInd,
id-InformationExchangeID,
id-InformationExchangeObjectType-InfEx-Rqst,
id-InformationExchangeObjectType-InfEx-Rsp,
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id-InformationExchangeObjectType-InfEx-Rprt,
id-InformationReportCharacteristics,
id-InformationType.
id-InitDL-Power,
id-Initial-DL-DPCH-TimingAdjustment,
id-Initial-DL-DPCH-TimingAdjustment-Allowed,
id-InnerLoopDLPCStatus,
id-IntStdPhCellSvncInfoItem-CellSvncReprtTDD.
id-IPDLParameter-Information-Cell-ReconfRgstFDD,
id-IPDLParameter-Information-Cell-SetupRqstFDD,
id-IPDLParameter-Information-Cell-ReconfRgstTDD,
id-IPDLParameter-Information-Cell-SetupRqstTDD,
id-IPMulticastIndication.
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD,
id-Limited-power-increase-information-Cell-SetupRgstFDD,
id-Local-Cell-ID,
id-Local-Cell-Group-InformationItem-AuditRsp,
id-Local-Cell-Group-InformationItem-ResourceStatusInd,
id-Local-Cell-Group-InformationItem2-ResourceStatusInd,
id-Local-Cell-Group-InformationList-AuditRsp,
id-Local-Cell-InformationItem-AuditRsp,
id-Local-Cell-InformationItem-ResourceStatusInd,
id-Local-Cell-InformationItem2-ResourceStatusInd,
id-Local-Cell-InformationList-AuditRsp.
id-AdjustmentPeriod,
id-MaxAdjustmentStep,
id-MaximumTransmissionPower,
id-Max-UE-DTX-Cycle,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MeasurementRecoveryBehavior,
id-MeasurementRecoveryReportingIndicator,
id-MeasurementRecoverySupportIndicator,
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,
id-MBMS-Capability,
id-MICH-CFN,
id-MICH-Information-AuditRsp.
id-MICH-Information-ResourceStatusInd,
id-MICH-Parameters-CTCH-ReconfRgstFDD,
id-MICH-Parameters-CTCH-ReconfRgstTDD,
id-MICH-Parameters-CTCH-SetupRgstFDD,
id-MICH-Parameters-CTCH-SetupRgstTDD,
id-MIMO-Capability,
id-MIMO-PilotConfiguration,
id-Modification-Period,
id-multipleRL-dl-DPCH-InformationList.
id-multipleRL-dl-DPCH-InformationModifyList,
id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-multiple-RL-Information-RL-ReconfPrepTDD,
id-multiple-RL-Information-RL-ReconfRgstTDD,
id-multipleRL-ul-DPCH-InformationList,
id-multipleRL-ul-DPCH-InformationModifyList,
id-NCyclesPerSFNperiod,
id-NeighbouringCellMeasurementInformation,
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id-NI-Information-NotifUpdateCmd,
id-NodeB-CommunicationContextID.
id-NRepetitionsPerCvclePeriod.
id-NumberOfReportedCellPortions,
id-NumberOfReportedCellPortionsLCR.
id-Paging-MACFlows-to-DeleteFDD,
id-P-CCPCH-Information.
id-P-CPICH-Information,
id-P-SCH-Information,
id-PCCPCH-Information-Cell-ReconfRqstTDD,
id-PCCPCH-Information-Cell-SetupRqstTDD,
id-PCH-Parameters-CTCH-ReconfRqstTDD,
id-PCH-Parameters-CTCH-SetupRsp,
id-PCH-ParametersItem-CTCH-ReconfRgstFDD.
id-PCH-ParametersItem-CTCH-SetupRgstFDD,
id-PCH-ParametersItem-CTCH-SetupRgstTDD,
id-PCH-Information,
id-PICH-ParametersItem-CTCH-ReconfRgstFDD,
id-PDSCH-Information-AddListIE-PSCH-ReconfRgst,
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PDSCH-RL-ID,
id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR,
id-PDSCHSets-AddList-PSCH-ReconfRqst,
id-PDSCHSets-DeleteList-PSCH-ReconfRast.
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,
id-PICH-Information.
id-PICH-Parameters-CTCH-ReconfRgstTDD,
id-PICH-ParametersItem-CTCH-SetupRgstTDD,
id-PLCCH-Information-AuditRsp,
id-PLCCH-Information-ResourceStatusInd,
id-PLCCH-Information-RL-ReconfPrepTDDLCR,
id-PLCCH-InformationList-AuditRsp,
id-PLCCH-InformationList-ResourceStatusInd,
id-PLCCH-Parameters-CTCH-ReconfRqstTDD,
id-PowerAdiustmentType,
id-Power-Local-Cell-Group-choice-CM-Rqst,
id-Power-Local-Cell-Group-choice-CM-Rsp,
id-Power-Local-Cell-Group-choice-CM-Rprt,
id-Power-Local-Cell-Group-InformationItem-AuditRsp,
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd,
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd,
id-Power-Local-Cell-Group-InformationList-AuditRsp,
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd,
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd,
id-Power-Local-Cell-Group-ID,
id-PRACH-Information,
id-PRACHConstant,
id-PRACH-ParametersItem-CTCH-SetupRqstTDD,
id-PRACH-ParametersListIE-CTCH-ReconfRgstFDD,
id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD,
id-PrimaryCCPCH-Information-Cell-SetupRgstFDD,
id-PrimaryCPICH-Information-Cell-ReconfRgstFDD,
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,
id-Primary-CPICH-Usage-for-Channel-Estimation,
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id-PrimarySCH-Information-Cell-ReconfRqstFDD,
id-PrimarySCH-Information-Cell-SetupRgstFDD.
id-PrimaryScramblingCode.
id-SCH-Information-Cell-ReconfRgstTDD,
id-SCH-Information-Cell-SetupRgstTDD,
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Timeslot-Format-PSCH-ReconfRast-LCR,
id-PUSCHConstant,
id-PUSCHSets-AddList-PSCH-ReconfRqst,
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,
id-RACH-Information.
id-RACH-Parameters-CTCH-SetupRsp.
id-RACH-ParametersItem-CTCH-SetupRgstFDD,
id-RACH-ParameterItem-CTCH-SetupRgstTDD,
id-ReferenceClockAvailability,
id-ReferenceSFNoffset,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-ResetIndicator,
id-RL-TD.
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rost,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-AdditionRqstFDD,
id-RL-informationItem-RL-DeletionRgst,
id-RL-InformationItem-RL-FailureInd,
id-RL-InformationItem-RL-PreemptRequiredInd,
id-RL-InformationItem-RL-ReconfPrepFDD,
id-RL-InformationItem-RL-ReconfRqstFDD,
id-RL-InformationItem-RL-RestoreInd,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRgstFDD,
id-RL-informationList-RL-DeletionRqst,
id-RL-InformationList-RL-PreemptRequiredInd,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationList-RL-ReconfRgstFDD,
id-RL-InformationList-RL-SetupRgstFDD,
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReady,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReady,
id-RL-InformationResponseList-RL-ReconfRsp.
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-Information-RL-AdditionRgstTDD,
id-RL-Information-RL-ReconfRgstTDD,
id-RL-Information-RL-ReconfPrepTDD,
id-RL-Information-RL-SetupRqstTDD,
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id-RL-ReconfigurationFailureItem-RL-ReconfFailure,
id-RL-Set-InformationItem-DM-Rort.
id-RL-Set-InformationItem-DM-Rsp.
id-RL-Set-InformationItem-RL-FailureInd.
id-RL-Set-InformationItem-RL-RestoreInd.
id-RL-Specific-DCH-Info,
id-RL-Specific-E-DCH-Info,
id-S-CCPCH-Information,
id-S-CCPCH-InformationListExt-AuditRsp,
id-S-CCPCH-InformationListExt-ResourceStatusInd,
id-S-CCPCH-LCR-InformationListExt-AuditRsp,
id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd,
id-S-CPICH-Information.
id-SCH-Information.
id-S-SCH-Information,
id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD,
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD,
id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD,
id-Secondary-CPICH-Information,
id-SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD,
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,
id-Secondary-CPICH-Information-Change,
id-SecondarySCH-Information-Cell-ReconfRqstFDD,
id-SecondarySCH-Information-Cell-SetupRgstFDD,
id-Semi-PersistentScheduling-CapabilityLCR,
id-SegmentInformationListIE-SystemInfoUpdate,
id-Serving-Cell-Change-CFN,
id-Serving-E-DCH-RL-ID,
id-SixteenOAM-UL-Capability,
id-SixtyfourQAM-DL-Capability,
id-SixtyfourQAM-DL-MIMO-Combined-Capability,
id-SFN.
id-SFNReportingIndicator,
id-ShutdownTimer,
id-SignallingBearerRequestIndicator,
id-Start-Of-Audit-Sequence-Indicator,
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,
id-E-DPCCH-Power-Boosting-Capability,
id-Synchronisation-Configuration-Cell-ReconfRgst,
id-Synchronisation-Configuration-Cell-SetupRqst,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH,
id-SyncFrameNumber,
id-SynchronisationReportType,
id-SynchronisationReportCharacteristics,
id-SyncReportType-CellSyncReprtTDD,
id-T-Cell,
id-TargetCommunicationControlPortID,
id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,
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id-timeslotInfo-CellSyncInitiationRqstTDD,
id-TimeslotISCPInfo.
id-TimingAdvanceApplied.
id-TnlOos.
id-TransmissionDiversityApplied,
id-transportlayeraddress,
id-Tstd-indicator.
id-UARFCNforNt,
id-UARFCNforNd,
id-UARFCNforNu,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRgstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-SetupRgstTDD,
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRgstFDD,
id-UL-DPCH-Information-RL-SetupRgstFDD,
id-UL-DPDCH-Indicator-For-E-DCH-Operation,
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD.
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD.
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD.
id-USCH-Information-Add,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
id-USCH-InformationResponse,
id-USCH-Information,
id-USCH-RearrangeList-Bearer-RearrangeInd,
id-DL-DPCH-LCR-Information-RL-SetupRgstTDD,
id-DwPCH-LCR-Information
id-DwPCH-LCR-InformationList-AuditRsp.
id-DwPCH-LCR-Information-Cell-SetupRgstTDD,
id-DwPCH-LCR-Information-Cell-ReconfRgstTDD,
id-DwPCH-LCR-Information-ResourceStatusInd,
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,
id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD,
id-FPACH-LCR-Information,
id-FPACH-LCR-Information-AuditRsp,
id-FPACH-LCR-InformationList-AuditRsp,
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id-FPACH-LCR-InformationList-ResourceStatusInd,
id-FPACH-LCR-Parameters-CTCH-SetupRostTDD.
id-FPACH-LCR-Parameters-CTCH-ReconfRgstTDD.
id-PCCPCH-LCR-Information-Cell-SetupRgstTDD,
id-PCH-Power-LCR-CTCH-SetupRgstTDD,
id-PCH-Power-LCR-CTCH-ReconfRgstTDD,
id-PICH-LCR-Parameters-CTCH-SetupRgstTDD,
id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD,
id-RL-InformationResponse-LCR-RL-SetupRspTDD
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD,
id-TimeSlot,
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD,
id-TimeslotISCP-LCR-InfoList-RL-SetupRastTDD.
id-TimeSlotLCR-CM-Rgst,
id-UL-DPCH-LCR-Information-RL-SetupRgstTDD,
id-DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD,
id-UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD,
id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD,
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD,
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-LCR-InformationModify-AddList,
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD.
id-UL-SIRTarget,
id-PDSCH-AddInformation-LCR-PSCH-ReconfRgst,
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRgst,
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRgst,
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRgst,
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRast,
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRgst,
id-PUSCH-Info-DM-Rast,
id-PUSCH-Info-DM-Rsp.
id-PUSCH-Info-DM-Rprt,
id-RL-InformationResponse-LCR-RL-AdditionRspTDD,
id-IPDLParameter-Information-LCR-Cell-SetupRgstTDD,
id-IPDLParameter-Information-LCR-Cell-ReconfRgstTDD,
id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst,
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRgst,
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst,
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRgst,
id-HS-PDSCH-TDD-Information-PSCH-ReconfRgst,
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRast,
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRgst,
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD,
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD,
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD,
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD,
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD,
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id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD,
id-NSubCyclesPerCyclePeriod-CellSyncReconfRastTDD.
id-DwPCH-Power,
id-AccumulatedClockupdate-CellSyncReprtTDD,
id-HSDPA-Capability.
id-HSDSCH-FDD-Information,
id-HSDSCH-Common-System-InformationFDD,
id-HSDSCH-Common-System-Information-ResponseFDD,
id-HSDSCH-FDD-Information-Response,
id-HSDSCH-Information-to-Modify,
id-HSDSCH-Information-to-Modify-Unsynchronised,
id-HSDSCH-MACdFlows-to-Add,
id-HSDSCH-MACdFlows-to-Delete.
id-HSDSCH-Paging-System-InformationFDD,
id-HSDSCH-Paging-System-Information-ResponseFDD,
id-HSDSCH-RearrangeList-Bearer-RearrangeInd,
id-HSDSCH-Resources-Information-AuditRsp,
id-HSDSCH-Resources-Information-ResourceStatusInd,
id-HSDSCH-RNTI,
id-HSDSCH-TDD-Information,
id-HSDSCH-TDD-Information-Response,
id-HSPDSCH-RL-ID,
id-HSSICH-Info-DM-Rprt,
id-HSSICH-Info-DM-Rast,
id-HSSICH-Info-DM-Rsp,
id-PrimCCPCH-RSCP-DL-PC-RgstTDD,
id-HSDSCH-FDD-Update-Information,
id-HSDSCH-TDD-Update-Information,
id-UL-Synchronisation-Parameters-LCR,
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD,
id-CCTrCH-Minimum-DL-Power-RL-SetupRastTDD,
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD,
id-CCTrCH-Minimum-DL-Power-RL-AdditionRgstTDD,
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD,
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD,
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD,
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD,
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD,
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD,
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRastTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRgstTDD,
id-TDD-TPC-DownlinkStepSize-RL-AdditionRgstTDD,
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD,
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD,
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD,
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD,
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD,
id-TimingAdjustmentValueLCR,
id-PrimaryCCPCH-RSCP-Delta,
```

```
id-Maximum-Target-ReceivedTotalWideBandPower,
id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp.
id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp.
id-SynchronisationIndicator,
id-Reference-ReceivedTotalWideBandPower.
id-Reference-ReceivedTotalWideBandPowerReporting,
id-Reference-ReceivedTotalWideBandPowerSupportIndicator,
id-Maximum-Target-ReceivedTotalWideBandPower-LCR,
id-multiple-PUSCH-InfoList-DM-Rsp,
id-multiple-PUSCH-InfoList-DM-Rprt,
id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio,
id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp,
id-PCCPCH-768-Information-Cell-SetupRgstTDD,
id-SCH-768-Information-Cell-SetupRgstTDD,
id-SCH-768-Information-Cell-ReconfRgstTDD,
id-PCCPCH-768-Information-Cell-ReconfRgstTDD,
id-P-CCPCH-768-Information-AuditRsp,
id-PICH-768-Information-AuditRsp,
id-PRACH-768-InformationList-AuditRsp,
id-SCH-768-Information-AuditRsp,
id-MICH-768-Information-AuditRsp,
id-CommonPhysicalChannelID768-CommonTrChDeletionReg,
id-MICH-768-Parameters-CTCH-ReconfRqstTDD,
id-PICH-768-Parameters-CTCH-SetupRgstTDD,
id-PICH-768-Parameters-CTCH-ReconfRqstTDD,
id-PRACH-768-Parameters-CTCH-SetupRgstTDD,
id-S-CCPCH-768-InformationList-AuditRsp,
id-S-CCPCH-768-Information-AuditRsp,
id-S-CCPCH-768-Parameters-CTCH-SetupRgstTDD,
id-S-CCPCH-768-Parameters-CTCH-ReconfRgstTDD,
id-S-CCPCH-768-Information-ResourceStatusInd,
id-P-CCPCH-768-Information-ResourceStatusInd.
id-PICH-768-Information-ResourceStatusInd,
id-PRACH-768-InformationList-ResourceStatusInd.
id-SCH-768-Information-ResourceStatusInd,
id-MICH-768-Information-ResourceStatusInd,
id-S-CCPCH-768-InformationList-ResourceStatusInd,
id-PRACH-768-Information,
id-UL-DPCH-768-Information-RL-SetupRgstTDD,
id-DL-DPCH-768-Information-RL-SetupRgstTDD,
id-DL-DPCH-InformationItem-768-RL-AdditionRgstTDD,
id-UL-DPCH-InformationItem-768-RL-AdditionRqstTDD,
id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD,
id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-768-InformationModify-AddItem,
id-UL-DPCH-768-InformationModify-AddList,
id-UL-Timeslot768-Information-RL-ReconfPrepTDD.
id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD,
id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD,
id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD,
id-DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD,
id-DPCH-ID768-DM-Rqst,
id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp,
```

```
id-DPCH-ID768-DM-Rsp,
id-DPCH-ID768-DM-Rort.
id-PDSCH-AddInformation-768-PSCH-ReconfRast.
id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst,
id-PUSCH-AddInformation-768-PSCH-ReconfRast.
id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst,
id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRgst,
id-hS-SCCH-Information-768-PSCH-ReconfRgst,
id-hS-SCCH-InformationModify-768-PSCH-ReconfRast,
id-tFCI-Presence,
id-E-RUCCH-InformationList-AuditRsp,
id-E-RUCCH-InformationList-ResourceStatusInd,
id-E-RUCCH-Information.
id-E-DCH-Information.
id-E-DCH-Information-Response,
id-E-DCH-Information-Reconfig,
id-E-PUCH-Information-PSCH-ReconfRgst,
id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRgst,
id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRgst,
id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst,
id-E-HICH-Information-PSCH-ReconfRqst,
id-E-DCH-TDD-CapacityConsumptionLaw,
id-E-HICH-TimeOffset,
id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells.
id-E-DCH-Serving-RL-ID,
id-E-RUCCH-768-InformationList-AuditRsp,
id-E-RUCCH-768-InformationList-ResourceStatusInd,
id-E-RUCCH-768-Information,
id-E-DCH-768-Information,
id-E-DCH-768-Information-Reconfig,
id-E-PUCH-Information-768-PSCH-ReconfRgst,
id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst,
id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst,
id-E-HICH-Information-768-PSCH-ReconfRqst,
id-RTWP-ReportingIndicator,
id-RTWP-CellPortion-ReportingIndicator,
id-Received-Scheduled-EDCH-Power-Share-Value,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value,
id-Received-Scheduled-EDCH-Power-Share,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion,
id-ueCapability-Info,
id-MAChs-ResetIndicator,
id-SYNC-UL-Partition-LCR,
id-E-DCH-LCR-Information,
id-E-DCH-LCR-Information-Reconfig.
id-E-PUCH-Information-LCR-PSCH-ReconfRqst,
id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast,
id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst,
id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst,
id-E-HICH-TimeOffsetLCR,
id-HSDSCH-MACdPDU-SizeCapability,
id-ModulationPO-MBSFN,
```

```
id-Secondary-CCPCH-SlotFormat-Extended,
id-MBSFN-Only-Mode-Indicator-Cell-SetupRastTDD-LCR.
id-Time-Slot-Parameter-ID.
id-MBSFN-Only-Mode-Capability,
id-MBSFN-Cell-ParameterID-Cell-SetupRgstTDD.
id-MBSFN-Cell-ParameterID-Cell-ReconfRgstTDD,
id-S-CCPCH-Modulation,
id-TimeSlotConfigurationList-LCR-CTCH-SetupRgstTDD,
id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp,
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp,
id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD,
id-UARFCN-Adjustment,
id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd,
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd,
id-UPPCHPositionLCR.
id-UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD,
id-UPPCH-LCR-InformationList-AuditRsp,
id-UPPCH-LCR-InformationItem-AuditRsp,
id-UPPCH-LCR-InformationList-ResourceStatusInd,
id-UPPCH-LCR-InformationItem-ResourceStatusInd,
id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst,
id-multipleFreq-HS-DSCH-Resources-InformationList-AuditRsp,
id-multipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd,
id-UARFCNSpecificCauseList.id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD.
id-MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst,
id-Extended-HS-SCCH-ID.
id-Extended-HS-SICH-ID,
id-HSSICH-InfoExt-DM-Rgst,
id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst,
id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRgst,
id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRgst,
id-PowerControlGAP,
id-PowerControlGAP-For-CellFACHLCR.
id-IdleIntervalInformation,
id-MBSFN-SpecialTimeSlot-LCR,
id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp,
id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd,
id-MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst,
id-MultipleFreg-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst,
id-Extended-E-HICH-ID-TDD
id-E-DCH-MACdPDU-SizeCapability,
id-E-HICH-TimeOffset-Extension,
id-MultipleFreq-E-HICH-TimeOffsetLCR,
id-PLCCH-parameters,
id-E-RUCCH-parameters,
id-E-RUCCH-768-parameters,
id-HS-Cause,
id-E-Cause.
id-AdditionalTimeSlotListLCR,
id-AdditionalMeasurementValueList,
id-HSDSCH-Paging-System-InformationLCR,
id-HSDSCH-Paging-System-Information-ResponseLCR,
id-HSDSCH-Common-System-InformationLCR,
id-HSDSCH-Common-System-Information-ResponseLCR,
```

```
id-Paging-MACFlows-to-DeleteLCR,
id-Enhanced-UE-DRX-CapabilityLCR.
id-Enhanced-UE-DRX-InformationLCR.
id-Common-EDCH-MACdFlows-to-DeleteLCR.
id-Common-EDCH-System-InformationLCR,
id-Common-EDCH-System-Information-ResponseLCR,
id-Common-MACFlows-to-DeleteLCR,
id-Common-UL-MACFlows-to-DeleteLCR,
id-HSDSCH-PreconfigurationSetup,
id-HSDSCH-PreconfigurationInfo,
id-NoOfTargetCellHS-SCCH-Order,
id-EnhancedHSServingCC-Abort,
id-GANSS-Time-ID.
id-Additional-HS-Cell-Information-RL-Setup.
id-Additional-HS-Cell-Information-Response,
id-Additional-HS-Cell-Information-RL-Addition,
id-Additional-HS-Cell-Change-Information-Response,
id-Additional-HS-Cell-Information-RL-Reconf-Prep,
id-Additional-HS-Cell-Information-RL-Reconf-Reg,
id-Additional-HS-Cell-Information-RL-Param-Upd,
id-Multi-Cell-Capability-Info.
id-MinimumReducedE-DPDCH-GainFactor,
id-TMB-Parameters.
id-E-RNTI,
id-E-DCH-Semi-PersistentScheduling-Information-LCR,
id-HS-DSCH-Semi-PersistentScheduling-Information-LCR,
id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst,
id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst,
id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst-Ext,
id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR,
id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR,
id-HSSICH-ReferenceSignal-InformationLCR.
id-UE-Selected-MBMS-Service-Information,
id-HSSICH-ReferenceSignal-InformationModifyLCR,
id-TimeSlotMeasurementValueListLCR,
id-MIMO-Power-Offset-For-S-CPICH-Capability.
id-MIMO-PilotConfigurationExtension,
id-TxDiversityOnDLControlChannelsByMIMOUECapability,
id-UE-AggregateMaximumBitRate,
id-Single-Stream-MIMO-Capability,
id-ActivationInformation,
id-Cell-Capability-Container,
id-DormantModeIndicator.
id-Additional-EDCH-Cell-Information-RL-Setup-Reg.
id-Additional-EDCH-Cell-Information-Response,
id-Additional-EDCH-Cell-Information-RL-Add-Reg,
id-Additional-EDCH-Cell-Information-Response-RL-Add,
id-Additional-EDCH-Cell-Information-RL-Reconf-Prep,
id-Additional-EDCH-Cell-Information-RL-Reconf-Reg,
id-Additional-EDCH-Cell-Information-Bearer-Rearrangement,
id-Additional-EDCH-Cell-Information-RL-Param-Upd,
id-Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst,
id-E-HICH-TimeOffset-ReconfFailureTDD,
```

```
id-Common-System-Information-ResponseLCR,
id-TS0-CapabilityLCR,
id-HSSCCH-TPC-StepSize,
id-Out-of-Sychronization-Window,
id-DCH-MeasurementOccasion-Information,
id-Additional-EDCH-Cell-Information-ResponseRLReconf,
id-PrecodingWeightSetRestriction,
id-HSDSCH-RNTI-For-FACH,
id-E-RNTI-For-FACH,
id-Treset-Usage-Indicator,
id-Non-Serving-RL-Preconfig-Info,
id-Non-Serving-RL-Preconfig-Setup,
id-Non-Serving-RL-Preconfig-Removal,
id-Adaptive-Special-Burst-Power-CapabilityLCR,
id-CPC-RecoveryReport,
maxNrOfCCTrCHs,
maxNrOfCellSyncBursts,
maxNrOfCodes,
maxNrOfDCHs,
maxNrOfDLTSs.
maxNrOfDLTSLCRs,
maxNrOfDPCHs,
maxNrOfDPCHsPerRL-1,
maxNrOfDPCHLCRs,
maxNrOfDPCHsLCRPerRL-1,
maxNrOfDPCHs768,
maxNrOfDPCHs768PerRL-1,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLs-1,
maxNrOfRLs-2,
maxNrOfRLSets,
maxNrOfPDSCHs.
maxNrOfPUSCHs,
maxNrOfPUSCHs-1,
maxNrOfPRACHLCRs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfReceptsPerSyncFrame,
maxNrOfSCCPCHs,
maxNrOfSCCPCHsinExt,
maxNrOfSCCPCHLCRs,
maxNrOfSCCPCHsLCRinExt,
maxNrOfSCCPCHs768.
maxNrOfULTSs.
maxNrOfULTSLCRs,
maxNrOfUSCHs,
maxFACHCell,
maxFPACHCell,
maxRACHCell,
maxPLCCHCell,
maxPRACHCell,
```

```
maxSCCPCHCell,
   maxSCCPCHCell768,
   maxSCCPCHCellinExt.
   maxSCCPCHCellinExtLCR,
   maxSCPICHCell.
   maxCellinNodeB,
   maxCCPinNodeB.
   maxCommunicationContext,
   maxLocalCellinNodeB,
   maxNrOfSlotFormatsPRACH,
   maxIB,
   maxIBSEG,
   maxNrOfCellPortionsPerCell,
   maxNrOfHSSCCHs,
   maxNrOfHSSICHs,
   maxNrOfHSSICHs-1,
   maxNrOfHSPDSCHs,
   maxNrOfHSPDSCHs768
   maxNrOfSyncFramesLCR,
   maxNrOfReceptionsperSyncFrameLCR,
   maxNrOfSyncDLCodesLCR,
   maxNrOfMACdFlows,
   maxNrOfEDCHMACdFlows,
   maxE-RUCCHCell,
   maxNrOfE-PUCHSlots.
   maxNrOfEAGCHs,
   maxNrOfEAGCHCodes,
   maxNrOfE-PUCHSlotsLCR,
   maxNrOfEPUCHcodes,
   maxNrOfEHICHs,
   maxFrequencyinCell,
   maxFrequencyinCell-1,
   maxNrOfHSSCCHsinExt,
   maxNrOfHSSCCHsLCR,
   maxNrOfEAGCHsLCR,
   maxNrOfEHICHsLCR,
   maxNrOfHSDSCH-1,
   maxNrOfEDCH-1
FROM NBAP-Constants;
  *****************
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
__ *********************
CommonTransportChannelSetupRequestFDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                          {{CommonTransportChannelSetupRequestFDD-IEs}},
   protocolIEs
                          ProtocolExtensionContainer
                                                          {{CommonTransportChannelSetupRequestFDD-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL,
CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
```

```
CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::=
           id-C-ID
                                                                CRITICALITY reject
                                                                                        TYPE
                                                                                                C-ID
                                                                                                                                        PRESENCE
mandatory
            id-ConfigurationGenerationID
    { ID
                                                                                        TYPE
                                                                                                 ConfigurationGenerationID
                                                                                                                                        PRESENCE
                                                                CRITICALITY reject
mandatorv
    { ID
           id-CommonPhysicalChannelType-CTCH-SetupRqstFDD
                                                                CRITICALITY ignore
                                                                                        TYPE
                                                                                                 CommonPhysicalChannelType-CTCH-SetupRqstFDD
    PRESENCE
               mandatory },
    . . .
CommonPhysicalChannelType-CTCH-SetupRgstFDD ::= CHOICE {
    secondary-CCPCH-parameters
                                    Secondary-CCPCH-CTCH-SetupRqstFDD,
    pRACH-parameters
                                    PRACH-CTCH-SetupRgstFDD,
    notUsed-pCPCHes-parameters
                                    NULL,
Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset
                                            FDD-S-CCPCH-Offset,
    dl-ScramblingCode
                                            DL-ScramblingCode
                                                                                                                                OPTIONAL,
    -- This IE shall be present if the PCH Parameters IE is not present
    fdd-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
    secondary-CCPCH-SlotFormat
                                            SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                            TFCI-Presence
                                                                                                                                OPTIONAL,
    -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17 or if 3.84Mcps TDD IMB is used
    multiplexingPosition
                                            MultiplexingPosition,
    powerOffsetInformation
                                            PowerOffsetInformation-CTCH-SetupRgstFDD,
    sTTD-Indicator
                                            STTD-Indicator,
    fACH-Parameters
                                            FACH-ParametersList-CTCH-SetupRqstFDD
                                                                                                                                OPTIONAL,
                                            PCH-Parameters-CTCH-SetupRqstFDD
                                                                                                                                OPTIONAL,
    pCH-Parameters
                                            ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-MICH-Parameters-CTCH-SetupRqstFDD
                                                        CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstFDD
                                                                                                                                PRESENCE optional
     ID id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRqstFDD
                                                        CRITICALITY reject EXTENSION FDD-S-CCPCH-FrameOffset
    PRESENCE optional }|
    { ID id-ModulationPO-MBSFN
                                                        CRITICALITY reject EXTENSION ModulationPO-MBSFN
    PRESENCE optional }
    { ID id-Secondary-CCPCH-SlotFormat-Extended
                                                        CRITICALITY reject EXTENSION Secondary-CCPCH-SlotFormat-Extended
                                                                                                                                        PRESENCE
optional
    { ID id-IMB-Parameters
                                                        CRITICALITY reject EXTENSION IMB-Parameters
                                                                                                                                        PRESENCE
optional },
    . . .
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
                                            PowerOffset,
    pO1-ForTFCI-Bits
```

```
pO3-ForPilotBits
                                        PowerOffset,
   iE-Extensions
                                        ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRgstFDD-ExtIEs} } OPTIONAL,
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}
FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD
                                                                                                                    PRESENCE mandatory }
FACH-ParametersListIE-CTCH-SetupRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRgstFDD
FACH-ParametersItem-CTCH-SetupRgstFDD ::= SEQUENCE {
                                    CommonTransportChannelID,
   commonTransportChannelID
   transportFormatSet
                                    TransportFormatSet,
   toAWS
                                    ToAWS,
   toAWE
                                    ToAWE,
   maxFACH-Power
                                    DL-Power,
                                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
FACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          id-bindingID
                                           CRITICALITY ignore
                                                                 EXTENSION
                                                                            BindingID
                                                                                                             PRESENCE optional
          id-transportlayeraddress
                                                                            TransportLayerAddress
                                                                                                             PRESENCE optional
     ID
                                           CRITICALITY ignore
                                                                 EXTENSION
                                                                                                             PRESENCE optional
     ID
          id-TnlOos
                                           CRITICALITY ignore
                                                                 EXTENSION
                                                                            Tnl0os
          id-BroadcastReference
                                           CRITICALITY ignore
                                                                 EXTENSION
                                                                            BroadcastReference
     TD
   PRESENCE optional }
          id-IPMulticastIndication
                                           CRITICALITY ignore
                                                                            IPMulticastIndication
   { ID
                                                                 EXTENSION
                                                                                                             PRESENCE optional
   . . .
PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID.
   transportFormatSet
                                    TransportFormatSet,
   toAWS
                                    ToAWS,
   toAWE
                                    ToAWE,
   pCH-Power
                                    DL-Power,
   pICH-Parameters
                                    PICH-Parameters-CTCH-SetupRgstFDD,
   iE-Extensions
                                    ProtocolExtensionContainer { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                    OPTIONAL,
   . . .
```

```
PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
     ID
           id-bindingID
                                               CRITICALITY ignore
                                                                      EXTENSION
                                                                                  BindingID
                                                                                                                  PRESENCE optional
     ID
           id-transportlayeraddress
                                               CRITICALITY ignore
                                                                      EXTENSION
                                                                                  TransportLayerAddress
                                                                                                                  PRESENCE optional
     ID
           id-TnlOos
                                               CRITICALITY ignore
                                                                      EXTENSION
                                                                                  TnlOos
                                                                                                                  PRESENCE optional
    . . .
PICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                               FDD-DL-ChannelisationCodeNumber.
    pICH-Power
                                               PICH-Power,
   pICH-Mode
                                               PICH-Mode,
    sTTD-Indicator
                                               STTD-Indicator,
    iE-Extensions
                                               ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                                    OPTIONAL.
PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                               FDD-DL-ChannelisationCodeNumber.
    mICH-Power
                                               PICH-Power,
   mICH-Mode
                                               MICH-Mode,
    sTTD-Indicator
                                               STTD-Indicator,
    iE-Extensions
                                               ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                                    OPTIONAL,
MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                      CommonPhysicalChannelID,
    scramblingCodeNumber
                                      ScramblingCodeNumber,
                                      TFCS,
    tFCS
    preambleSignatures
                                      PreambleSignatures,
    allowedSlotFormatInformation
                                      AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
    rACH-SubChannelNumbers
                                      RACH-SubChannelNumbers,
    ul-punctureLimit
                                      PunctureLimit,
    preambleThreshold
                                      PreambleThreshold,
    rACH-Parameters
                                      RACH-Parameters-CTCH-SetupRqstFDD,
    aICH-Parameters
                                      AICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions
                                      OPTIONAL,
PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
SetupRastFDD
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEOUENCE {
   rACHSlotFormat
                    RACH-SlotFormat.
                    ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                         OPTIONAL,
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}
RACH-ParametersIE-CTCH-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
   RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                          CommonTransportChannelID,
   transportFormatSet
                                          TransportFormatSet,
                                          iE-Extensions
                                                                                                                      OPTIONAL,
   . . .
RACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID
          id-bindingID
                                         CRITICALITY ignore
                                                               EXTENSION
                                                                         BindingID
                                                                                                     PRESENCE optional
          id-transportlayeraddress
     ID
                                         CRITICALITY ignore
                                                               EXTENSION
                                                                         TransportLayerAddress
                                                                                                     PRESENCE optional
          id-TnlOos
    ID
                                          CRITICALITY ignore
                                                               EXTENSION
                                                                         Tnl0os
                                                                                                     PRESENCE optional
AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   aICH-TransmissionTiming
                                          AICH-TransmissionTiming,
   fdd-dl-ChannelisationCodeNumber
                                          FDD-DL-ChannelisationCodeNumber,
   aICH-Power
                                          AICH-Power,
                                         STTD-Indicator,
   sTTD-Indicator
   iE-Extensions
                                          ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                      OPTIONAL,
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
  ******************
CommonTransportChannelSetupRequestTDD ::= SEQUENCE {
```

```
{{CommonTransportChannelSetupRequestTDD-IEs}},
                         ProtocolIE-Container
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer
                                                   {{CommonTransportChannelSetupRequestTDD-Extensions}}
                                                                                                             OPTIONAL.
CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-C-ID
                                                      CRITICALITY reject TYPE C-ID
                                                                                                                    PRESENCE mandatory
     ID
          id-ConfigurationGenerationID
                                                      CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                    PRESENCE mandatory
          ID
   PRESENCE
              mandatory }.
   . . .
CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
   secondary-CCPCH-parameters
                                           Secondary-CCPCH-CTCH-SetupRqstTDD,
   pRACH-parameters
                                           PRACH-CTCH-SetupRqstTDD,
   extension-CommonPhysicalChannelType-CTCH-SetupRgstTDD Extension-CommonPhysicalChannelType-CTCH-SetupRgstTDD
Extension-CommonPhysicalChannelType-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ Extension-CommonPhysicalChannelType-CTCH-SetupRgstTDDIE }}
Extension-CommonPhysicalChannelType-CTCH-SetupRgstTDDIE NBAP-PROTOCOL-IES ::= {
                                CRITICALITY ignore TYPE PLCCH-parameters
    ID id-PLCCH-parameters
                                                                             PRESENCE mandatory }
    ID id-E-RUCCH-parameters
                                CRITICALITY ignore TYPE E-RUCCH-parameters
                                                                            PRESENCE mandatory }
    Secondary-CCPCH-CTCH-SetupRqstTDD ::= SEQUENCE {
   sCCPCH-CCTrCH-ID
                                           CCTrCH-ID, -- For DL CCTrCH supporting one or several Secondary CCPCHs
                                                       -- For DL CCTrCH supporting one or several Secondary CCPCHs
   tFCS
                                           TFCS,
                                           TFCI-Coding,
   tFCI-Coding
   punctureLimit
                                           PunctureLimit,
   secondaryCCPCH-parameterList
                                           Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
   fACH-ParametersList
                                           FACH-ParametersList-CTCH-SetupRgstTDD
                                                                                    OPTIONAL,
                                           PCH-Parameters-CTCH-SetupRqstTDD
                                                                                    OPTIONAL,
   pCH-Parameters
                                           ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRgstTDD-ExtIEs}}
   iE-Extensions
                                                                                                                           OPTIONAL,
   . . .
Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Tstd-indicator
                                                      CRITICALITY reject EXTENSION TSTD-Indicator
                                                                                                                           PRESENCE
optional }|
    { ID id-MICH-Parameters-CTCH-SetupRqstTDD
                                                      CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstTDD
                                                                                                                           PRESENCE
optional
   { ID id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-SetupRqstTDD
       PRESENCE optional }|
```

midambleShiftLCR

```
-- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be established.
    { ID id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRgstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-LCR-parameterExtendedList-CTCH-
SetupRast.TDD
                   PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHLCRs SCCPCHs are to be established.
    { ID id-S-CCPCH-768-Parameters-CTCH-SetupRgstTDD
                                                        CRITICALITY reject EXTENSION Secondary-CCPCH-768-parameterList-CTCH-SetupRqstTDD
    PRESENCE optional }
    { ID id-S-CCPCH-Modulation
                                                        CRITICALITY reject EXTENSION ModulationMBSFN
           PRESENCE optional } -- Applicable to 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    { ID id-TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD
    PRESENCE optional }
    { ID id-UARFCNforNt
                          CRITICALITY reject EXTENSION UARFON
                                                                    PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of Secondary Frequency on which SCCPCH to be set
up
Secondary-CCPCH-parameterList-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRgstTDD }}
Secondary-CCPCH-parameterListIEs-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE optional } |
    { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD
    PRESENCE optional }
Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD
Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    tdd-ChannelisationCode
                                             TDD-ChannelisationCode,
    timeslot
                                             TimeSlot,
   midambleShiftandBurstType
                                             MidambleShiftAndBurstType,
    tdd-PhysicalChannelOffset
                                             TDD-PhysicalChannelOffset,
                                             RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                             RepetitionLength,
    s-CCPCH-Power
                                             DL-Power,
   iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs} }
   OPTIONAL,
Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-tFCI-Presence
                                                                                           PRESENCE optional },
                                             CRITICALITY notify EXTENSION TFCI-Presence
Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-
SetupRqstTDD
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRgstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                             TDD-ChannelisationCodeLCR,
    timeslotLCR
                                             TimeSlotLCR,
```

MidambleShiftLCR,

```
-- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, NodeB shall ignore the contents of this IE.
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset,
    repetitionPeriod
                                              RepetitionPeriod.
    repetitionLength
                                              RepetitionLength,
    s-CCPCH-Power
                                              DL-Power.
    s-CCPCH-TimeSlotFormat-LCR
                                              TDD-DL-DPCH-TimeSlotFormat-LCR,
                                              ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-MBSFN-SpecialTimeSlot-LCR
                                                 CRITICALITY ignore
                                                                        EXTENSION TimeslotLCR-Extension
                                                                                                                          PRESENCE optional },
    -- Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot (TS 25.221 [19]). The IE 'Time Slot LCR' shall be
ignored if this IE appears
Secondary-CCPCH-768-parameterList-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-parameterItem-CTCH-
SetupRastTDD
Secondary-CCPCH-768-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID768
                                             CommonPhysicalChannelID768,
    tdd-ChannelisationCode768
                                              TDD-ChannelisationCode768.
    timeslot
                                              TimeSlot,
    tFCI-Presence768
                                              TFCI-Presence
                                                                 OPTIONAL.
                                              MidambleShiftAndBurstType768,
    midambleShiftandBurstType768
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset,
    repetitionPeriod
                                              RepetitionPeriod,
                                              RepetitionLength,
    repetitionLength
    s-CCPCH-Power
                                              DL-Power,
                                              ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-768-CTCH-SetupRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
Secondary-CCPCH-parameterItem-768-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}
FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD
FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                          CommonTransportChannelID,
   fACH-CCTrCH-ID
                                          CCTrCH-ID,
    dl-TransportFormatSet
                                          TransportFormatSet,
                                          ToAWS,
    toAWS
    toAWE
                                          TOAWE,
```

```
iE-Extensions
                                                                                                                    OPTIONAL,
FACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
         id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power
                                                                                                   PRESENCE optional }|
   -- Applicable to 1.28Mcps TDD only
   { ID id-bindingID
                                            CRITICALITY ignore EXTENSION BindingID
                                                                                                   PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                            CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                   PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
                                                                                                   PRESENCE optional } |
                                            CRITICALITY ignore EXTENSION
   -- Shall be ignored if bearer establishment with ALCAP.
         id-BroadcastReference
                                            CRITICALITY ignore EXTENSION
                                                                        BroadcastReference
                                                                                                   PRESENCE
                                                                                                             optional
         id-IPMulticastIndication
                                                                       IPMulticastIndication
   { ID
                                            CRITICALITY ignore EXTENSION
                                                                                                   PRESENCE
                                                                                                             optional
PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}
PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                     CommonTransportChannelID,
   pCH-CCTrCH-ID
                                     CCTrCH-ID,
   dl-TransportFormatSet
                                     TransportFormatSet, -- For the DL.
   toAWS
                                     ToAWS,
   t.oAWE
                                     ToAWE,
   pICH-Parameters
                                     PICH-Parameters-CTCH-SetupRgstTDD,
                                     ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
   . . .
PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                                                                                                             PRESENCE optional
     ID id-PCH-Power-LCR-CTCH-SetupRqstTDD
                                             CRITICALITY reject
                                                               EXTENSION DL-Power
     ID id-bindingID
                                             CRITICALITY ignore
                                                               EXTENSION BindingID
                                                                                                             PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
     ID id-transportlayeraddress
                                             CRITICALITY ignore
                                                               EXTENSION TransportLayerAddress
                                                                                                             PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
     PRESENCE optional
     ID id-TnlOos
                                             CRITICALITY ignore EXTENSION ThlOos
                                                                                                             PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}
```

```
PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::=
      ID id-PICH-ParametersItem-CTCH-SetupRqstTDD
                                                   CRITICALITY reject TYPE PICH-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional }
      ID id-PICH-LCR-Parameters-CTCH-SetupRgstTDD
                                                    CRITICALITY reject TYPE PICH-LCR-Parameters-CTCH-SetupRgstTDD PRESENCE optional }
PICH-ParametersItem-CTCH-SetupRgstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    timeSlot
                                            TimeSlot,
    midambleshiftAndBurstType
                                            MidambleShiftAndBurstType,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pagingIndicatorLength
                                            PagingIndicatorLength,
    pICH-Power
                                            PICH-Power,
    iE-Extensions
                                            ProtocolExtensionContainer
                                                                        { { PICH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
    . . .
PICH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-LCR-Parameters-CTCH-SetupRostTDD ::= SEOUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pagingIndicatorLength
                                            PagingIndicatorLength,
    pICH-Power
                                            PICH-Power,
    second-TDD-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
                                            ProtocolExtensionContainer { { PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
PICH-LCR-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
           id-Tstd-indicator
                                        CRITICALITY reject
                                                                EXTENSION TSTD-Indicator
                                                                                                 PRESENCE
                                                                                                                     optional
    -- Applicable to 1.28 Mcps TDD only
PICH-768-ParametersItem-CTCH-SetupRgstTDD ::= SEOUENCE {
                                            CommonPhysicalChannelID768,
    commonPhysicalChannelID768
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768.
    timeSlot
                                            TimeSlot,
    midambleshiftAndBurstType78
                                            MidambleShiftAndBurstType768,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pagingIndicatorLength
                                            PagingIndicatorLength,
    pICH-Power
                                            PICH-Power,
```

```
ProtocolExtensionContainer { { PICH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                  OPTIONAL,
PICH-768-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
MICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                          TDD-PhysicalChannelOffset,
   repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
   notificationIndicatorLength
                                          NotificationIndicatorLength,
   mICH-Power
                                          PICH-Power,
   mICH-TDDOption-Specific-Parameters
                                          MICH-TDDOption-Specific-Parameters-CTCH-SetupRgstTDD,
                                          ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-TDDOption-Specific-Parameters-CTCH-SetupRqstTDD ::= CHOICE
   hCR-TDD
                                          MICH-HCR-Parameters-CTCH-SetupRgstTDD,
   1CR-TDD
                                          MICH-LCR-Parameters-CTCH-SetupRgstTDD,
    cHipRate768-TDD
                                          MICH-768-Parameters-CTCH-SetupRqstTDD
MICH-HCR-Parameters-CTCH-SetupRgstTDD ::= SEQUENCE {
    tdd-ChannelisationCode
                                          TDD-ChannelisationCode,
   timeSlot
                                          TimeSlot,
   midambleshiftAndBurstType
                                          MidambleShiftAndBurstType,
   iE-Extensions
                                          ProtocolExtensionContainer { { MICH-HCR-Parameters-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
MICH-HCR-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
   tdd-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR,
   timeSlotLCR
                                          TimeSlotLCR,
   midambleShiftLCR
                                          MidambleShiftLCR,
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, NodeB shall ignore the contents of this IE.
    second-TDD-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR,
    tSTD-Indicator
                                          TSTD-Indicator,
   iE-Extensions
                                          OPTIONAL,
```

```
MICH-LCR-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
       { ID id-MBSFN-SpecialTimeSlot-LCR
                                                                                           CRITICALITY ignore
                                                                                                                                      EXTENSION TimeslotLCR-Extension
                                                                                                                                                                                                                                  PRESENCE optional }.
       -- Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot (TS 25.221 [19]). The IE 'Time Slot LCR' shall be
ignored if this IE appears
MICH-768-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
       tdd-ChannelisationCode768
                                                                             TDD-ChannelisationCode768.
       timeSlot
                                                                             TimeSlot,
       midambleshiftAndBurstType768
                                                                             MidambleShiftAndBurstType768,
       iE-Extensions
                                                                             ProtocolExtensionContainer { { MICH-768-Parameters-CTCH-SetupRgstTDD-ExtIEs } }
                                                                                                                                                                                                                                               OPTIONAL.
MICH-768-Parameters-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD
TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD ::= SEQUENCE {
       timeslotLCR
                                                                             TimeSlotLCR,
       timeslotLCR-Parameter-ID
                                                                             CellParameterID,
       iE-Extensions
                                                                             ProtocolExtensionContainer { TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD-ExtIEs} }
       OPTIONAL,
       . . .
TimeSlotConfigurationItem-LCR-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-parameterExtendedList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCH-parameterItem-CTCH-
SetupRastTDD
       -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be established.
\texttt{Secondary-CCPCH-LCR-parameterExtendedList-CTCH-SetupRqstTDD} \ ::= \ \texttt{SEQUENCE} \ (\texttt{SIZE} \ (\texttt{1..maxNrOfSCCPCHsLCRinExt})) \ \texttt{OF} \ \texttt{Secondary-CCPCH-LCR-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-parameterItem-paramete
CTCH-SetupRastTDD
       -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHLCRs SCCPCHs are to be established.
PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
       pRACH-Parameters-CTCH-SetupRqstTDD
                                                                                     PRACH-Parameters-CTCH-SetupRqstTDD,
      iE-Extensions
                                                                                     OPTIONAL,
PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          ID id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-SetupRgstTDD
                                                                                                                                                                                                                                  PRESENCE optional
       -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
          PRESENCE optional
```

```
PRACH-Parameters-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRgstTDD }}
PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-PRACH-ParametersItem-CTCH-SetupRqstTDD
                                             CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRqstTDD
                                                                                                              PRESENCE optional } |
     ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-SetupRqstTDD
                                                                                                              PRESENCE optional }
PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                         CommonPhysicalChannelID,
   t.FCS
                                         TFCS,
   timeslot
                                         TimeSlot,
   tdd-ChannelisationCode
                                         TDD-ChannelisationCode,
   maxPRACH-MidambleShifts
                                         MaxPRACH-MidambleShifts,
   pRACH-Midamble
                                         PRACH-Midamble,
                                         RACH-Parameter-CTCH-SetupRgstTDD,
   rACH
                                         ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameter-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRgstTDD }}
RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                         CommonTransportChannelID,
   uL-TransportFormatSet
                                         TransportFormatSet, -- For the UL
   iE-Extensions
                                         OPTIONAL,
RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-bindingID
                                  CRITICALITY ignore EXTENSION BindingID
                                                                                   PRESENCE optional }
      -- Shall be ignored if bearer establishment with ALCAP.
   PRESENCE optional } |
      -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-TnlOos
                                  CRITICALITY ignore EXTENSION TnlQos
                                                                                   PRESENCE optional \}.
   -- Shall be ignored if bearer establishment with ALCAP.
PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
```

```
commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    t.FCS
                                               TFCS.
    timeslotLCR
                                               TimeSlotLCR.
    tdd-ChannelisationCodeLCR
                                               TDD-ChannelisationCodeLCR,
    midambleShiftLCR
                                               MidambleShiftLCR.
    rACH
                                               RACH-Parameter-CTCH-SetupRgstTDD,
                                               ProtocolExtensionContainer { { PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    EXTENSION UARFON
                                                                           PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of secondary on which PRACH to be set up.
PRACH-768-ParametersItem-CTCH-SetupRgstTDD ::= SEQUENCE
                                               CommonPhysicalChannelID768,
    commonPhysicalChannelID768
    t.FCS
                                               TFCS,
    timeslot
                                               TimeSlot,
    tdd-ChannelisationCode768
                                               TDD-ChannelisationCode768,
    maxPRACH-MidambleShifts
                                               MaxPRACH-MidambleShifts,
    pRACH-Midamble
                                               PRACH-Midamble,
    rACH
                                               RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions
                                               ProtocolExtensionContainer { PRACH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    OPTIONAL,
    . . .
PRACH-768-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FPACH-LCR-Parameters-CTCH-SetupRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                               TDD-ChannelisationCodeLCR,
    timeslotLCR
                                               TimeSlotLCR,
    midambleShiftLCR
                                               MidambleShiftLCR,
    fPACH-Power
                                               FPACH-Power,
                                               ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-UARFCNforNt
                           CRITICALITY reject
                                                   EXTENSION UARFON
                                                                           PRESENCE optional }.
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of Secondary Frequency on which FPACH to be set
up.
    . . .
PLCCH-parameters ::= SEQUENCE
    maxPowerPLCCH
                                               DL-Power,
```

```
commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    tdd-ChannelisationCode
                                               TDD-ChannelisationCode,
    timeslotLCR
                                               TimeSlotLCR.
    midambleShiftLCR
                                               MidambleShiftLCR,
    iE-Extensions
                                               ProtocolExtensionContainer { { PLCCH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
    OPTIONAL,
    . . .
PLCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-RUCCH-parameters ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    timeslot
                                               TimeSlot,
    tdd-ChannelisationCode
                                               TDD-ChannelisationCode,
    maxE-RUCCH-MidambleShifts
                                               MaxPRACH-MidambleShifts,
    e-RUCCH-Midamble
                                               PRACH-Midamble,
                                               ProtocolExtensionContainer { { E-RUCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
E-RUCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-RUCCH-768-parameters ::= SEQUENCE
    commonPhysicalChannelID768
                                               CommonPhysicalChannelID768,
    timeslot
                                               TimeSlot,
    tdd-ChannelisationCode768
                                               TDD-ChannelisationCode768,
    maxE-RUCCH-MidambleShifts
                                               MaxPRACH-MidambleShifts,
    e-RUCCH-Midamble
                                               PRACH-Midamble,
                                               ProtocolExtensionContainer { E-RUCCH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
E-RUCCH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
__ *******************************
CommonTransportChannelSetupResponse ::= SEQUENCE {
                                                        {{CommonTransportChannelSetupResponse-IEs}},
    protocolIEs
                           ProtocolIE-Container
   protocolExtensions
                           ProtocolExtensionContainer
                                                       {{CommonTransportChannelSetupResponse-Extensions}}
                                                                                                                   OPTIONAL,
```

```
CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
   PRESENCE
   optional
   { ID id-PCH-Parameters-CTCH-SetupRsp
                                       CRITICALITY ignore TYPE CommonTransportChannel-InformationResponse
                                                                                                               PRESENCE
   optional
   { ID id-RACH-Parameters-CTCH-SetupRsp
                                       CRITICALITY ignore TYPE CommonTransportChannel-InformationResponse
                                                                                                               PRESENCE
   optional
   { ID id-CriticalityDiagnostics
                                       CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                               PRESENCE
   optional
           },
CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
FACH-CommonTransportChannel-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF CommonTransportChannel-InformationResponse
__ *********************
-- COMMON TRANSPORT CHANNEL SETUP FAILURE
  *******************
CommonTransportChannelSetupFailure ::= SEQUENCE {
                                              {{CommonTransportChannelSetupFailure-IEs}},
   protocolIEs
                      ProtocolIE-Container
   protocolExtensions
                      ProtocolExtensionContainer
                                             {{CommonTransportChannelSetupFailure-Extensions}}
                                                                                               OPTIONAL,
CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
                                CRITICALITY ignore
                                                    TYPE
                                                                                               PRESENCE
                                                                                                         mandatory
                                                                                                                     } |
                                                           Cause
         ID
                                                    TYPE
                                                           CriticalityDiagnostics
                                                                                               PRESENCE
                                                                                                         optional
   },
   . . .
CommonTransportChannelSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   ******************
  COMMON TRANSPORT CHANNEL RECONFIGURATION REOUEST FDD
   CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                              {{CommonTransportChannelReconfigurationRequestFDD-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}}
                                                                                                         OPTIONAL,
```

```
CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID
                                                            CRITICALITY reject TYPE C-ID
    PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID
                                                            CRITICALITY reject TYPE ConfigurationGenerationID
    PRESENCE mandatory } |
    { ID id-CommonPhysicalChannelType-CTCH-ReconfRgstFDD
                                                            CRITICALITY reject TYPE CommonPhysicalChannelType-CTCH-ReconfRgstFDD
                                                                                                                                         PRESENCE
mandatory },
    . . .
CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-ReconfRgstFDD ::= CHOICE {
    secondary-CCPCH-parameters
                                    Secondary-CCPCHList-CTCH-ReconfRgstFDD,
    pRACH-parameters
                                    PRACHList-CTCH-ReconfRqstFDD,
    notUsed-cPCH-parameters
Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    fACH-ParametersList-CTCH-ReconfRqstFDD
                                                FACH-ParametersList-CTCH-ReconfRqstFDD
                                                                                                                                 OPTIONAL,
    pCH-Parameters-CTCH-ReconfRqstFDD
                                                PCH-Parameters-CTCH-ReconfRgstFDD
                                                                                                                                 OPTIONAL,
    pICH-Parameters-CTCH-ReconfRqstFDD
                                                PICH-Parameters-CTCH-ReconfRqstFDD
                                                                                                                                 OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MICH-Parameters-CTCH-ReconfRqstFDD
                                                   CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRqstFDD
                                                                                                                                         PRESENCE
optional
           },
    . . .
FACH-ParametersList-CTCH-ReconfRgstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRgstFDD }}
FACH-ParametersListIEs-CTCH-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-ReconfRgstFDD
                                                       CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-ReconfRqstFDD
                                                                                                                                 PRESENCE
    mandatory }
FACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-ParametersItem-CTCH-ReconfRqstFDD
FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                     CommonTransportChannelID,
    maxFACH-Power
                                      DL-Power
                                                                                                                                 OPTIONAL,
    toAWS
                                     ToAWS
                                                                                                                                 OPTIONAL,
    toAWE
                                      ToAWE
                                                                                                                                 OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID
          id-TnlQos
                            CRITICALITY ignore
                                                  EXTENSION TnlQos
                                                                    PRESENCE optional },
PCH-Parameters-CTCH-ReconfRgstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-ReconfRgstFDD }}
PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   { ID id-PCH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE
                                                                                                                   mandatory 
PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                  CommonTransportChannelID,
                                 DL-Power
   pCH-Power
                                                                                                                   OPTIONAL,
   toAWS
                                 TOAWS
                                                                                                                   OPTIONAL,
                                 TOAWE
   t.oAWE
                                                                                                                   OPTIONAL,
   iE-Extensions
                                  OPTIONAL,
PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID
          id-TnlQos
                            CRITICALITY ignore
                                                  EXTENSION TnlQos
                                                                    PRESENCE optional },
   . . .
PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-ReconfRqstFDD }}
PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE
                                                                                                                          mandatory 
PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
                                    CommonPhysicalChannelID,
   commonPhysicalChannelID
   pICH-Power
                                    PICH-Power
                                                  OPTIONAL,
                                    ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL
PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                    CommonPhysicalChannelID,
   mICH-Power
                                    PICH-Power
                                                                                                                   OPTIONAL,
                                    ProtocolExtensionContainer { { MICH-Parameters-CTCH-ReconfRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
   pRACH-ParametersList-CTCH-ReconfRqstFDD
                                           PRACH-ParametersList-CTCH-ReconfRqstFDD
                                                                                                                   OPTIONAL,
```

```
aICH-ParametersList-CTCH-ReconfRqstFDD
                                           AICH-ParametersList-CTCH-ReconfRqstFDD
                                                                                                                  OPTIONAL,
   iE-Extensions
                                           ProtocolExtensionContainer { { PRACH-CTCH-ReconfRqstFDD-ExtIEs} } 
                                                                                                                  OPTIONAL,
PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRqstFDD }}
PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE
   mandatory }
PRACH-ParametersListIE-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-ParametersItem-CTCH-ReconfRgstFDD
PRACH-ParametersItem-CTCH-ReconfRgstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                       CommonPhysicalChannelID,
   preambleSignatures
                                       PreambleSignatures
   OPTIONAL,
   allowedSlotFormatInformation
                                       AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD
   OPTIONAL,
                                       RACH-SubChannelNumbers
   rACH-SubChannelNumbers
   OPTIONAL,
                                       ProtocolExtensionContainer { PRACH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                         CRITICALITY ignore
                                               EXTENSION TnlQos
                                                                 PRESENCE optional },
{ ID
     id-TnlQos
   . . .
AllowedSlotFormatInformationList-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
ReconfRastFDD
AllowedSlotFormatInformationItem-CTCH-ReconfRgstFDD ::= SEQUENCE {
   rACH-SlotFormat
                          RACH-SlotFormat,
                          iE-Extensions
                                                                                                                  OPTIONAL,
   . . .
AllowedSlotFormatInformationItem-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AICH-ParametersList-CTCH-ReconfRgstFDD ::= ProtocolIE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRgstFDD }}
AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   { ID id-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AICH-ParametersListIE-CTCH-ReconfRqstFDD
                                                                                                                   PRESENCE
   mandatory }
```

```
AICH-ParametersListIE-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRgstFDD
AICH-ParametersItem-CTCH-ReconfRgstFDD ::= SEQUENCE {
                                      CommonPhysicalChannelID.
    commonPhysicalChannelID
   aICH-Power
                                      AICH-Power
                                                      OPTIONAL,
   iE-Extensions
                                      ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL.
AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ****************
  COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
   *****************
CommonTransportChannelReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                      {{CommonTransportChannelReconfigurationRequestTDD-IEs}},
                           ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                            OPTIONAL,
    . . .
CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
                                                            CRITICALITY reject
     { ID id-C-ID
                                                                                         TYPE C-ID
                                                                                                                               PRESENCE
mandatory } |
     { ID id-ConfigurationGenerationID
                                                             CRITICALITY reject
                                                                                         TYPE ConfigurationGenerationID
                                                                                                                              PRESENCE
mandatory }|
     { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
                                                             CRITICALITY reject
                                                                                         TYPE Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
     PRESENCE optional
     { ID id-PICH-Parameters-CTCH-ReconfRqstTDD
                                                             CRITICALITY reject
                                                                                         TYPE PICH-Parameters-CTCH-ReconfRqstTDD
                                                                                                                                   PRESENCE
optional }|
     { ID id-FACH-ParametersList-CTCH-ReconfRqstTDD
                                                             CRITICALITY reject
                                                                                         TYPE FACH-ParametersList-CTCH-ReconfRqstTDD PRESENCE
optional }|
     { ID id-PCH-Parameters-CTCH-ReconfRqstTDD
                                                            CRITICALITY reject
                                                                                         TYPE PCH-Parameters-CTCH-ReconfRgstTDD PRESENCE optional
CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD
                                                      CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-ReconfRqstTDD
           PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-MICH-Parameters-CTCH-ReconfRqstTDD
                                                      CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRqstTDD
               PRESENCE optional }
    { ID id-PLCCH-Parameters-CTCH-ReconfRqstTDD
                                                      CRITICALITY ignore EXTENSION PLCCH-Parameters-CTCH-ReconfRqstTDD
           PRESENCE optional }
    { ID id-S-CCPCH-768-Parameters-CTCH-ReconfRqstTDD
                                                      CRITICALITY reject EXTENSION Secondary-CCPCH-768-Parameters-CTCH-ReconfRqstTDD
    PRESENCE optional }
    { ID id-PICH-768-Parameters-CTCH-ReconfRqstTDD
                                                      CRITICALITY reject EXTENSION PICH-768-Parameters-CTCH-ReconfRqstTDD
       PRESENCE optional } |
```

```
{ ID id-MICH-768-Parameters-CTCH-ReconfRqstTDD
                                                       CRITICALITY reject EXTENSION MICH-768-Parameters-CTCH-ReconfRqstTDD
       PRESENCE optional }
     ID id-UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD
                                                       CRITICALITY reject EXTENSION UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD
    PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD::= SEQUENCE {
    cCTrCH-ID
                                   CCTrCH-ID,
                                   Secondary-CCPCHList-CTCH-ReconfRqstTDD
    secondaryCCPCHList
                                                                                   OPTIONAL,
                                   ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
Secondary-CCPCH-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD
                                                                       CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-
ReconfRqstTDD
                   PRESENCE optional }
    -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
    { ID id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD
                                                                       CRITICALITY reject EXTENSION Secondary-CCPCH-LCR-parameterExtendedList-
CTCH-ReconfRqstTDD PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs are to be reconfigured.
    . . .
Secondary-CCPCHList-CTCH-ReconfRgstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCHListIEs-CTCH-ReconfRgstTDD }}
Secondary-CCPCHListIEs-CTCH-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD
                                                      CRITICALITY reject TYPE Secondary-CCPCHListIE-CTCH-ReconfRqstTDD
                                                                                                                               PRESENCE
    mandatory }
Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD
Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                       CommonPhysicalChannelID,
                                       DL-Power
    sCCPCH-Power
                                                       OPTIONAL,
    iE-Extensions
                                       ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                                      OPTIONAL,
Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-parameterExtendedList-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCHItem-CTCH-ReconfRgstTDD
    -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
Secondary-CCPCH-LCR-parameterExtendedList-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsLCRinExt)) OF Secondary-CCPCHItem-CTCH-
ReconfRastTDD
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
PICH-Parameters-CTCH-ReconfRqstTDD
                                  ::= SEQUENCE {
    commonPhysicalChannelID
                                       CommonPhysicalChannelID,
    pICH-Power
                                       PICH-Power
                                                       OPTIONAL,
```

```
ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRgstTDD
FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                    CommonTransportChannelID,
    toAWS
                                    TOAWS
                                                     OPTIONAL.
    toAWE
                                    TOAWE
                                                     OPTIONAL.
                                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD
                                                                                                                                                 } |
                                                             CRITICALITY reject
                                                                                     EXTENSION DL-Power
                                                                                                                          PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
    { ID
          id-TnlQos
                                                             CRITICALITY ignore
                                                                                     EXTENSION TnlQos
                                                                                                                          PRESENCE optional },
    . . .
PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
     commonTransportChannelID
                                         CommonTransportChannelID,
     toAWS
                                         ToAWS
                                                                                                                            OPTIONAL,
     toAWE
                                         ToAWE
                                                                                                                            OPTIONAL,
                                         ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
     iE-Extensions
                                                                                                                            OPTIONAL,
PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PCH-Power-LCR-CTCH-ReconfRastTDD
                                                     CRITICALITY reject
                                                                             EXTENSION DL-Power
                                                                                                                      PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
   { ID id-TnlQos
                                                     CRITICALITY ignore
                                                                             EXTENSION TnlOos
                                                                                                                      PRESENCE optional },
    . . .
FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId
                                    CommonPhysicalChannelID,
    fPACHPower
                                    FPACH-Power
                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { FPACH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
FPACH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
    mICH-Power
                                        PICH-Power
                                                                                                                                  OPTIONAL,
```

```
ProtocolExtensionContainer { { MICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
MICH-Parameters-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PLCCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    maxPowerPLCCH
    iE-Extensions
                                        ProtocolExtensionContainer { { PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                                OPTIONAL,
    . . .
PLCCH-Parameters-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-768-Parameters-CTCH-ReconfRgstTDD::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    secondaryCCPCH768List
                                    Secondary-CCPCH-768-List-CTCH-ReconfRqstTDD
                                                                                        OPTIONAL,
                                    ProtocolExtensionContainer { { Secondary-CCPCH-768-CTCH-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
Secondary-CCPCH-768-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-768-List-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD
Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                       CommonPhysicalChannelID768,
    sCCPCH-Power
                                        DL-Power
                                                       OPTIONAL,
                                       ProtocolExtensionContainer { { Secondary-CCPCH-768-Item-CTCH-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                       OPTIONAL,
Secondary-CCPCH-768-Item-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
                                       CommonPhysicalChannelID768,
    commonPhysicalChannelID768
    pICH-Power
                                                        OPTIONAL,
                                        PICH-Power
    iE-Extensions
                                        ProtocolExtensionContainer { { PICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                                       OPTIONAL,
PICH-768-Parameters-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
```

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commonPhysicalChannelID768
                                      CommonPhysicalChannelID768,
   mICH-Power
                                      PICH-Power
                                                                                                                                  OPTIONAL,
   iE-Extensions
                                      ProtocolExtensionContainer { MICH-768-Parameters-CTCH-ReconfRgstTDD-ExtIEs} }
                                                                                                                                  OPTIONAL,
MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    uPPCHPositionLCR
                                       UPPCHPositionLCR
                                                                                                                        OPTIONAL,
    11ARFCN
                                       UARECN
                                                                                                                       OPTIONAL,
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies Corresponds to Nt (TS 25.105 [15])
    iE-Extensions
                                       ProtocolExtensionContainer { { UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD-ExtIEs} }
                                                                                                                       OPTIONAL,
     . . .
UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
CommonTransportChannelReconfigurationResponse ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                      {{CommonTransportChannelReconfigurationResponse-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{CommonTransportChannelReconfigurationResponse-Extensions}}
                                                                                                                           OPTIONAL,
    . . .
CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::=
    { ID
           id-CriticalityDiagnostics
                                          CRITICALITY
                                                         ignore
                                                                         TYPE
                                                                                 CriticalityDiagnostics
                                                                                                                    PRESENCE
                                                                                                                                  optional},
    . . .
CommonTransportChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ******************
  COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
   ******************
CommonTransportChannelReconfigurationFailure ::= SEQUENCE
   protocolIEs
                           ProtocolIE-Container
                                                      {{CommonTransportChannelReconfigurationFailure-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{CommonTransportChannelReconfigurationFailure-Extensions}}
                                                                                                                    OPTIONAL,
    . . .
```

```
CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-Cause
                                     CRITICALITY ignore
                                                              TYPE
                                                                     Cause
                                                                                                       PRESENCE
                                                                                                                    mandatory } |
          id-CriticalityDiagnostics
    ID
                                     CRITICALITY ignore
                                                              TYPE
                                                                     CriticalityDiagnostics
                                                                                                       PRESENCE
                                                                                                                    optional
CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  COMMON TRANSPORT CHANNEL DELETION REQUEST
  *****************
CommonTransportChannelDeletionRequest ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                     {CommonTransportChannelDeletionRequest-IEs}},
                                                   {{CommonTransportChannelDeletionRequest-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                       OPTIONAL,
CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
          id-C-ID
                                         CRITICALITY reject
                                                              TYPE C-ID
                                                                                                    PRESENCE mandatory }
          id-CommonPhysicalChannelID
     ID
                                         CRITICALITY reject
                                                              TYPE CommonPhysicalChannelID
                                                                                                    PRESENCE mandatory }
          id-ConfigurationGenerationID
    ID
                                                                                                    PRESENCE mandatory },
                                         CRITICALITY reject
                                                              TYPE ConfigurationGenerationID
CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE optional },
   . . .
  COMMON TRANSPORT CHANNEL DELETION RESPONSE
  ******************
CommonTransportChannelDeletionResponse ::= SEQUENCE {
                        ProtocolIE-Container
                                                {{CommonTransportChannelDeletionResponse-IEs}},
   protocolIEs
   protocolExtensions
                        ProtocolExtensionContainer
                                                {{CommonTransportChannelDeletionResponse-Extensions}}
                                                                                                              OPTIONAL,
CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::=
         id-CriticalityDiagnostics
   { ID
                                     CRITICALITY
                                                   ignore
                                                              TYPE
                                                                     CriticalityDiagnostics
                                                                                                       PRESENCE
                                                                                                                    optional},
   . . .
```

```
CommonTransportChannelDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- BLOCK RESOURCE REQUEST
    ****************
BlockResourceRequest ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                               {{BlockResourceRequest-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{BlockResourceRequest-Extensions}}
                                                                                                  OPTIONAL,
BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                     CRITICALITY reject
                                                         TYPE C-ID
                                                                                                  PRESENCE mandatory }
     ID id-BlockingPriorityIndicator
                                                                                                  PRESENCE mandatory }
                                     CRITICALITY reject
                                                         TYPE BlockingPriorityIndicator
   { ID id-ShutdownTimer
                                     CRITICALITY reject
                                                         TYPE ShutdownTimer
                                                                                                  PRESENCE conditional
   -- The IE shall be present if the Blocking Priority Indicator IE indicates "Normal Priority"--
BlockResourceRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- BLOCK RESOURCE RESPONSE
       ******************
BlockResourceResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                   {{BlockResourceResponse-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{BlockResourceResponse-Extensions}}
                                                                                                     OPTIONAL,
BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                 CRITICALITY ignore
                                                     TYPE CriticalityDiagnostics
                                                                                 PRESENCE optional },
   . . .
BlockResourceResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   ****************
-- BLOCK RESOURCE FAILURE
__ **********************
```

```
BlockResourceFailure ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                 {{BlockResourceFailure-IEs}},
                                                 {{BlockResourceFailure-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                    OPTIONAL,
BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                   CRITICALITY ignore
                                                        TYPE Cause
                                                                                                      PRESENCE mandatory } |
     ID id-CriticalityDiagnostics
                                   CRITICALITY ignore
                                                        TYPE CriticalityDiagnostics
                                                                                                      PRESENCE optional
BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ***************
-- UNBLOCK RESOURCE INDICATION
__ ******************
UnblockResourceIndication ::= SEOUENCE {
                                                 {{UnblockResourceIndication-IEs}},
   protocolIEs
                      ProtocolIE-Container
   protocolExtensions
                        ProtocolExtensionContainer
                                                {{UnblockResourceIndication-Extensions}}
                                                                                        OPTIONAL,
UnblockResourceIndication-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-C-ID
                        CRITICALITY ignore
                                             TYPE C-ID
                                                            PRESENCE mandatory },
UnblockResourceIndication-Extensions NBAP-PROTOCOL-EXTENSION ::=
  *****************
-- AUDIT REQUIRED INDICATION
  *****************
AuditRequiredIndication ::= SEQUENCE {
                                                 {{AuditRequiredIndication-IEs}},
   protocolIEs
                        ProtocolIE-Container
                                                {{AuditRequiredIndication-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                      OPTIONAL,
AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
   . . .
```

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AuditRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- AUDIT REQUEST
  *****************
AuditRequest ::= SEQUENCE {
                                                      {{AuditRequest-IEs}},
   protocolIEs
                            ProtocolIE-Container
                            ProtocolExtensionContainer {{AuditRequest-Extensions}}
   protocolExtensions
                                                                                  OPTIONAL,
AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-Start-Of-Audit-Sequence-Indicator
                                              CRITICALITY reject TYPE Start-Of-Audit-Sequence-Indicator
                                                                                                            PRESENCE mandatory },
   . . .
AuditReguest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
__ ********************
-- AUDIT RESPONSE
  AuditResponse ::= SEQUENCE {
   protocolIEs
                            ProtocolIE-Container
                                                      {{AuditResponse-IEs}},
                                                      {{AuditResponse-Extensions}}
   protocolExtensions
                            ProtocolExtensionContainer
                                                                                      OPTIONAL,
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-End-Of-Audit-Sequence-Indicator
                                                  CRITICALITY ignore TYPE End-Of-Audit-Sequence-Indicator
                                                                                                                         PRESENCE
mandatory } |
   { ID id-Cell-InformationList-AuditRsp
                                                  CRITICALITY ignore TYPE Cell-InformationList-AuditRsp
                                                                                                                         PRESENCE
optional }
   { ID id-CCP-InformationList-AuditRsp
                                                  CRITICALITY ignore TYPE CCP-InformationList-AuditRsp
                                                                                                                         PRESENCE
optional }
   -- CCP (Communication Control Port) --
   { ID id-Local-Cell-InformationList-AuditRsp
                                                  CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp
                                                                                                                         PRESENCE
optional }
     ID id-Local-Cell-Group-InformationList-AuditRsp
                                                  CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp
                                                                                                                  PRESENCE optional } |
    ID id-CriticalityDiagnostics
                                                  CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                         PRESENCE
optional },
AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-Power-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-AuditRsp
    PRESENCE optional }.
    . . .
Cell-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}
Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
           id-Cell-InformationItem-AuditRsp
                                                     CRITICALITY ignore
                                                                             TYPE Cell-InformationItem-AuditRsp
                                                                                                                                 PRESENCE optional
Cell-InformationItem-AuditRsp ::= SEQUENCE {
                                            C-ID.
     configurationGenerationID
                                            ConfigurationGenerationID,
     resourceOperationalState
                                            ResourceOperationalState,
     availabilityStatus
                                            AvailabilityStatus,
     local-Cell-ID
                                            Local-Cell-ID,
     primary-SCH-Information
                                            P-SCH-Information-AuditRsp
                                                                                                                              OPTIONAL,
                                            S-SCH-Information-AuditRsp
     secondary-SCH-Information
                                                                                                                              OPTIONAL,
     primary-CPICH-Information
                                            P-CPICH-Information-AuditRsp
                                                                                                                             OPTIONAL,
     secondary-CPICH-InformationList
                                            S-CPICH-InformationList-AuditRsp
                                                                                                                             OPTIONAL,
     primary-CCPCH-Information
                                            P-CCPCH-Information-AuditRsp
                                                                                                                             OPTIONAL,
     bCH-Information
                                            BCH-Information-AuditRsp
                                                                                                                              OPTIONAL,
     secondary-CCPCH-InformationList
                                            S-CCPCH-InformationList-AuditRsp
                                                                                                                             OPTIONAL,
     pCH-Information
                                            PCH-Information-AuditRsp
                                                                                                                              OPTIONAL,
     pICH-Information
                                            PICH-Information-AuditRsp
                                                                                                                              OPTIONAL,
     fACH-InformationList
                                            FACH-InformationList-AuditRsp
                                                                                                                              OPTIONAL,
     pRACH-InformationList
                                            PRACH-InformationList-AuditRsp
                                                                                                                              OPTIONAL,
     rACH-InformationList
                                            RACH-InformationList-AuditRsp
                                                                                                                              OPTIONAL,
     aICH-InformationList
                                            AICH-InformationList-AuditRsp
                                                                                                                              OPTIONAL,
     notUsed-1-pCPCH-InformationList
                                            NULL
                                                                                                                             OPTIONAL,
     notUsed-2-cPCH-InformationList
                                            NULL
                                                                                                                             OPTIONAL,
     notUsed-3-aP-AICH-InformationList
                                            NULL
                                                                                                                             OPTIONAL,
     notUsed-4-cDCA-ICH-InformationList
                                            NULL
                                                                                                                              OPTIONAL,
     sCH-Information
                                            SCH-Information-AuditRsp
                                                                                                                             OPTIONAL,
     iE-Extensions
                                            ProtocolExtensionContainer
                                                                        { { Cell-InformationItem-AuditRsp-ExtIEs} }
                                                                                                                              OPTIONAL,
Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-InformationList-AuditRsp
                                                     CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-AuditRsp
                                                                                                                                         PRESENCE
optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-DwPCH-LCR-InformationList-AuditRsp
                                                     CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information
                                                                                                                                 PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
    { ID id-HSDSCH-Resources-Information-AuditRsp
                                                    CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-AuditRsp
                                                                                                                                         PRESENCE
optional }|
    -- For 1.28Mcps TDD, this HS-DSCH Resource Information is for the first Frequency repetition, HS-DSCH Resource Information for Frequency
repetitions 2 and on, should be defined in MultipleFreq-HS-DSCH-Resources-InformationList-AuditRsp.
    { ID id-MICH-Information-AuditRsp
                                                     CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information
                                                                                                                                         PRESENCE
optional }
    { ID id-S-CCPCH-InformationListExt-AuditRsp
                                                     CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-AuditRsp
    PRESENCE optional } |
```

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-- Applicable to 3.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell.
   { ID id-S-CCPCH-LCR-InformationListExt-AuditRsp CRITICALITY ignore EXTENSION S-CCPCH-LCR-InformationListExt-AuditRsp
   PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHcell SCCPCHs in the cell.
   PRESENCE optional } |
   -- For 1.28Mcps TDD, this E-DCH Resource Information is for the first Frequency repetition, E-DCH Resource Information for Frequency
repetitions 2 and on, should be defined in MultipleFreg-E-DCH-Resources-InformationList-AuditRsp.
     ID id-PLCCH-InformationList-AuditRsp
                                                CRITICALITY ignore EXTENSION PLCCH-InformationList-AuditRsp
   PRESENCE optional } |
     ID id-P-CCPCH-768-Information-AuditRsp
                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }
    ID id-S-CCPCH-768-InformationList-AuditRsp
                                                CRITICALITY ignore EXTENSION S-CCPCH-768-InformationList-AuditRsp
   PRESENCE optional }
     ID id-PICH-768-Information-AuditRsp
                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }
     ID id-PRACH-768-InformationList-AuditRsp
                                                CRITICALITY ignore EXTENSION PRACH-768-InformationList-AuditRsp
   PRESENCE optional }
     ID id-SCH-768-Information-AuditRsp
                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }
     ID id-MICH-768-Information-AuditRsp
                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }
                                                CRITICALITY ignore EXTENSION E-RUCCH-InformationList-AuditRsp
     ID id-E-RUCCH-InformationList-AuditRsp
   PRESENCE optional } |
    { ID id-E-RUCCH-768-InformationList-AuditRsp
                                                CRITICALITY ignore EXTENSION E-RUCCH-768-InformationList-AuditRsp
   PRESENCE optional } |
    { ID id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp
                                                              CRITICALITY ignore EXTENSION Cell-Frequency-List-Information-LCR-MulFreq-
           PRESENCE optional } -- Applicable to 1.28Mcps TDD when using multiple frequencies
   { ID id-UPPCH-LCR-InformationList-AuditRsp
                                                CRITICALITY ignore
                                                                      EXTENSION UPPCH-LCR-InformationList-AuditRsp
                                                                                                                             PRESENCE
optional
     -- Applicable to 1.28Mcps TDD only
    { ID id-multipleFreg-HS-DSCH-Resources-InformationList-AuditRsp CRITICALITY ignore EXTENSION MultipleFreg-HS-DSCH-Resources-InformationList-
          PRESENCE optional } |
-- Applicable to 1.28Mcps TDD when using multiple frequencies. This HS-DSCH Resource Information is for the 2nd and beyond frequencies.
    PRESENCE optional },
AuditRsp
   -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-DCH Resource Information is for the 2nd and beyond frequencies.
P-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }}
P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-P-SCH-Information
                                          CRITICALITY ignore
                                                                TYPE Common-PhysicalChannel-Status-Information
                                                                                                                  PRESENCE
                                                                                                                             mandatory }
S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }}
S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-Information
                                          CRITICALITY ignore
                                                                TYPE Common-PhysicalChannel-Status-Information
                                                                                                                  PRESENCE
                                                                                                                             mandatory }
P-CPICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditRsp }}
P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-Information
                                          CRITICALITY ignore
                                                                TYPE Common-PhysicalChannel-Status-Information
                                                                                                                  PRESENCE
                                                                                                                             mandatory }
```

```
S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-AuditRsp }}
S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-S-CPICH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-PhysicalChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }}
P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                                             CRITICALITY ignore
     { ID id-P-CCPCH-Information
                                                                      TYPE Common-PhysicalChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}
BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-BCH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-TransportChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}
S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-S-CCPCH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-PhysicalChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}
PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-PCH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-TransportChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
PICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-PICH-Information
                                             CRITICALITY ignore
                                                                                                                           PRESENCE mandatory }
                                                                      TYPE Common-PhysicalChannel-Status-Information
FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-FACH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-TransportChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }}
PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-PRACH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-PhysicalChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-AuditRsp }}
RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-RACH-Information
                                             CRITICALITY ignore
                                                                      TYPE Common-TransportChannel-Status-Information
                                                                                                                           PRESENCE mandatory }
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AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}
AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     { ID id-AICH-Information
                                          CRITICALITY ignore
                                                                 TYPE Common-PhysicalChannel-Status-Information
                                                                                                                   PRESENCE mandatory }
SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}
SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                                           CRITICALITY ignore
                                                                 TYPE Common-PhysicalChannel-Status-Information
     { ID id-SCH-Information
                                                                                                                   PRESENCE mandatory }
FPACH-LCR-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}
FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     TYPE Common-PhysicalChannel-Status-Information
                                                                                                                   PRESENCE mandatory }
HS-DSCH-Resources-Information-AuditRsp ::= SEQUENCE {
    resourceOperationalState
                                     ResourceOperationalState,
    availabilityStatus
                                     AvailabilityStatus,
                                     ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-AuditRsp-ExtIEs }}
   iE-Extensions
                                                                                                                        OPTIONAL,
HS-DSCH-Resources-Information-AuditRsp-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                        CRITICALITY ignore
                                                                       PRESENCE
                                                                                  optional },
                                                 EXTENSION UARFCN
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
    . . .
S-CCPCH-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-
AuditRsp }}
S-CCPCH-LCR-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-
AuditRsp }}
E-DCH-Resources-Information-AuditRsp ::= SEQUENCE {
                                     ResourceOperationalState,
    resourceOperationalState
    availabilityStatus
                                     AvailabilityStatus,
                                     ProtocolExtensionContainer {{ E-DCH-Resources-Information-AuditRsp-ExtIEs }}
   iE-Extensions
                                                                                                                        OPTIONAL,
E-DCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                         CRITICALITY ignore
                                                EXTENSION UARFON
                                                                       PRESENCE
                                                                                  optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
PLCCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-AuditRsp }}
PLCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
```

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S-CCPCH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell768)) OF ProtocolIE-Single-Container {{ S-CCPCH-768-InformationItemIE-
AuditRsp }}
S-CCPCH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
PRACH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-768-InformationItemIE-AuditRsp }}
PRACH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
E-RUCCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-InformationItemIE-AuditRsp }}
E-RUCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-E-RUCCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                   PRESENCE mandatory }
E-RUCCH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-768-InformationItemIE-
AuditRsp }}
E-RUCCH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Cell-Frequency-
List-InformationIE-LCR-MulFreq-AuditRsp }}
Cell-Frequency-List-InformationIE-LCR-MulFreq-AuditRsp NBAP-PROTOCOL-IES ::= {
   { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp CRITICALITY ignore TYPE Cell-Frequency-List-InformationItem-LCR-MulFreq-
             PRESENCE mandatory }
AuditRsp
Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp ::= SEQUENCE
   uARFCN
                                 UARFCN,
   resourceOperationalState
                                 ResourceOperationalState,
   availabilityStatus
                                 AvailabilityStatus,
                                 ProtocolExtensionContainer {{ Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs }}
   iE-Extensions
   OPTIONAL,
   . . .
Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UPPCH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UPPCH-LCR-InformationIE-AuditRsp
UPPCH-LCR-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
```

```
UPPCH-LCR-InformationItem-AuditRsp ::= SEQUENCE {
   uARFCN
                                      UARFCN
                                                         OPTIONAL.
    uPPCHPositionLCR
                                      UPPCHPositionLCR.
                                      ResourceOperationalState,
   resourceOperationalState
    availabilityStatus
                                      AvailabilityStatus,
   iE-Extensions
                                      ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-AuditRsp-ExtIEs }}
                                                                                                                  OPTIONAL,
UPPCH-LCR-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleFreg-HS-DSCH-Resources-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container
{{ MultipleFreg-HS-DSCH-Resources-InformationItem-AuditRsp}}
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-HS-DSCH-Resources-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
MultipleFreq-E-DCH-Resources-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container {{ MultipleFreq-
E-DCH-Resources-InformationItem-AuditRsp}}
   -- Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-E-DCH-Resources-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-E-DCH-Resources-Information-AuditRsp CRITICALITY ignore TYPE E-DCH-Resources-Information-AuditRsp
                                                                                                                  PRESENCE mandatory }
CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-AuditRsp }}
CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-CCP-InformationItem-AuditRsp
                                                 CRITICALITY ignore
                                                                            TYPE CCP-InformationItem-AuditRsp
                                                                                                                          PRESENCE mandatory }
CCP-InformationItem-AuditRsp ::= SEQUENCE {
    communicationControlPortID
                                      CommunicationControlPortID,
    resourceOperationalState
                                      ResourceOperationalState,
    availabilityStatus
                                      AvailabilityStatus,
                                      ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}
   iE-Extensions
                                                                                                                  OPTIONAL,
CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-
AuditRsp }}
Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-AuditRsp
                                               CRITICALITY ignore TYPE Local-Cell-InformationItem-AuditRsp
                                                                                                              PRESENCE
                                                                                                                          mandatory}
```

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Local-Cell-InformationItem-AuditRsp ::= SEQUENCE
    local-Cell-ID
                                                Local-Cell-ID.
    dl-or-global-capacityCredit
                                                DL-or-Global-CapacityCredit,
    ul-capacityCredit
                                                UL-CapacityCredit
    OPTIONAL,
    commonChannelsCapacityConsumptionLaw
                                                CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw
                                                DedicatedChannelsCapacityConsumptionLaw,
    maximumDL-PowerCapability
                                                MaximumDL-PowerCapability
    OPTIONAL,
    minSpreadingFactor
                                                MinSpreadingFactor
   OPTIONAL,
    minimumDL-PowerCapability
                                                MinimumDL-PowerCapability
    OPTIONAL,
    local-Cell-Group-ID
                                                Local-Cell-ID
    OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}
                                                                                                                                       OPTIONAL,
Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-ReferenceClockAvailability
                                                CRITICALITY ignore EXTENSION ReferenceClockAvailability
                                                                                                                        PRESENCE optional }
                                                CRITICALITY ignore EXTENSION Local-Cell-ID
                                                                                                                        PRESENCE optional
     ID id-Power-Local-Cell-Group-ID
     ID id-HSDPA-Capability
                                                                                                                        PRESENCE optional }
                                                CRITICALITY ignore EXTENSION HSDPA-Capability
     ID id-E-DCH-Capability
                                                CRITICALITY ignore EXTENSION E-DCH-Capability
                                                                                                                        PRESENCE optional } |
                                                CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability
    { ID id-E-DCH-TTI2ms-Capability
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
    { ID id-E-DCH-SF-Capability
                                                CRITICALITY ignore EXTENSION E-DCH-SF-Capability
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
    { ID id-E-DCH-HARO-Combining-Capability
                                                CRITICALITY ignore EXTENSION E-DCH-HARO-Combining-Capability
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
    { ID id-E-DCH-CapacityConsumptionLaw
                                                CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                                        PRESENCE optional }
     ID id-F-DPCH-Capability
                                                CRITICALITY ignore EXTENSION F-DPCH-Capability
                                                                                                                        PRESENCE optional }
     ID id-E-DCH-TDD-CapacityConsumptionLaw
                                               CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                                                                                        PRESENCE optional }
     ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability
    PRESENCE optional }
    { ID id-Max-UE-DTX-Cycle
                                                CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if Continuous Packet Connectivity DTX-DRX Capability IE is present and set to 'Continuous Packet Connectivity DTX-
DRX Capable'.
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Capability
    PRESENCE optional } |
     ID id-MIMO-Capability
                                                CRITICALITY ignore EXTENSION MIMO-Capability
                                                                                                                        PRESENCE optional }
     ID id-SixtyfourQAM-DL-Capability
                                                CRITICALITY ignore EXTENSION SixtyfourQAM-DL-Capability
                                                                                                                        PRESENCE optional
     ID id-MBMS-Capability
                                                CRITICALITY ignore EXTENSION MBMS-Capability
                                                                                                                        PRESENCE optional
                                                                                                                        PRESENCE optional }
     ID id-Enhanced-FACH-Capability
                                                CRITICALITY ignore EXTENSION Enhanced-FACH-Capability
     ID id-Enhanced-PCH-Capability
                                                CRITICALITY ignore EXTENSION Enhanced-PCH-Capability
                                                                                                                        PRESENCE conditional }
    -- The IE shall be present if Enhanced FACH Capability IE is set to 'Enhanced FACH Capable'.
     ID id-SixteenQAM-UL-Capability
                                                CRITICALITY ignore EXTENSION SixteenQAM-UL-Capability
                                                                                                                        PRESENCE optional }
     ID id-HSDSCH-MACdPDU-SizeCapability
                                                CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability
                                                                                                                        PRESENCE optional
     ID id-MBSFN-Only-Mode-Capability
                                                CRITICALITY ignore EXTENSION MBSFN-Only-Mode-Capability
                                                                                                                        PRESENCE optional
     ID id-F-DPCH-SlotFormatCapability
                                                CRITICALITY ignore EXTENSION F-DPCH-SlotFormatCapability
                                                                                                                        PRESENCE optional
     ID id-E-DCH-MACdPDU-SizeCapability
                                                CRITICALITY ignore EXTENSION E-DCH-MACdPDU-SizeCapability
                                                                                                                        PRESENCE optional }
     ID id-Common-EDCH-Capability
                                                CRITICALITY ignore EXTENSION Common-EDCH-Capability
                                                                                                                        PRESENCE optional }
```

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PRESENCE optional }
   { ID id-E-AI-Capability
                                             CRITICALITY ignore EXTENSION E-AI-Capability
   -- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
     ID id-Enhanced-UE-DRX-Capability
                                             CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability
                                                                                                                PRESENCE optional }
     ID id-Enhanced-UE-DRX-CapabilityLCR
                                             CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability
                                                                                                                PRESENCE optional }
     PRESENCE optional }
     ID id-SixtyfourOAM-DL-MIMO-Combined-Capability
                                                    CRITICALITY ignore EXTENSION SixtyfourOAM-DL-MIMO-Combined-Capability PRESENCE optional |
     ID id-Multi-Cell-Capability-Info
                                             CRITICALITY ignore EXTENSION Multi-Cell-Capability-Info
                                                                                                                PRESENCE optional }
     ID id-Semi-PersistentScheduling-CapabilityLCR CRITICALITY ignore EXTENSION Semi-PersistentScheduling-CapabilityLCR
                                                                                                                       PRESENCE optional }
     ID id-ContinuousPacketConnectivity-DRX-CapabilityLCR CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-CapabilityLCR
   PRESENCE optional } |
   { ID id-Common-E-DCH-HSDPCCH-Capability
                                            CRITICALITY ignore EXTENSION Common-E-DCH-HSDPCCH-Capability
                                                                                                            PRESENCE optional } |
   -- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
     PRESENCE optional } |
     ID id-TxDiversityOnDLControlChannelsByMIMOUECapability
                                                          CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability
   PRESENCE optional } |
     ID id-Single-Stream-MIMO-Capability
                                             CRITICALITY ignore EXTENSION Single-Stream-MIMO-Capability
                                                                                                                PRESENCE optional
     ID id-Dual-Band-Capability-Info
                                             CRITICALITY ignore EXTENSION Dual-Band-Capability-Info
                                                                                                                PRESENCE optional
     ID id-CellPortion-CapabilityLCR
                                             CRITICALITY ignore EXTENSION CellPortion-CapabilityLCR
                                                                                                                PRESENCE optional
     ID id-Cell-Capability-Container
                                             CRITICALITY ignore EXTENSION Cell-Capability-Container
                                                                                                                PRESENCE optional
                                                                                                                PRESENCE optional }
     ID id-TS0-CapabilityLCR
                                             CRITICALITY ignore EXTENSION TSO-CapabilityLCR
     ID id-PrecodingWeightSetRestriction
                                             CRITICALITY ignore EXTENSION PrecodingWeightSetRestriction
                                                                                                                PRESENCE optional }
     ID id-Adaptive-Special-Burst-Power-CapabilityLCR CRITICALITY ignore EXTENSION Adaptive-Special-Burst-Power-CapabilityLCR
                                                                                                                              PRESENCE
optional },
   . . .
Local-Cell-Group-InformationList-AuditRsp
                                          ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE-AuditRsp }}
Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-Group-InformationItem-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-AuditRsp
                                                                                                                       PRESENCE mandatory
Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
                                             Local-Cell-ID,
   local-Cell-Group-ID
   dl-or-global-capacityCredit
                                             DL-or-Global-CapacityCredit,
   ul-capacityCredit
                                             UL-CapacityCredit
                                                                                  OPTIONAL,
   commonChannelsCapacityConsumptionLaw
                                             CommonChannelsCapacityConsumptionLaw,
   dedicatedChannelsCapacityConsumptionLaw
                                             DedicatedChannelsCapacityConsumptionLaw,
   iE-Extensions
                                             ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}
   OPTIONAL,
   . . .
Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-E-DCH-CapacityConsumptionLaw
                                             CRITICALITY ignore
                                                                       EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                                       PRESENCE
   optional }|
   { ID id-E-DCH-TDD-CapacityConsumptionLaw
                                            CRITICALITY ignore
                                                                       EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                                                                                       PRESENCE
   optional }.
   . . .
Power-Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-
Group-InformationItemIE-AuditRsp }}
```

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Power-Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
         id-Power-Local-Cell-Group-InformationItem-AuditRsp
                                                                 CRITICALITY
                                                                               ignore
                                                                                                   Power-Local-Cell-Group-
InformationItem-AuditRsp
                            PRESENCE
                                       mandatory }
Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
   power-Local-Cell-Group-ID
                                           Local-Cell-ID,
   maximumDL-PowerCapability
                                           MaximumDL-PowerCapability,
                                           ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}
   iE-Extensions
   OPTIONAL,
   . . .
Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ *********************
-- AUDIT FAILURE
__ *********************
AuditFailure ::= SEQUENCE {
                                                   {{AuditFailure-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{AuditFailure-Extensions}}
                                                                                   OPTIONAL,
AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                       CRITICALITY ignore
                                                                 TYPE Cause
                                                                                                            PRESENCE mandatory
                                                                                                                                 } |
     ID id-CriticalityDiagnostics
                                                                 TYPE CriticalityDiagnostics
                                                                                                            PRESENCE optional
                                       CRITICALITY ignore
AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ******************
  COMMON MEASUREMENT INITIATION REQUEST
        ****************
CommonMeasurementInitiationRequest ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                   {{CommonMeasurementInitiationRequest-IEs}},
                                                  {{CommonMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                            OPTIONAL,
```

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CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
      ID id-MeasurementID
                                                    CRITICALITY reject TYPE MeasurementID
                                                                                                                         PRESENCE mandatory }
      ID id-CommonMeasurementObjectType-CM-Rgst
                                                    CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rgst
                                                                                                                         PRESENCE mandatory
      ID id-CommonMeasurementType
                                                    CRITICALITY reject TYPE CommonMeasurementType
                                                                                                                         PRESENCE mandatory }
      ID id-MeasurementFilterCoefficient
                                                    CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                                         PRESENCE optional } |
      ID id-ReportCharacteristics
                                                    CRITICALITY reject TYPE ReportCharacteristics
                                                                                                                         PRESENCE mandatory } |
      ID id-SFNReportingIndicator
                                                    CRITICALITY reject TYPE FNReportingIndicator
                                                                                                                         PRESENCE mandatory }
     ID id-SFN
                                                    CRITICALITY reject TYPE SFN
                                                                                                                         PRESENCE optional }.
CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
      ID id-CommonMeasurementAccuracy
                                                            CRITICALITY reject
                                                                                  EXTENSION CommonMeasurementAccuracy
                                                                                                                                 PRESENCE optional } |
      ID id-MeasurementRecoveryBehavior
                                                            CRITICALITY ignore
                                                                                  EXTENSION MeasurementRecoveryBehavior
                                                                                                                                 PRESENCE optional
     ID id-RTWP-ReportingIndicator
                                                            CRITICALITY reject
                                                                                  EXTENSION RTWP-ReportingIndicator
                    PRESENCE optional } |
     ID id-RTWP-CellPortion-ReportingIndicator
                                                                                  EXTENSION RTWP-CellPortion-ReportingIndicator
                                                            CRITICALITY reject
                PRESENCE optional |
    { ID id-Reference-ReceivedTotalWideBandPowerReporting
                                                            CRITICALITY ignore
                                                                                  EXTENSION Reference-ReceivedTotalWideBandPowerReporting
        PRESENCE optional } |
    { ID id-GANSS-Time-ID
                                                            CRITICALITY ignore
                                                                                  EXTENSION GANSS-Time-ID
    PRESENCE optional },
    . . .
CommonMeasurementObjectType-CM-Rgst ::= CHOICE {
    cell
                                    Cell-CM-Rast,
    rACH
                                    RACH-CM-Rast,
    notUsed-cPCH
                                    NULL,
    extension-CommonMeasurementObjectType-CM-Rqst
                                                        Extension-CommonMeasurementObjectType-CM-Rqst
Extension-CommonMeasurementObjectType-CM-Rqst ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RqstIE }}
Extension-CommonMeasurementObjectType-CM-RgstIE NBAP-PROTOCOL-IES ::= {
      ID id-Power-Local-Cell-Group-choice-CM-Rgst CRITICALITY reject TYPE PowerLocalCellGroup-CM-Rgst
                                                                                                                     PRESENCE mandatory } |
     ID id-ERACH-CM-Rast
                                                    CRITICALITY reject TYPE ERACH-CM-Rgst
                                                                                                                     PRESENCE mandatory }
        -- FDD only
ERACH-CM-Rqst ::= SEQUENCE {
    C-TD
                                    C-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { ERACHItem-CM-Rgst-ExtIEs} } OPTIONAL.
ERACHItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-CM-Rqst ::= SEQUENCE {
```

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C-ID,
   c-ID
   timeSlot
                                 TimeSlot
                                            OPTIONAL, -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
   iE-Extensions
                                 ProtocolExtensionContainer { CellItem-CM-Rgst-ExtIEs} }
                                                                                                            OPTIONAL.
CellItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeSlotLCR-CM-Rqst
                                                 CRITICALITY reject EXTENSION TimeSlotLCR
                                                                                                                       PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
    {ID id-NeighbouringCellMeasurementInformation
                                                CRITICALITY ignore EXTENSION NeighbouringCellMeasurementInformation
                                                                                                                       PRESENCE optional
    {ID id-UARFCNforNt
                                                 CRITICALITY reject EXTENSION UARFON
                                                                                                                       PRESENCE optional } |
   -- Mandatory for 1.28Mcps TDD when using multiple frequencies and the requested common measurementype is the one except for "HS-DSCH Required
Power" or "HS-DSCH Provided Bit Rate"
   {ID id-UPPCHPositionLCR
                                                 CRITICALITY reject EXTENSION UPPCHPositionLCR
                                                                                                                       PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
   {ID id-AdditionalTimeSlotListLCR
                                                 CRITICALITY ignore EXTENSION AdditionalTimeSlotListLCR
                                                                                                                       PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only
RACH-CM-Rgst ::= SEQUENCE {
                                  C-ID,
   c-ID
   commonTransportChannelID
                                  CommonTransportChannelID,
   iE-Extensions
                                 OPTIONAL,
RACHItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerLocalCellGroup-CM-Rqst ::= SEQUENCE {
   powerLocalCellGroupID
                                 Local-Cell-ID,
                                 ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rqst-ExtIEs }}
   iE-Extensions
                                                                                                            OPTIONAL,
PowerLocalCellGroup-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ********************
-- COMMON MEASUREMENT INITIATION RESPONSE
__ *********************
CommonMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                     {{CommonMeasurementInitiationResponse-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
                                                                                                                OPTIONAL,
CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
```

```
ID id-MeasurementID
                                                     CRITICALITY ignore
                                                                             TYPE MeasurementID
                                                                                                                          PRESENCE
                                                                                                                                         mandatory
      ID id-CommonMeasurementObjectType-CM-Rsp
                                                     CRITICALITY ignore
                                                                             TYPE CommonMeasurementObjectType-CM-Rsp
                                                                                                                          PRESENCE
                                                                                                                                         optional
      ID id-SFN
                                                     CRITICALITY ignore
                                                                             TYPE SFN
                                                                                                                          PRESENCE
                                                                                                                                          optional
     ID id-CriticalityDiagnostics
                                                                             TYPE CriticalityDiagnostics
                                                     CRITICALITY ignore
                                                                                                                          PRESENCE
                                                                                                                                         optional
CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-CommonMeasurementAccuracy
                                                     CRITICALITY ignore
                                                                                                                                          PRESENCE
                                                                             EXTENSION CommonMeasurementAccuracy
optional }|
    { ID id-MeasurementRecoverySupportIndicator
                                                     CRITICALITY ignore
                                                                             EXTENSION MeasurementRecoverySupportIndicator
                                                                                                                                          PRESENCE
optional }
     ID id-Reference-ReceivedTotalWideBandPowerSupportIndicator
                                                                                 CRITICALITY ignore
                                                                                                                          EXTENSION
                                                                                                                                          Reference-
ReceivedTotalWideBandPowerSupportIndicator
                                                 PRESENCE optional } |
     ID id-Reference-ReceivedTotalWideBandPower
                                                                                 CRITICALITY ignore
                                                                                                                          EXTENSION
                                                                                                                                          Reference-
ReceivedTotalWideBandPower
                                                 PRESENCE optional },
CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
    cell
                                                         Cell-CM-Rsp,
    rACH
                                                         RACH-CM-Rsp,
    notUsed-cPCH
                                                         NULL,
    extension-CommonMeasurementObjectType-CM-Rsp
                                                         Extension-CommonMeasurementObjectType-CM-Rsp
Extension-CommonMeasurementObjectType-CM-Rsp ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RspIE }}
Extension-CommonMeasurementObjectType-CM-RspIE NBAP-PROTOCOL-IES ::= {
                                                     CRITICALITY ignore
      ID id-Power-Local-Cell-Group-choice-CM-Rsp
                                                                             TYPE PowerLocalCellGroup-CM-Rsp
                                                                                                                      PRESENCE mandatory } |
                                                     CRITICALITY ignore
                                                                                                                      PRESENCE mandatory }
     ID id-ERACH-CM-Rsp
                                                                             TYPE ERACH-CM-Rsp
        -- FDD only
ERACH-CM-Rsp ::= SEQUENCE {
    commonMeasurementValue
                                     CommonMeasurementValue,
                                     ProtocolExtensionContainer { { ERACHItem-CM-Rsp-ExtIEs} } OPTIONAL,
    iE-Extensions
ERACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-CM-Rsp ::= SEQUENCE {
    commonMeasurementValue
                                     CommonMeasurementValue,
    iE-Extensions
                                    ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} }
                                                                                                                      OPTIONAL,
    . . .
```

```
CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-AdditionalMeasurementValueList
                                           CRITICALITY ignore EXTENSION Additional Measurement Value List
                                                                                                         PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
   EXTENSION TimeSlotMeasurementValueListLCR
                                                                                                             PRESENCE optional },
-- Applicable to 1.28Mcps TDD, this IE is for the measurement value from the Primary frequency
RACH-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                CommonMeasurementValue,
                                ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                                         OPTIONAL,
RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerLocalCellGroup-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                CommonMeasurementValue,
                                ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rsp-ExtIEs}}
   iE-Extensions
                                                                                                            OPTIONAL,
   . . .
PowerLocalCellGroup-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ******************
  COMMON MEASUREMENT INITIATION FAILURE
  ***********************
CommonMeasurementInitiationFailure ::= SEQUENCE {
                         ProtocolIE-Container
                                                   {{CommonMeasurementInitiationFailure-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer
                                                  {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                            OPTIONAL,
CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                    CRITICALITY ignore
                                                                                                                   mandatory
                                                             TYPE MeasurementID
                                                                                                         PRESENCE
     ID id-Cause
                                    CRITICALITY ignore
                                                             TYPE Cause
                                                                                                         PRESENCE
                                                                                                                   mandatory
     ID id-CriticalityDiagnostics
                                    CRITICALITY ignore
                                                             TYPE CriticalityDiagnostics
                                                                                                         PRESENCE
                                                                                                                   optional
CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
__ **********************
```

```
-- COMMON MEASUREMENT REPORT
__ *********************
CommonMeasurementReport ::= SEQUENCE {
                                                      {{CommonMeasurementReport-IEs}},
   protocolIEs
                          ProtocolIE-Container
                                                    {{CommonMeasurementReport-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                              OPTIONAL,
CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID
                                                 CRITICALITY ignore
                                                                        TYPE MeasurementID
                                                                                                                         PRESENCE
   mandatory } |
    { ID id-CommonMeasurementObjectType-CM-Rprt
                                                                        TYPE CommonMeasurementObjectType-CM-Rprt
                                                 CRITICALITY ignore
                                                                                                                         PRESENCE
   mandatory } |
    { ID id-SFN
                                                 CRITICALITY ignore
                                                                        TYPE SFN
                                                                                                                         PRESENCE
   optional },
    . . .
CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    EXTENSION MeasurementRecoveryReportingIndicator
                                                                                                                                 PRESENCE
optional }
    { ID id-Reference-ReceivedTotalWideBandPower
                                                                        EXTENSION Reference-ReceivedTotalWideBandPower
                                                 CRITICALITY ignore
                                                                                                                                 PRESENCE
optional },
CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
   cell
                                                     Cell-CM-Rprt,
   rACH
                                                     RACH-CM-Rprt,
   notUsed-cPCH
                                                     NULL,
    extension-CommonMeasurementObjectType-CM-Rprt
                                                     Extension-CommonMeasurementObjectType-CM-Rprt
Extension-CommonMeasurementObjectType-CM-Rprt ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RprtIE }}
Extension-CommonMeasurementObjectType-CM-RprtIE NBAP-PROTOCOL-IES ::= {
     ID id-Power-Local-Cell-Group-choice-CM-Rprt CRITICALITY ignore
                                                                        TYPE PowerLocalCellGroup-CM-Rprt
                                                                                                              PRESENCE mandatory } |
                                                                                                              PRESENCE mandatory },
    { ID id-ERACH-CM-Rprt
                                                 CRITICALITY ignore
                                                                        TYPE ERACH-CM-Rprt
    . . .
ERACH-CM-Rprt ::= SEQUENCE {
    commonMeasurementValueInformation
                                      CommonMeasurementValueInformation,
                                      ProtocolExtensionContainer {{ ERACHItem-CM-Rprt-ExtIEs }} OPTIONAL,
   iE-Extensions
ERACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
Cell-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation
                                   CommonMeasurementValueInformation.
   iE-Extensions
                                    ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
                                                                                                            OPTIONAL,
   . . .
CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-C-ID
                                       CRITICALITY ignore
                                                             EXTENSION C-ID
                                                                                      PRESENCE optional } |
   ID id-AdditionalMeasurementValueList
                                                                                                        PRESENCE optional } |
                                       CRITICALITY ignore
                                                             EXTENSION AdditionalMeasurementValueList
   -- Applicable to 1.28Mcps TDD only
   EXTENSION TimeSlotMeasurementValueListLCR
                                                                                                            PRESENCE optional },
-- Applicable to 1.28Mcps TDD, this IE is for the measurement value from the Primary frequency
RACH-CM-Rprt ::= SEQUENCE {
                                   CommonMeasurementValueInformation,
   commonMeasurementValueInformation
                                    iE-Extensions
                                                                                                                   OPTIONAL,
   . . .
RACHItem-CM-Rort-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                                                                        PRESENCE optional },
   {ID id-C-ID
                     CRITICALITY ignore
                                               EXTENSION C-ID
   . . .
PowerLocalCellGroup-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation
                                   CommonMeasurementValueInformation,
                                    ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rprt-ExtIEs}}
   iE-Extensions
                                                                                                        OPTIONAL,
PowerLocalCellGroup-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
  COMMON MEASUREMENT TERMINATION REQUEST
  *****************
CommonMeasurementTerminationRequest ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                  {{CommonMeasurementTerminationRequest-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer
                                                  {{CommonMeasurementTerminationRequest-Extensions}}
                                                                                                            OPTIONAL,
CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-MeasurementID
                                CRITICALITY ignore
                                                             TYPE MeasurementID
                                                                                      PRESENCE mandatory },
```

OPTIONAL.

```
CommonMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  COMMON MEASUREMENT FAILURE INDICATION
  **********************
CommonMeasurementFailureIndication ::= SEQUENCE {
   protocolIEs
                              ProtocolIE-Container
                                                           {CommonMeasurementFailureIndication-IEs}},
   protocolExtensions
                              ProtocolExtensionContainer
                                                        {{CommonMeasurementFailureIndication-Extensions}}
CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                          CRITICALITY ignore
                                                             TYPE MeasurementID
                                                                                        PRESENCE mandatory } |
    { ID id-Cause
                                  CRITICALITY ignore
                                                                                        PRESENCE mandatory },
                                                             TYPE Cause
CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- CELL SETUP REQUEST FDD
__ ********************************
CellSetupRequestFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{CellSetupRequestFDD-IEs}},
                          ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}}
   protocolExtensions
                                                                                            OPTIONAL,
CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-ID
                                                             CRITICALITY reject TYPE Local-Cell-ID
   PRESENCE mandatory } |
    { ID id-C-ID
                                                             CRITICALITY reject TYPE C-ID
    PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID
                                                             CRITICALITY reject TYPE ConfigurationGenerationID
   PRESENCE mandatory } |
                                                             CRITICALITY reject TYPE T-Cell
    { ID id-T-Cell
    PRESENCE mandatory } |
    { ID id-UARFCNforNu
                                                             CRITICALITY reject TYPE UARFON
    PRESENCE mandatory }
    { ID id-UARFCNforNd
                                                             CRITICALITY reject TYPE UARFON
    PRESENCE mandatory } |
    { ID id-MaximumTransmissionPower
                                                             CRITICALITY reject TYPE MaximumTransmissionPower
    PRESENCE mandatory } |
```

```
{ ID id-Closed-Loop-Timing-Adjustment-Mode
                                                              CRITICALITY reject TYPE Closedlooptimingadjustmentmode
                                                                                                                                   PRESENCE
optional }|
    { ID id-PrimaryScramblingCode
                                                              CRITICALITY reject TYPE PrimaryScramblingCode
    PRESENCE mandatory } |
    { ID id-Synchronisation-Configuration-Cell-SetupRgst
                                                              CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
    PRESENCE
               mandatory }
    { ID id-DL-TPC-Pattern01Count.
                                                              CRITICALITY reject TYPE DL-TPC-Pattern01Count
    PRESENCE mandatory } |
    { ID id-PrimarySCH-Information-Cell-SetupRqstFDD
                                                              CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD
       PRESENCE
                   mandatory } |
    { ID id-SecondarySCH-Information-Cell-SetupRgstFDD
                                                              CRITICALITY reject TYPE SecondarySCH-Information-Cell-SetupRqstFDD
    PRESENCE mandatory } |
    { ID id-PrimaryCPICH-Information-Cell-SetupRgstFDD
                                                              CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-SetupRgstFDD
    PRESENCE
               mandatory } |
    { ID id-SecondaryCPICH-InformationList-Cell-SetupRgstFDD
                                                              CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD
    PRESENCE
               optional }
    { ID id-PrimaryCCPCH-Information-Cell-SetupRgstFDD
                                                              CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-SetupRgstFDD
    PRESENCE
               mandatory }
    { ID id-Limited-power-increase-information-Cell-SetupRqstFDD
                                                                  CRITICALITY reject TYPE Limited-power-increase-information-Cell-SetupRqstFDD
       PRESENCE mandatory },
CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::=
    { ID id-IPDLParameter-Information-Cell-SetupRqstFDD
                                                          CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstFDD
       PRESENCE optional } |
    { ID id-CellPortion-InformationList-Cell-SetupRgstFDD
                                                          CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-SetupRgstFDD
       PRESENCE optional } |
     ID id-MIMO-PilotConfiguration
                                                          CRITICALITY reject EXTENSION MIMO-PilotConfiguration
                                                                                                                            PRESENCE optional }
     ID id-MIMO-PilotConfigurationExtension
                                                          CRITICALITY reject EXTENSION MIMO-PilotConfigurationExtension
                           PRESENCE optional },
Synchronisation-Configuration-Cell-SetupRgst ::= SEOUENCE
   n-INSYNC-IND
                          N-INSYNC-IND,
   n-OUTSYNC-IND
                          N-OUTSYNC-IND,
    t-RLFAILURE
                           T-RLFAILURE,
                           ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-SetupRqst-ExtIEs} }
   iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
Synchronisation-Configuration-Cell-SetupRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimarySCH-Information-Cell-SetupRgstFDD ::= SEOUENCE
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    primarySCH-Power
                                          DL-Power,
    tSTD-Indicator
                                          TSTD-Indicator,
                                          iE-Extensions
                                                                                                                                   OPTIONAL,
```

```
PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondarySCH-Information-Cell-SetupRgstFDD ::= SEQUENCE
                                          CommonPhysicalChannelID,
    commonPhysicalChannelID
    secondarySCH-Power
                                          DL-Power,
    tSTD-Indicator
                                          TSTD-Indicator,
                                          ProtocolExtensionContainer { { SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                                   OPTIONAL,
PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
                                          PrimaryCPICH-Power,
    primaryCPICH-Power
   transmitDiversityIndicator
                                          TransmitDiversityIndicator,
   iE-Extensions
                                          ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondaryCPICH-InformationList-Cell-SetupRgstFDD ::= SEOUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container { SecondaryCPICH-
InformationItemIE-Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
     ID id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
                                                                 CRITICALITY reject TYPE SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
    PRESENCE mandatory }
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    dl-ScramblingCode
                                          DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                          FDD-DL-ChannelisationCodeNumber,
    secondaryCPICH-Power
                                          DL-Power,
    transmitDiversityIndicator
                                          TransmitDiversityIndicator,
                                          ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   bCH-information
                                          BCH-Information-Cell-SetupRqstFDD,
```

```
sTTD-Indicator
                                       STTD-Indicator,
   iE-Extensions
                                       ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRgstFDD-ExtIEs} }
                                                                                                                        OPTIONAL.
PrimaryCCPCH-Information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-Information-Cell-SetupRgstFDD ::= SEQUENCE {
   commonTransportChannelID
                                       CommonTransportChannelID,
   bCH-Power
                                       DL-Power,
   iE-Extensions
                                       OPTIONAL,
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
   powerRaiseLimit
                                       PowerRaiseLimit,
   dLPowerAveragingWindowSize
                                       DLPowerAveragingWindowSize,
   iE-Extensions
                                       ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRgstFDD-ExtIEs} }
   OPTIONAL,
   . . .
Limited-power-increase-information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-SetupRqstFDD::= SEQUENCE {
   iPDL-FDD-Parameters
                                       IPDL-FDD-Parameters,
   iPDL-Indicator
                                       IPDL-Indicator,
                                       ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellPortion-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container{{ CellPortion-
InformationItemIE-Cell-SetupRqstFDD }}
CellPortion-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
CellPortion-InformationItem-Cell-SetupRqstFDD::= SEQUENCE
   cellPortionID
                                       CellPortionID,
```

```
associatedSecondaryCPICH
                                           CommonPhysicalChannelID,
    maximumTransmissionPowerforCellPortion MaximumTransmissionPower,
    iE-Extensions
                                           ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-SetupRgstFDD-ExtIEs} }
    OPTIONAL.
    . . .
CellPortion-InformationItem-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- CELL SETUP REQUEST TDD
     *****************
CellSetupRequestTDD ::= SEQUENCE {
                                                        {{CellSetupRequestTDD-IEs}},
    protocolIEs
                           ProtocolIE-Container
                                                      {{CellSetupRequestTDD-Extensions}}
                           ProtocolExtensionContainer
    protocolExtensions
                                                                                               OPTIONAL,
CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-ID
                                                           CRITICALITY reject TYPE Local-Cell-ID
    PRESENCE mandatory } |
    { ID id-C-ID
                                                           CRITICALITY reject TYPE C-ID
    PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID
                                                           CRITICALITY reject TYPE ConfigurationGenerationID
    PRESENCE mandatory } |
    { ID id-UARFCNforNt
                                                           CRITICALITY reject TYPE UARFON
    PRESENCE mandatory } |
                           -- For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency
of Primary frequency
    { ID id-CellParameterID
                                                           CRITICALITY reject TYPE CellParameterID
    PRESENCE mandatory } |
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE indicate the Preamble code used in the Special Time Slot (TS 25.221
[19])
    { ID id-MaximumTransmissionPower
                                                           CRITICALITY reject TYPE MaximumTransmissionPower
    PRESENCE mandatory } |
    { ID id-TransmissionDiversityApplied
                                                           CRITICALITY reject TYPE TransmissionDiversityApplied
    PRESENCE mandatory } |
    { ID id-SyncCase
                                                           CRITICALITY reject TYPE SyncCase
    PRESENCE mandatory } |
    { ID id-Synchronisation-Configuration-Cell-SetupRqst
                                                           CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
                                                                                                                                      PRESENCE
mandatory } |
    { ID id-DPCHConstant
                                                           CRITICALITY reject TYPE ConstantValue
    PRESENCE mandatory } |
                           -- This IE shall be ignored by the Node B.
    { ID id-PUSCHConstant
                                                           CRITICALITY reject TYPE ConstantValue
    PRESENCE mandatory } |
                           -- This IE shall be ignored by the Node B.
    { ID id-PRACHConstant
                                                           CRITICALITY reject TYPE ConstantValue
    PRESENCE mandatory } -- This IE shall be ignored by the Node B.
    { ID id-TimingAdvanceApplied
                                                           CRITICALITY reject TYPE TimingAdvanceApplied
    PRESENCE mandatory } |
```

```
{ ID id-SCH-Information-Cell-SetupRqstTDD
                                                         CRITICALITY reject TYPE SCH-Information-Cell-SetupRqstTDD
    PRESENCE optional } -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
                                                         CRITICALITY reject TYPE PCCPCH-Information-Cell-SetupRostTDD
    { ID id-PCCPCH-Information-Cell-SetupRgstTDD
    PRESENCE optional }
                         -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
    { ID id-TimeSlotConfigurationList-Cell-SetupRgstTDD
                                                         CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-SetupRqstTDD
                                                                                                                                 PRESENCE
optional }, -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD
                                                             CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD
    PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. If multiple frequencies exist within the
cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary frequency.
    { ID id-PCCPCH-LCR-Information-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION PCCPCH-LCR-Information-Cell-SetupRgstTDD
       PRESENCE optional } -- Mandatory for 1.28 Mcps TDD, Not Applicable to 3.84 Mcps TDD or 7.68 Mcps TDD, For 1.28 Mcps TDD, if the cell is
operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot (TS 25.221 [19]).
    { ID id-DwPCH-LCR-Information-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-SetupRgstTDD
       PRESENCE optional }
                              -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    { ID id-ReferenceSFNoffset
                                                             CRITICALITY ignore EXTENSION ReferenceSFNoffset
                   PRESENCE optional }
    { ID id-IPDLParameter-Information-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstTDD
       PRESENCE optional } -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
    { ID id-IPDLParameter-Information-LCR-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-SetupRqstTDD
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-PCCPCH-768-Information-Cell-SetupRqstTDD
                                                             CRITICALITY reject EXTENSION PCCPCH-768-Information-Cell-SetupRqstTDD
       PRESENCE optional }
                            -- Mandatory for 7.68Mcps TDD, Not Applicable to 3.84Mcps TDD or 1.28Mcps TDD
    { ID id-SCH-768-Information-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION SCH-768-Information-Cell-SetupRgstTDD
       PRESENCE optional } -- Mandatory for 7.68Mcps TDD, Not Applicable to 3.84Mcps TDD or 1.28Mcps TDD
    { ID id-MBSFN-Only-Mode-Indicator-Cell-SetupRgstTDD-LCR
                                                             CRITICALITY reject EXTENSION MBSFN-Only-Mode-Indicator
                   PRESENCE optional }
    { ID id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD CRITICALITY reject EXTENSION Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD
       PRESENCE optional }, -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
SCH-Information-Cell-SetupRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    syncCaseIndicator
                                          SyncCaseIndicator-Cell-SetupRgstTDD-PSCH,
    sCH-Power
                                          DL-Power,
    tSTD-Indicator
                                          TSTD-Indicator,
                                          ProtocolExtensionContainer { { SCH-Information-Cell-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
SCH-Information-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncCaseIndicator-Cell-SetupRgstTDD-PSCH ::= ProtocolIE-Single-Container {{ SyncCaseIndicatorIE-Cell-SetupRgstTDD-PSCH }}
SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
```

```
SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH ::= CHOICE {
    case1
                                      Case1-Cell-SetupRgstTDD,
   case2
                                      Case2-Cell-SetupRqstTDD,
    . . .
Case1-Cell-SetupRqstTDD ::= SEQUENCE {
   timeSlot
                                      TimeSlot,
   iE-Extensions
                                      ProtocolExtensionContainer { CaselItem-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                    OPTIONAL,
CaselItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
Case2-Cell-SetupRgstTDD ::= SEQUENCE {
   sCH-TimeSlot
                                      SCH-TimeSlot,
   iE-Extensions
                                      OPTIONAL,
Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                          TDD-PhysicalChannelOffset,
   repetitionPeriod
                                          RepetitionPeriod,
                                          RepetitionLength,
   repetitionLength
   pCCPCH-Power
                                          PCCPCH-Power,
   sCTD-Indicator
                                          SCTD-Indicator,
                                          ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                  OPTIONAL.
PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
TimeSlotConfigurationList-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-SetupRqstTDD
TimeSlotConfigurationItem-Cell-SetupRqstTDD ::= SEQUENCE {
   timeSlot
                                          TimeSlot,
   timeSlotStatus
                                          TimeSlotStatus,
   timeSlotDirection
                                          TimeSlotDirection,
   iE-Extensions
                                          ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs} }
   OPTIONAL,
TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-MBSFN-Cell-ParameterID-Cell-SetupRgstTDD
                                                                                                                          PRESENCE optional }, --
                                                                 CRITICALITY reject EXTENSION CellParameterID
Applicable only to for MBSFN only mode
    . . .
TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-SetupRgstTDD
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Time-Slot-Parameter-ID
                                                            CRITICALITY reject
                                                                                         EXTENSION CellParameterID
                                                                                                                                         PRESENCE
optional },
PCCPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pCCPCH-Power
                                            PCCPCH-Power,
                                            SCTD-Indicator,
    sCTD-Indicator
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { PCCPCH-LCR-Information-Cell-SetupRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
PCCPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DwPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId
                                    CommonPhysicalChannelID,
    tSTD-Indicator
                                    TSTD-Indicator,
                                    DwPCH-Power.
    dwPCH-Power
    iE-Extensions
                                    ProtocolExtensionContainer { | DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    iPDL-TDD-Parameters
                                            IPDL-TDD-Parameters,
    iPDL-Indicator
                                            IPDL-Indicator,
```

```
ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
    . . .
IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
   iPDL-TDD-Parameters-LCR
                                          IPDL-TDD-Parameters-LCR,
   iPDL-Indicator
                                          IPDL-Indicator,
   iE-Extensions
                                          ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-SetupRgstTDD-ExtIEs} }
   OPTIONAL,
    . . .
IPDLParameter-Information-LCR-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-768-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                          CommonPhysicalChannelID768,
                                          TDD-PhysicalChannelOffset,
    tdd-PhysicalChannelOffset
   repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
                                          PCCPCH-Power,
   pCCPCH-Power
   sCTD-Indicator
                                          SCTD-Indicator,
                                          ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-SetupRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                  OPTIONAL,
PCCPCH-768-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SCH-768-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                          CommonPhysicalChannelID768,
    syncCaseIndicator
                                          SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
    sCH-Power
                                          DL-Power,
   tSTD-Indicator
                                          TSTD-Indicator,
                                          iE-Extensions
                                                                                                                                  OPTIONAL,
SCH-768-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF Cell-Frequency-Item-LCR-MulFreq-Cell-
SetupRqstTDD
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE
    uARFCN
                                                          UARFCN,
```

```
-- This IE indicates the frequency of Secondary frequency
   timeSlotConfigurationList-LCR-Cell-SetupRgstTDD
                                                    TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD,
   -- This IE indicates the Time Slot configuration of Secondary frequency
   iE-Extensions
                                      ProtocolExtensionContainer { { Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs} }
   OPTIONAL,
   . . .
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
  CELL SETUP RESPONSE
__ ********************
CellSetupResponse ::= SEQUENCE
                                                     {{CellSetupResponse-IEs}},
   protocolIEs
                            ProtocolIE-Container
   protocolExtensions
                            ProtocolExtensionContainer {{CellSetupResponse-Extensions}}
                                                                                                      OPTIONAL,
CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                  CRITICALITY ignore
                                                           TYPE CriticalityDiagnostics
                                                                                                      PRESENCE optional },
CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ****************
-- CELL SETUP FAILURE
CellSetupFailure ::= SEQUENCE {
                                                 {{CellSetupFailure-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{CellSetupFailure-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                      CRITICALITY ignore
                                                               TYPE Cause
                                                                                                         PRESENCE mandatory
   { ID id-CriticalityDiagnostics
                                      CRITICALITY ignore
                                                               TYPE CriticalityDiagnostics
                                                                                                         PRESENCE optional
CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
-- CELL RECONFIGURATION REQUEST FDD
__ *********************
CellReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                      {{CellReconfigurationRequestFDD-IEs}},
                          ProtocolExtensionContainer {{CellReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-C-ID
                                                                 CRITICALITY reject TYPE C-ID
                          PRESENCE mandatory }
           id-ConfigurationGenerationID
    { ID
                                                                 CRITICALITY reject TYPE ConfigurationGenerationID
                   PRESENCE mandatory } |
           id-MaximumTransmissionPower
                                                                 CRITICALITY reject TYPE MaximumTransmissionPower
                   PRESENCE optional } |
    { ID
           id-Synchronisation-Configuration-Cell-ReconfRqst
                                                                 CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
    PRESENCE optional }
          id-PrimarySCH-Information-Cell-ReconfRqstFDD
                                                                 CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional } |
    { ID id-SecondarySCH-Information-Cell-ReconfRqstFDD
                                                                 CRITICALITY reject TYPE SecondarySCH-Information-Cell-ReconfRqstFDD
       PRESENCE optional } |
    { ID id-PrimaryCPICH-Information-Cell-ReconfRgstFDD
                                                                 CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-ReconfRgstFDD
       PRESENCE optional } |
          id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD
                                                                 CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-ReconfRgstFDD
    PRESENCE optional } |
    { ID id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
                                                                 CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
       PRESENCE optional },
    . . .
CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ID id-IPDLParameter-Information-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
           PRESENCE optional }
    { ID id-CellPortion-InformationList-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-ReconfRqstFDD
       PRESENCE optional } |
    { ID id-MIMO-PilotConfiguration
                                                         CRITICALITY reject EXTENSION MIMO-PilotConfiguration
                   PRESENCE optional }
    { ID id-MIMO-PilotConfigurationExtension
                                                         CRITICALITY reject EXTENSION MIMO-PilotConfigurationExtension
                          PRESENCE optional } |
    { ID id-DormantModeIndicator
                                                         CRITICALITY reject EXTENSION DormantModeIndicator
                                                                                                                   PRESENCE optional \}.
Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
   n-INSYNC-IND
                          N-INSYNC-IND,
   n-OUTSYNC-IND
                          N-OUTSYNC-IND,
    t-RLFAILURE
                          T-RLFAILURE,
                          ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
    . . .
```

```
Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   primarySCH-Power
                                        DL-Power,
                                        ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                             OPTIONAL,
PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
                                        CommonPhysicalChannelID,
   commonPhysicalChannelID
   secondarySCH-Power
                                        DL-Power,
   iE-Extensions
                                        ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} }
   OPTIONAL,
SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   primaryCPICH-Power
                                        PrimaryCPICH-Power,
   iE-Extensions
                                        ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs} }
   OPTIONAL,
   . . .
PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   secondaryCPICH-Power
                                        DL-Power,
   iE-Extensions
                                        ProtocolExtensionContainer { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
   OPTIONAL,
```

```
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
   bCH-information
                                       BCH-information-Cell-ReconfRqstFDD,
                                       ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
PrimaryCCPCH-Information-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-information-Cell-ReconfRgstFDD ::= SEQUENCE {
   commonTransportChannelID
                                       CommonTransportChannelID,
   bCH-Power
                                       DL-Power,
                                       iE-Extensions
                                                                                                                 OPTIONAL,
BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE {
   iPDL-FDD-Parameters
                                          IPDL-FDD-Parameters
                                                                OPTIONAL,
   iPDL-Indicator
                                          IPDL-Indicator,
   iE-Extensions
                                       ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs} }
   OPTIONAL,
   . . .
IPDLParameter-Information-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellPortion-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container {{ CellPortion-
InformationItemIE-Cell-ReconfRqstFDD }}
CellPortion-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
CellPortion-InformationItem-Cell-ReconfRqstFDD::= SEQUENCE {
   cellPortionID
                                       CellPortionID,
   maximumTransmissionPowerforCellPortion MaximumTransmissionPower,
   iE-Extensions
                                       ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
   OPTIONAL,
```

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```
CellPortion-InformationItem-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- CELL RECONFIGURATION REQUEST TDD
  ****************
CellReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                ProtocolIE-Container
                                                   {{CellReconfigurationRequestTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
                                                                                                             OPTIONAL,
CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
   { TD id-C-TD
                                                      CRITICALITY reject TYPE C-ID
                                                                                                                           PRESENCE
mandatory } |
   { ID id-ConfigurationGenerationID
                                                       CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                           PRESENCE
mandatory }|
    { ID id-Synchronisation-Configuration-Cell-ReconfRqst
                                                      CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
   PRESENCE optional } |
    { ID id-TimingAdvanceApplied
                                                                                                                           PRESENCE
                                                      CRITICALITY reject TYPE TimingAdvanceApplied
optional }|
   { ID id-SCH-Information-Cell-ReconfRgstTDD
                                                                                                                    PRESENCE optional } |
                                                      CRITICALITY reject TYPE SCH-Information-Cell-ReconfRqstTDD
   -- Applicable to 3.84Mcps TDD only
   { ID id-PCCPCH-Information-Cell-ReconfRqstTDD
                                                      CRITICALITY reject TYPE PCCPCH-Information-Cell-ReconfRqstTDD
                                                                                                                    PRESENCE optional }
   -- Not applicable to 7.68Mcps TDD only. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special
Time Slot (TS 25.221 [19]).
   { ID id-MaximumTransmissionPower
                                                       CRITICALITY reject TYPE MaximumTransmissionPower
                                                                                                                           PRESENCE
optional }|
   { ID id-DPCHConstant
                                                       CRITICALITY reject TYPE ConstantValue
                                                                                                                           PRESENCE
optional }|
   -- This IE shall be ignored by the Node B.
   { ID id-PUSCHConstant
                                                       CRITICALITY reject TYPE ConstantValue
                                                                                                                           PRESENCE
optional }|
   -- This IE shall be ignored by the Node B.
   { ID id-PRACHConstant
                                                      CRITICALITY reject TYPE ConstantValue
                                                                                                                           PRESENCE
optional }|
   -- This IE shall be ignored by the Node B.
   PRESENCE optional },
   -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD only. Not Applicable to 1.28Mcps TDD.
CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
   PRESENCE optional } |
                       -- Applicable to 1.28Mcps TDD only, If multiple frequencies exist within the cell indicated by C-ID, this IE indicates
the Time Slot reconfiguration of Primary frequency
```

```
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD
                                                             CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-ReconfRqstTDD
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-IPDLParameter-Information-Cell-ReconfRostTDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfrostTDD
    PRESENCE optional } -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
         id-IPDLParameter-Information-LCR-Cell-ReconfRgstTDD CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-ReconfRgstTDD
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-SCH-768-Information-Cell-ReconfRgstTDD
                                                             CRITICALITY reject EXTENSION SCH-768-Information-Cell-ReconfRqstTDD
       PRESENCE optional } -- Applicable to 7.68Mcps TDD only
    { ID id-PCCPCH-768-Information-Cell-ReconfRqstTDD
                                                             CRITICALITY reject EXTENSION PCCPCH-768-Information-Cell-ReconfRqstTDD
                             -- Applicable to 7.68Mcps TDD only
       PRESENCE optional }
    { ID id-UARFCN-Adjustment
                                                                                                                   PRESENCE optional } | --
                                                             CRITICALITY reject EXTENSION UARFCN-Adjustment
Applicable to 1.28Mcps TDD when using multiple frequencies
    { ID id-DormantModeIndicator
                                                         CRITICALITY reject EXTENSION DormantModeIndicator
                                                                                                                   PRESENCE optional },
}
SCH-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    sCH-Power
                                          DL-Power,
                                          ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                 OPTIONAL,
PSCH-Information-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   pCCPCH-Power
                                          PCCPCH-Power,
   iE-Extensions
                                          OPTIONAL,
PCCPCH-Information-Cell-ReconfrastTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotConfigurationList-Cell-ReconfRgstTDD ::= SEOUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-ReconfRgstTDD
TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
   timeSlot
                                          TimeSlot.
    timeSlotStatus
                                          TimeSlotStatus,
   timeSlotDirection
                                          TimeSlotDirection,
   iE-Extensions
                                          ProtocolExtensionContainer { TimeSlotConfigurationItem-Cell-ReconfRgstTDD-ExtIEs} }
   OPTIONAL,
TimeSlotConfigurationItem-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MBSFN-Cell-ParameterID-Cell-ReconfRqstTDD
                                                             CRITICALITY reject EXTENSION CellParameterID
                                                                                                                   PRESENCE optional },
    . . .
```

```
TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD
TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
   timeSlotLCR
                                          TimeSlotLCR.
   timeSlotStatus
                                          TimeSlotStatus.
   timeSlotDirection
                                          TimeSlotDirection,
                                          ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DwPCH-LCR-Information-Cell-ReconfRgstTDD ::= SEQUENCE
   commonPhysicalChannelId
                                          CommonPhysicalChannelID,
   dwPCH-Power
                                          DwPCH-Power,
                                          ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                  OPTIONAL,
DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-ReconfRqstTDD ::= SEQUENCE
   iPDL-TDD-Parameters
                                          IPDL-TDD-Parameters
                                                                 OPTIONAL,
   iPDL-Indicator
                                          IPDL-Indicator,
                                          ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
IPDLParameter-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
   iPDL-TDD-Parameters-LCR
                                          IPDL-TDD-Parameters-LCR
                                                                     OPTIONAL,
   iPDL-Indicator
                                          IPDL-Indicator,
                                          ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SCH-768-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID768
                                          CommonPhysicalChannelID768,
   sCH-Power
                                          DL-Power,
                                          iE-Extensions
                                                                                                                                  OPTIONAL,
```

```
PSCH-768-Information-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-768-Information-Cell-ReconfRgstTDD ::= SEOUENCE {
    commonPhysicalChannelID768
                                            CommonPhysicalChannelID768,
    pCCPCH-Power
                                            PCCPCH-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-ReconfRqstTDD-ExtIEs} }
                                                                                                                                        OPTIONAL,
    . . .
PCCPCH-768-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UARFCN-Adjustment::= CHOICE
    cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD
                                                                    Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD,
    cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD
                                                                    Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD,
    cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD
                                                                    Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD,
Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE
    -- This IE indicates the frequency of Secondary frequency to add
    timeSlotConfigurationList-LCR-Cell-ReconfRgstTDD
                                                            TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD,
    -- This IE indicates the Time Slot configuration of Secondary frequency to add
                                            ProtocolExtensionContainer { { Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF Cell-Frequency-ModifyItem-LCR-MulFreq-
Cell-ReconfRqstTDD
Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE
    -- This IE indicates the frequency of Secondary frequency to modify
    timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
                                                            TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD,
    -- This IE indicates the Time Slot reconfiguration of Secondary frequency
                                            ProtocolExtensionContainer { { Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE {
   -- This IE indicates the frequency of Secondary Frequency to delete
                                     ProtocolExtensionContainer { { Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
  CELL RECONFIGURATION RESPONSE
  CellReconfigurationResponse ::= SEQUENCE {
   protocolIEs
                 ProtocolIE-Container
                                                   {{CellReconfigurationResponse-IEs}},
                          ProtocolExtensionContainer {{CellReconfigurationResponse-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
   . . .
CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                 CRITICALITY ignore
                                                         TYPE CriticalityDiagnostics
                                                                                                  PRESENCE optional },
   . . .
CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   CELL RECONFIGURATION FAILURE
  CellReconfigurationFailure ::= SEQUENCE {
   protocolIEs
               ProtocolIE-Container
                                               {{CellReconfigurationFailure-IEs}},
                       ProtocolExtensionContainer {{CellReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    ID id-Cause
                                 CRITICALITY ignore
                                                         TYPE Cause
                                                                                                      PRESENCE mandatory
   { ID id-CriticalityDiagnostics
                                 CRITICALITY ignore
                                                         TYPE CriticalityDiagnostics
                                                                                                      PRESENCE optional
CellReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
*****************
-- CELL DELETION REQUEST
__ *******************
CellDeletionRequest ::= SEQUENCE {
                      ProtocolIE-Container
                                              {{CellDeletionRequest-IEs}},
   protocolIEs
   protocolExtensions ProtocolExtensionContainer {{CellDeletionRequest-Extensions}}
                                                                              OPTIONAL,
CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-C-ID
                      CRITICALITY reject
                                             TYPE C-ID
                                                           PRESENCE mandatory },
CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
  CELL DELETION RESPONSE
__ *********************
CellDeletionResponse ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                              {{CellDeletionResponse-IEs}},
   protocolExtensions
                      ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}
                                                                              OPTIONAL,
CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                CRITICALITY ignore
                                                       TYPE CriticalityDiagnostics
                                                                                               PRESENCE optional },
CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RESOURCE STATUS INDICATION
  *****************
ResourceStatusIndication ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                              {{ResourceStatusIndication-IEs}},
                                             {{ResourceStatusIndication-Extensions}}
   protocolExtensions
                      ProtocolExtensionContainer
                                                                                               OPTIONAL,
```

```
ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
     ID id-IndicationType-ResourceStatusInd
                                             CRITICALITY ignore TYPE IndicationType-ResourceStatusInd
                                                                                                                   PRESENCE mandatory } |
                                             CRITICALITY ignore TYPE Cause
                                                                                                                   PRESENCE optional },
    { ID id-Cause
ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
IndicationType-ResourceStatusInd ::= CHOICE {
   no-Failure
                                          No-Failure-ResourceStatusInd,
    serviceImpacting
                                          ServiceImpacting-ResourceStatusInd,
    . . .
No-Failure-ResourceStatusInd ::= SEQUENCE {
   local-Cell-InformationList
                                          Local-Cell-InformationList-ResourceStatusInd,
   local-Cell-Group-InformationList
                                          Local-Cell-Group-InformationList-ResourceStatusInd OPTIONAL,
                                          ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} }
   iE-Extensions
                                                                                                                 OPTIONAL,
    . . .
No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          id-Power-Local-Cell-Group-InformationList-ResourceStatusInd
                                                                        CRITICALITY
                                                                                        ignore
                                                                                                                          EXTENSION
    Power-Local-Cell-Group-InformationList-ResourceStatusInd
                                                                 PRESENCE
                                                                            optional
Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-
InformationItemIE-ResourceStatusInd }}
Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
   local-CellID
                                             Local-Cell-ID,
    addorDeleteIndicator
                                             AddorDeleteIndicator,
    dl-or-global-capacityCredit
                                             DL-or-Global-CapacityCredit
                                                                                        OPTIONAL.
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
   ul-capacityCredit
                                             UL-CapacityCredit
                                                                                        OPTIONAL.
                                             CommonChannelsCapacityConsumptionLaw
    commonChannelsCapacityConsumptionLaw
                                                                                        OPTIONAL.
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
                                             DedicatedChannelsCapacityConsumptionLaw
    dedicatedChannelsCapacityConsumptionLaw
                                                                                        OPTIONAL.
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
   maximumDL-PowerCapability
                                             MaximumDL-PowerCapability
                                                                                        OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
   minSpreadingFactor
                                             MinSpreadingFactor
                                                                                        OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
```

```
minimumDL-PowerCapability
                                              MinimumDL-PowerCapability
                                                                                         OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
    local-Cell-Group-ID
                                              Local-Cell-ID
                                                                                         OPTIONAL.
    iE-Extensions
                                              ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ReferenceClockAvailability
                                              CRITICALITY ignore EXTENSION ReferenceClockAvailability
                                                                                                                     PRESENCE optional }
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' and the Local Cell is related to a TDD cell
     ID id-Power-Local-Cell-Group-ID
                                              CRITICALITY ignore EXTENSION Local-Cell-ID
                                                                                                                     PRESENCE optional
                                                                                                                     PRESENCE optional }
     ID id-HSDPA-Capability
                                              CRITICALITY ignore EXTENSION HSDPA-Capability
     ID id-E-DCH-Capability
                                              CRITICALITY ignore EXTENSION E-DCH-Capability
                                                                                                                     PRESENCE optional } |
    { ID id-E-DCH-TTI2ms-Capability
                                              CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability
                                                                                                                     PRESENCE conditional }
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
                                              CRITICALITY ignore EXTENSION E-DCH-SF-Capability
    { ID id-E-DCH-SF-Capability
                                                                                                                     PRESENCE conditional } |
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
                                              CRITICALITY ignore EXTENSION E-DCH-HARQ-Combining-Capability
                                                                                                                     PRESENCE conditional } |
   { ID id-E-DCH-HARO-Combining-Capability
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
    { ID id-E-DCH-CapacityConsumptionLaw
                                              CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                                     PRESENCE optional } |
     ID id-F-DPCH-Capability
                                              CRITICALITY ignore EXTENSION F-DPCH-Capability
                                                                                                                     PRESENCE optional }
     ID id-E-DCH-TDD-CapacityConsumptionLaw
                                              CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                                                                                     PRESENCE optional }
     ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability
    PRESENCE optional }
    { ID id-Max-UE-DTX-Cycle
                                              CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle
                                                                                                                     PRESENCE conditional } |
    -- The IE shall be present if Continuous Packet Connectivity DTX-DRX Capability IE is present and set to 'Continuous Packet Connectivity DTX-
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Capability
    PRESENCE optional }
     ID id-MIMO-Capability
                                                                                                                     PRESENCE optional }
                                              CRITICALITY ignore EXTENSION MIMO-Capability
     ID id-SixtyfourOAM-DL-Capability
                                              CRITICALITY ignore EXTENSION SixtyfourOAM-DL-Capability
                                                                                                                     PRESENCE optional }
     ID id-MBMS-Capability
                                              CRITICALITY ignore EXTENSION MBMS-Capability
                                                                                                                     PRESENCE optional }
     ID id-Enhanced-FACH-Capability
                                              CRITICALITY ignore EXTENSION Enhanced-FACH-Capability
                                                                                                                     PRESENCE optional }
    ID id-Enhanced-PCH-Capability
                                              CRITICALITY ignore EXTENSION Enhanced-PCH-Capability
                                                                                                                     PRESENCE conditional } |
    -- The IE shall be present if Enhanced FACH Capability IE is set to 'Enhanced FACH Capable'.
                                                                                                                     PRESENCE optional }
     ID id-SixteenQAM-UL-Capability
                                              CRITICALITY ignore EXTENSION SixteenQAM-UL-Capability
     ID id-HSDSCH-MACdPDU-SizeCapability
                                              CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability
                                                                                                                     PRESENCE optional
     ID id-MBSFN-Only-Mode-Capability
                                              CRITICALITY ignore EXTENSION MBSFN-Only-Mode-Capability
                                                                                                                     PRESENCE optional
     ID id-F-DPCH-SlotFormatCapability
                                              CRITICALITY ignore EXTENSION F-DPCH-SlotFormatCapability
                                                                                                                     PRESENCE optional
     ID id-E-DCH-MACdPDU-SizeCapability
                                              CRITICALITY ignore EXTENSION E-DCH-MACdPDU-SizeCapability
                                                                                                                     PRESENCE optional
     ID id-Common-EDCH-Capability
                                                                                                                     PRESENCE optional
                                              CRITICALITY ignore EXTENSION Common-EDCH-Capability
     ID id-E-AI-Capability
                                              CRITICALITY ignore EXTENSION E-AI-Capability
                                                                                                                     PRESENCE optional }
    -- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
     ID id-Enhanced-UE-DRX-Capability
                                              CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability
                                                                                                                     PRESENCE optional
     ID id-Enhanced-UE-DRX-CapabilityLCR
                                          CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability
                                                                                                                     PRESENCE optional
     PRESENCE optional }
     ID id-SixtvfourOAM-DL-MIMO-Combined-Capability
                                                     CRITICALITY ignore
                                                                             EXTENSION SixtvfourOAM-DL-MIMO-Combined-Capability
optional}|
     ID id-Multi-Cell-Capability-Info
                                              CRITICALITY ignore EXTENSION Multi-Cell-Capability-Info
                                                                                                                     PRESENCE optional }
     ID id-Semi-PersistentScheduling-CapabilityLCR CRITICALITY ignore EXTENSION Semi-PersistentScheduling-CapabilityLCR
                                                                                                                            PRESENCE optional } |
     ID id-ContinuousPacketConnectivity-DRX-CapabilityLCR CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-CapabilityLCR
    PRESENCE optional } |
    { ID id-Common-E-DCH-HSDPCCH-Capability
                                              CRITICALITY ignore EXTENSION Common-E-DCH-HSDPCCH-Capability
                                                                                                                     PRESENCE optional } |
    -- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
```

```
PRESENCE optional }
     ID id-TxDiversityOnDLControlChannelsBvMIMOUECapability
                                                          CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability
   PRESENCE optional } |
     ID id-Single-Stream-MIMO-Capability
                                            CRITICALITY ignore EXTENSION Single-Stream-MIMO-Capability
                                                                                                              PRESENCE optional }
     ID id-Dual-Band-Capability-Info
                                            CRITICALITY ignore EXTENSION Dual-Band-Capability-Info
                                                                                                              PRESENCE optional }
     ID id-CellPortion-CapabilityLCR
                                            CRITICALITY ignore EXTENSION CellPortion-CapabilityLCR
                                                                                                              PRESENCE optional }
     ID id-Cell-Capability-Container
                                            CRITICALITY ignore EXTENSION Cell-Capability-Container
                                                                                                              PRESENCE optional
     ID id-TS0-CapabilityLCR
                                            CRITICALITY ignore EXTENSION TSO-CapabilityLCR
                                                                                                              PRESENCE optional
     ID id-PrecodingWeightSetRestriction
                                            CRITICALITY ignore EXTENSION PrecodingWeightSetRestriction
                                                                                                              PRESENCE optional }
     ID id-Adaptive-Special-Burst-Power-CapabilityLCR CRITICALITY ignore EXTENSION Adaptive-Special-Burst-Power-CapabilityLCR
                                                                                                                            PRESENCE
optional },
Local-Cell-Group-InformationList-ResourceStatusInd ::= SEOUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE-ResourceStatusInd }}
Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
Local-Cell-Group-InformationItem-ResourceStatusInd::= SEQUENCE {
   local-Cell-Group-ID
                                            Local-Cell-ID,
   dl-or-global-capacityCredit
                                            DL-or-Global-CapacityCredit,
   ul-capacityCredit
                                            UL-CapacityCredit
                                                                  OPTIONAL,
   commonChannelsCapacityConsumptionLaw
                                            CommonChannelsCapacityConsumptionLaw,
   dedicatedChannelsCapacityConsumptionLaw
                                            DedicatedChannelsCapacityConsumptionLaw,
                                            ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
     ID id-E-DCH-CapacityConsumptionLaw
                                           CRITICALITY ignore
                                                                  EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                              PRESENCE optional }
     ID id-E-DCH-TDD-CapacityConsumptionLaw
                                           CRITICALITY ignore
                                                                  EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                                                                              PRESENCE optional },
Power-Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-
Cell-Group-InformationItemIE-ResourceStatusInd }}
Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd
                                                                  CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-
ResourceStatusInd
                     PRESENCE mandatory }
Power-Local-Cell-Group-InformationItem-ResourceStatusInd::= SEQUENCE {
   power-Local-Cell-Group-ID
                                           Local-Cell-ID,
   maximumDL-PowerCapability
                                            MaximumDL-PowerCapability,
   iE-Extensions
                                            ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs} }
   OPTIONAL,
```

```
Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ServiceImpacting-ResourceStatusInd ::= SEQUENCE
     local-Cell-InformationList
                                                          Local-Cell-InformationList2-ResourceStatusInd OPTIONAL,
     local-Cell-Group-InformationList
                                                          Local-Cell-Group-InformationList2-ResourceStatusInd OPTIONAL,
     cCP-InformationList
                                                          CCP-InformationList-ResourceStatusInd
                                                                                                                         OPTIONAL,
                                                          Cell-InformationList-ResourceStatusInd
     cell-InformationList
                                                                                                                         OPTIONAL,
     iE-Extensions
                                                          ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs} }
                                                                                                                                                                                   OPTIONAL,
ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     { ID id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd
                                                                                                    CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList2-
                               PRESENCE optional
ResourceStatusInd
Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList3-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationList3-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-CellinNodeB}}
InformationItemIE2-ResourceStatusInd }}
Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
     PRESENCE mandatory }
Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
     local-Cell-ID
                                                               Local-Cell-ID,
     dl-or-global-capacityCredit
                                                               DL-or-Global-CapacityCredit
                                                                                                                    OPTIONAL,
     ul-capacityCredit
                                                               UL-CapacityCredit
                                                                                                                    OPTIONAL,
     commonChannelsCapacityConsumptionLaw
                                                               CommonChannelsCapacityConsumptionLaw
                                                                                                                    OPTIONAL,
     dedicatedChannelsCapacityConsumptionLaw
                                                               DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
     maximum-DL-PowerCapability
                                                               MaximumDL-PowerCapability
                                                                                                                    OPTIONAL,
     minSpreadingFactor
                                                               MinSpreadingFactor
                                                                                                                    OPTIONAL,
     minimumDL-PowerCapability
                                                               MinimumDL-PowerCapability
                                                                                                                    OPTIONAL,
     iE-Extensions
                                                          ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs} }
     OPTIONAL,
     . . .
Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
       ID id-ReferenceClockAvailability
                                                               CRITICALITY ignore EXTENSION ReferenceClockAvailability
                                                                                                                                                               PRESENCE optional }
       ID id-HSDPA-Capability
                                                               CRITICALITY ignore EXTENSION HSDPA-Capability
                                                                                                                                                               PRESENCE optional
       ID id-E-DCH-Capability
                                                               CRITICALITY ignore EXTENSION E-DCH-Capability
                                                                                                                                                               PRESENCE optional }
                                                               CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability
       ID id-E-DCH-TTI2ms-Capability
                                                                                                                                                               PRESENCE conditional }
     -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
     { ID id-E-DCH-SF-Capability
                                                               CRITICALITY ignore EXTENSION E-DCH-SF-Capability
                                                                                                                                                               PRESENCE conditional } |
     -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
     PRESENCE conditional } |
     -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
```

```
CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                                 PRESENCE optional } |
     ID id-E-DCH-CapacityConsumptionLaw
     ID id-F-DPCH-Capability
                                             CRITICALITY ignore EXTENSION F-DPCH-Capability
                                                                                                                 PRESENCE optional }
     ID id-E-DCH-TDD-CapacityConsumptionLaw
                                             CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                                                                                 PRESENCE optional |
     ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability
   PRESENCE optional }
   { ID id-Max-UE-DTX-Cycle
                                             CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle
                                                                                                                 PRESENCE conditional }|
   -- The IE shall be present if Continuous Packet Connectivity DTX-DRX Capability IE is present and set to 'Continuous Packet Connectivity DTX-
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Capability
   PRESENCE optional }
     ID id-MIMO-Capability
                                             CRITICALITY ignore EXTENSION MIMO-Capability
                                                                                                                 PRESENCE optional }
     ID id-SixtyfourQAM-DL-Capability
                                             CRITICALITY ignore EXTENSION SixtyfourQAM-DL-Capability
                                                                                                                 PRESENCE optional }
     ID id-MBMS-Capability
                                             CRITICALITY ignore EXTENSION MBMS-Capability
                                                                                                                 PRESENCE optional }
     ID id-Enhanced-FACH-Capability
                                             CRITICALITY ignore EXTENSION Enhanced-FACH-Capability
                                                                                                                 PRESENCE optional }
     ID id-Enhanced-PCH-Capability
                                             CRITICALITY ignore EXTENSION Enhanced-PCH-Capability
                                                                                                                 PRESENCE conditional } |
    -- The IE shall be present if Enhanced FACH Capability IE is set to 'Enhanced FACH Capable'.
     ID id-SixteenOAM-UL-Capability
                                             CRITICALITY ignore EXTENSION SixteenQAM-UL-Capability
                                                                                                                 PRESENCE optional
     ID id-HSDSCH-MACdPDU-SizeCapability
                                             CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability
                                                                                                                 PRESENCE optional
     ID id-MBSFN-Only-Mode-Capability
                                             CRITICALITY ignore EXTENSION MBSFN-Only-Mode-Capability
                                                                                                                 PRESENCE optional
     ID id-F-DPCH-SlotFormatCapability
                                             CRITICALITY ignore EXTENSION F-DPCH-SlotFormatCapability
                                                                                                                 PRESENCE optional
     ID id-E-DCH-MACdPDU-SizeCapability
                                             CRITICALITY ignore EXTENSION E-DCH-MACdPDU-SizeCapability
                                                                                                                 PRESENCE optional
     ID id-Common-EDCH-Capability
                                             CRITICALITY ignore EXTENSION Common-EDCH-Capability
                                                                                                                 PRESENCE optional
     ID id-E-AI-Capability
                                             CRITICALITY ignore EXTENSION E-AI-Capability
                                                                                                                 PRESENCE optional }
    -- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
     ID id-Enhanced-UE-DRX-Capability
                                             CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability
                                                                                                                 PRESENCE optional }
     ID id-Enhanced-UE-DRX-CapabilityLCR
                                             CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability
                                                                                                                 PRESENCE optional }
     PRESENCE optional }
     ID id-SixtyfourOAM-DL-MIMO-Combined-Capability
                                                    CRITICALITY ignore
                                                                           EXTENSION SixtyfourQAM-DL-MIMO-Combined-Capability
                                                                                                                               PRESENCE
optional}
     ID id-Multi-Cell-Capability-Info
                                             CRITICALITY ignore EXTENSION Multi-Cell-Capability-Info
                                                                                                                 PRESENCE optional }
     ID id-Semi-PersistentScheduling-CapabilityLCR CRITICALITY ignore EXTENSION Semi-PersistentScheduling-CapabilityLCR
                                                                                                                        PRESENCE optional } |
                                                                               EXTENSION ContinuousPacketConnectivity-DRX-CapabilityLCR
     ID id-ContinuousPacketConnectivity-DRX-CapabilityLCR CRITICALITY ignore
   PRESENCE optional }
    { ID id-Common-E-DCH-HSDPCCH-Capability
                                             CRITICALITY ignore EXTENSION Common-E-DCH-HSDPCCH-Capability
                                                                                                                 PRESENCE optional }
   -- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
    PRESENCE optional }
    ID id-TxDiversityOnDLControlChannelsByMIMOUECapability CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability
   PRESENCE optional }
     ID id-Single-Stream-MIMO-Capability
                                             CRITICALITY ignore EXTENSION Single-Stream-MIMO-Capability
                                                                                                                 PRESENCE optional
     ID id-Dual-Band-Capability-Info
                                             CRITICALITY ignore EXTENSION Dual-Band-Capability-Info
                                                                                                                 PRESENCE optional
     ID id-CellPortion-CapabilityLCR
                                             CRITICALITY ignore EXTENSION CellPortion-CapabilityLCR
                                                                                                                 PRESENCE optional
                                             CRITICALITY ignore EXTENSION Cell-Capability-Container
     ID id-Cell-Capability-Container
                                                                                                                 PRESENCE optional
     ID id-TS0-CapabilityLCR
                                             CRITICALITY ignore EXTENSION TSO-CapabilityLCR
                                                                                                                 PRESENCE optional }
     ID id-PrecodingWeightSetRestriction
                                             CRITICALITY ignore EXTENSION PrecodingWeightSetRestriction
                                                                                                                 PRESENCE optional }
     ID id-Adaptive-Special-Burst-Power-CapabilityLCR CRITICALITY ignore EXTENSION Adaptive-Special-Burst-Power-CapabilityLCR
                                                                                                                               PRESENCE
optional },
Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEOUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE2-ResourceStatusInd }}
Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore
                                                                              TYPE Local-Cell-Group-InformationItem2-ResourceStatusInd
       PRESENCE mandatory }
Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEOUENCE
   local-Cell-Group-ID
                                          Local-Cell-ID,
   dl-or-global-capacityCredit
                                          DL-or-Global-CapacityCredit
                                                                                 OPTIONAL,
   ul-capacityCredit
                                          UL-CapacityCredit
                                                                                 OPTIONAL,
   commonChannelsCapacityConsumptionLaw
                                          CommonChannelsCapacityConsumptionLaw
                                                                                 OPTIONAL,
   dedicatedChannelsCapacityConsumptionLaw
                                          DedicatedChannelsCapacityConsumptionLaw
                                                                                 OPTIONAL,
                                       ProtocolExtensionContainer { { Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-DCH-CapacityConsumptionLaw
                                          CRITICALITY ignore
                                                                EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                          PRESENCE optional } |
     ID id-E-DCH-TDD-CapacityConsumptionLaw
                                                                EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                          CRITICALITY ignore
                                                                                                       PRESENCE optional },
   . . .
CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-
ResourceStatusInd }}
CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
                                       CommunicationControlPortID,
   communicationControlPortID
                                       ResourceOperationalState,
   resourceOperationalState
   availabilityStatus
                                       AvailabilityStatus,
   iE-Extensions
                                       OPTIONAL,
CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-
ResourceStatusInd }}
Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
   c-ID
   resourceOperationalState
                                       ResourceOperationalState
                                                                                 OPTIONAL,
   availabilityStatus
                                       AvailabilityStatus
                                                                                 OPTIONAL,
   primary-SCH-Information
                                       P-SCH-Information-ResourceStatusInd
                                                                                 OPTIONAL, -- FDD only
   secondary-SCH-Information
                                       S-SCH-Information-ResourceStatusInd
                                                                                 OPTIONAL, -- FDD only
   primary-CPICH-Information
                                       P-CPICH-Information-ResourceStatusInd
                                                                                 OPTIONAL, -- FDD only
```

```
secondary-CPICH-Information
                                            S-CPICH-InformationList-ResourceStatusInd
                                                                                            OPTIONAL, -- FDD only
    primary-CCPCH-Information
                                            P-CCPCH-Information-ResourceStatusInd
                                                                                            OPTIONAL.
    bCH-Information
                                            BCH-Information-ResourceStatusInd
                                                                                            OPTIONAL.
    secondary-CCPCH-InformationList
                                            S-CCPCH-InformationList-ResourceStatusInd
                                                                                            OPTIONAL.
    pCH-Information
                                            PCH-Information-ResourceStatusInd
                                                                                            OPTIONAL.
    pICH-Information
                                            PICH-Information-ResourceStatusInd
                                                                                            OPTIONAL,
    fACH-InformationList
                                            FACH-InformationList-ResourceStatusInd
                                                                                            OPTIONAL,
    pRACH-InformationList
                                            PRACH-InformationList-ResourceStatusInd
                                                                                            OPTIONAL,
    rACH-InformationList
                                            RACH-InformationList-ResourceStatusInd
                                                                                            OPTIONAL,
                                            AICH-InformationList-ResourceStatusInd
                                                                                            OPTIONAL, -- FDD only
    aICH-InformationList
                                                                                            OPTIONAL,
    notUsed-1-pCPCH-InformationList
                                            NULL
    notUsed-2-cPCH-InformationList
                                            NULL
                                                                                            OPTIONAL,
    notUsed-3-aP-AICH-InformationList
                                            NULL
                                                                                            OPTIONAL.
    notUsed-4-cDCA-ICH-InformationList
                                            NULL
                                                                                            OPTIONAL.
    sCH-Information
                                            SCH-Information-ResourceStatusInd
                                                                                            OPTIONAL, -- Applicable to 3.84Mcps TDD only
    iE-Extensions
                                            ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs} }
                                                                                                                               OPTIONAL,
    . . .
Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-InformationList-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-ResourceStatusInd
        PRESENCE optional } -- Applicable to 1.28Mcps TDD only
     ID id-DwPCH-LCR-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION DwPCH-LCR-Information-ResourceStatusInd
            PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-HSDSCH-Resources-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-ResourceStatusInd
        PRESENCE optional } -- For 1.28Mcps TDD, this HS-DSCH Resource Information is for the first Frequency repetition, HS-DSCH Resource
Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd.
    { ID id-MICH-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information
            PRESENCE optional }
                                                                CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-ResourceStatusInd
    { ID id-S-CCPCH-InformationListExt-ResourceStatusInd
       PRESENCE optional }
    -- Applicable to 3.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the message.
    { ID id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION S-CCPCH-LCR-InformationListExt-ResourceStatusInd
    PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the message.
    { ID id-E-DCH-Resources-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION E-DCH-Resources-Information-ResourceStatusInd
        PRESENCE optional } |
    -- For 1.28Mcps TDD, this E-DCH Resource Information is for the first Frequency repetition, E-DCH Resource Information for Frequency
repetitions 2 and on, should be defined in MultipleFreg-E-DCH-Resources-InformationList-ResourceStatusInd.
    { ID id-PLCCH-InformationList-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION PLCCH-InformationList-ResourceStatusInd
    PRESENCE optional } |
    { ID id-P-CCPCH-768-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768
        PRESENCE optional }
     ID id-S-CCPCH-768-InformationList-ResourceStatusInd
                                                                CRITICALITY ignore
                                                                                   EXTENSION S-CCPCH-768-InformationList-ResourceStatusInd
       PRESENCE optional }
    { ID id-PICH-768-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768
    PRESENCE optional }
    { ID id-PRACH-768-InformationList-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION PRACH-768-InformationList-ResourceStatusInd
        PRESENCE optional }
    { ID id-SCH-768-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768
    PRESENCE optional } |
    { ID id-MICH-768-Information-ResourceStatusInd
                                                                CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768
    PRESENCE optional } |
```

```
{ ID id-E-RUCCH-InformationList-ResourceStatusInd
                                                          CRITICALITY ignore EXTENSION E-RUCCH-InformationList-ResourceStatusInd
       PRESENCE optional }
   { ID id-E-RUCCH-768-InformationList-ResourceStatusInd
                                                             CRITICALITY ignore EXTENSION E-RUCCH-768-InformationList-ResourceStatusInd
          PRESENCE optional }
   { ID id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd
                                                                        CRITICALITY ignore
                                                                                                            EXTENSION Cell-Frequency-
List-Information-LCR-MulFreg-ResourceStatusInd
                                                  PRESENCE optional }
                                                                        -- Applicable to 1.28Mcps TDD when using multiple frequencies
   { ID id-UPPCH-LCR-InformationList-ResourceStatusInd
                                                                        CRITICALITY ignore
                                                                                                            EXTENSION UPPCH-LCR-
InformationList-ResourceStatusInd
                                               PRESENCE optional }
                                                                    -- Applicable to 1.28Mcps TDD only
    { ID id-multipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd
                                                                        CRITICALITY ignore
                                                                                                            EXTENSION MultipleFreq-HS-
DSCH-Resources-InformationList-ResourceStatusInd PRESENCE optional }
   -- Applicable to 1.28Mcps TDD when using multiple frequencies, This HS-DSCH Resource Information is for the 2nd and beyond frequencies.
   { ID id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd
                                                                        CRITICALITY ignore
                                                                                                            EXTENSION MultipleFreq-E-
DCH-Resources-InformationList-ResourceStatusInd PRESENCE optional },
   -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-DCH Resource Information is for the 2nd and beyond frequencies.
P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}
P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}
S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}
P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-P-CPICH-Information CRITICALITY ignore
                                                 TYPE Common-PhysicalChannel-Status-Information
                                                                                                            PRESENCE mandatory }
S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-
ResourceStatusInd }}
S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                            PRESENCE mandatory }
P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}
P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                            PRESENCE mandatory }
BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}
BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
```

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S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-
ResourceStatusInd }}
S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}
PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }}
PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-
ResourceStatusInd }}
FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
PRACH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-
ResourceStatusInd }}
PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-
ResourceStatusInd }}
RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-
ResourceStatusInd }}
AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }}
SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
```

```
FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-
ResourceStatusInd }}
FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                             PRESENCE mandatory }
DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }}
DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
   resourceOperationalState
                                    ResourceOperationalState,
   availabilityStatus
                                    AvailabilityStatus,
                                    ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }}
   iE-Extensions
   OPTIONAL,
   . . .
HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-UARFCNforNt
                      CRITICALITY ignore
                                               EXTENSION UARFCN
                                                                     PRESENCE optional }.
   -- Applicable to 1.28Mcps TDD when using multiple frequencies.
S-CCPCH-InformationListExt-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-
InformationItemIE-ResourceStatusInd }}
S-CCPCH-LCR-InformationListExt-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-
InformationItemIE-ResourceStatusInd }}
E-DCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
                                    ResourceOperationalState,
   resourceOperationalState
   availabilityStatus
                                    AvailabilityStatus,
   iE-Extensions
                                    ProtocolExtensionContainer {{ E-DCH-Resources-Information-ResourceStatusInd-ExtIEs }}
                                                                                                                           OPTIONAL,
E-DCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                     PRESENCE optional },
   {ID id-UARFCNforNt
                        CRITICALITY ignore
                                               EXTENSION UARFON
   -- Applicable to 1.28Mcps TDD when using multiple frequencies.
PLCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-
ResourceStatusInd }}
PLCCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
```

```
S-CCPCH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell768)) OF ProtocolIE-Single-Container {{ S-CCPCH-768-
InformationItemIE-ResourceStatusInd }}
S-CCPCH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE
mandatory }
PRACH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-768-InformationItemIE-
ResourceStatusInd }}
PRACH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                  PRESENCE mandatory }
E-RUCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-InformationItemIE-
ResourceStatusInd }}
E-RUCCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-E-RUCCH-Information
                                  CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                  PRESENCE mandatory }
E-RUCCH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-768-
InformationItemIE-ResourceStatusInd }}
E-RUCCH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-E-RUCCH-768-Information
                                      CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                  PRESENCE mandatory }
Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Cell-
Frequency-List-InformationIE-LCR-MulFreq-ResourceStatusInd }}
Cell-Frequency-List-InformationIE-LCR-MulFreq-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd CRITICALITY ignore
                                                                                                              TYPE Cell-Frequency-List-
InformationItem-LCR-MulFreg-ResourceStatusInd
                                                 PRESENCE mandatory }
Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE {
                                      UARFCN,
    resourceOperationalState
                                      ResourceOperationalState,
    availabilityStatus
                                      AvailabilityStatus,
                                                         OPTIONAL,
    cause
                                      Cause
                                      ProtocolExtensionContainer {{ Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd-ExtIEs }}
   iE-Extensions
       OPTIONAL,
    . . .
Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UPPCH-LCR-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UPPCH-LCR-InformationIE-
ResourceStatusInd }}
```

```
UPPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-UPPCH-LCR-InformationItem-ResourceStatusInd
                                                    CRITICALITY ignore TYPE UPPCH-LCR-InformationItem-ResourceStatusInd
   PRESENCE mandatory }
UPPCH-LCR-InformationItem-ResourceStatusInd ::= SEQUENCE {
   11ARFCN
                                  UARECN
                                                    OPTIONAL,
   uPPCHPositionLCR
                                  UPPCHPositionLCR,
   resourceOperationalState
                                  ResourceOperationalState,
                                  AvailabilityStatus,
   availabilityStatus
                                  ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs }}
   iE-Extensions
                                                                                                                     OPTIONAL,
   . . .
UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-
Container{{ MultipleFreq-HS-DSCH-Resources-InformationItem-ResourceStatusInd }}
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-HS-DSCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
Power-Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEOUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-
Local-Cell-Group-InformationItemIE2-ResourceStatusInd }}
Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   ResourceStatusInd
                    PRESENCE mandatory }
Power-Local-Cell-Group-InformationItem2-ResourceStatusInd::= SEQUENCE {
   power-Local-Cell-Group-ID
                                  Local-Cell-ID,
   maximumDL-PowerCapability
                                  MaximumDL-PowerCapability,
                                  ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs} }
   iE-Extensions
   OPTIONAL,
Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-E-DCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    ID id-E-DCH-Resources-Information-ResourceStatusInd CRITICALITY ignore TYPE E-DCH-Resources-Information-ResourceStatusInd
   PRESENCE mandatory }
```

```
-- SYSTEM INFORMATION UPDATE REQUEST
   ******************
SystemInformationUpdateRequest ::= SEQUENCE {
                                                       {{SystemInformationUpdateRequest-IEs}},
   protocolIEs
                 ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{SystemInformationUpdateRequest-Extensions}}
                                                                                                                     OPTIONAL,
   . . .
SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID
                                                              CRITICALITY reject TYPE C-ID
                                                                                                                                    PRESENCE
mandatory }|
   { ID id-BCCH-ModificationTime
                                                              CRITICALITY reject TYPE BCCH-ModificationTime
                                                                                                                                    PRESENCE
optional }
    { ID id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
                                                              CRITICALITY reject TYPE MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
           PRESENCE mandatory },
SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
MIB-SB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
                                      IB-Type,
   iB-Type
   iB-OC-ID
                                      IB-OC-ID,
   deletionIndicator
                                      DeletionIndicator-SystemInfoUpdate,
                                      ProtocolExtensionContainer { { MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DeletionIndicator-SystemInfoUpdate ::= CHOICE {
   no-Deletion
                                      No-Deletion-SystemInfoUpdate,
   ves-Deletion
No-Deletion-SystemInfoUpdate ::= SEQUENCE {
    sIB-Originator
                                          SIB-Originator
                                                                      OPTIONAL,
    -- This IE shall be present if the IB-Type IE is set to "SIB"
   iB-SG-REP
                                          IB-SG-REP
                                                                      OPTIONAL,
    segmentInformationList
                                          SegmentInformationList-SystemInfoUpdate,
```

```
ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs} } 
   iE-Extensions
                                                                                                        OPTIONAL,
No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Single-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}
SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
   PRESENCE
mandatory }
SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate
SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
   iB-SG-POS
                                                    OPTIONAL,
   segment-Type
                                   Segment-Type
                                                    OPTIONAL,
   -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
                                   IB-SG-DATA
                                                    OPTIONAL,
   -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
                                   iE-Extensions
                                                                                                        OPTIONAL,
SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   -- SYSTEM INFORMATION UPDATE RESPONSE
  *****************
SystemInformationUpdateResponse ::= SEQUENCE
                                              {{SystemInformationUpdateResponse-IEs}},
   protocolIEs
                      ProtocolIE-Container
   protocolExtensions
                      ProtocolExtensionContainer {{SystemInformationUpdateResponse-Extensions}}
                                                                                                  OPTIONAL,
SystemInformationUpdateResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                CRITICALITY ignore
                                                       TYPE CriticalityDiagnostics
                                                                                              PRESENCE optional \}.
SystemInformationUpdateResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
```

```
-- SYSTEM INFORMATION UPDATE FAILURE
   ****************
SystemInformationUpdateFailure ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                      {{SystemInformationUpdateFailure-IEs}},
                          ProtocolExtensionContainer {{SystemInformationUpdateFailure-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                          CRITICALITY ignore
                                                                     TYPE Cause
                                                                                                                   PRESENCE
                                                                                                                                  mandatory
     ID id-CriticalityDiagnostics
                                          CRITICALITY ignore
                                                                     TYPE CriticalityDiagnostics
                                                                                                                   PRESENCE
                                                                                                                                  optional
SystemInformationUpdateFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK SETUP REOUEST FDD
__ *********************
RadioLinkSetupRequestFDD ::= SEQUENCE {
                                                      {{RadioLinkSetupRequestFDD-IEs}},
   protocolIEs
                     ProtocolIE-Container
                                                      {{RadioLinkSetupRequestFDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                   OPTIONAL,
RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID
                                                         CRITICALITY reject TYPE CRNC-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD
                                                         CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRgstFDD
    PRESENCE mandatory } |
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD
                                                         CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
    PRESENCE optional } |
    { ID id-DCH-FDD-Information
                                                         CRITICALITY reject TYPE DCH-FDD-Information
    PRESENCE mandatory } |
    { ID id-RL-InformationList-RL-SetupRqstFDD
                                                         CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD
                                                                                                                                  PRESENCE
mandatory } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information
                                                         CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
                      PRESENCE optional }
    { ID id-Active-Pattern-Sequence-Information
                                                         CRITICALITY reject TYPE Active-Pattern-Sequence-Information
    PRESENCE optional },
    . . .
RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-Information
                                                 CRITICALITY ignore EXTENSION DL-PowerBalancing-Information
                                                                                                                   PRESENCE optional }
```

```
ID id-HSDSCH-FDD-Information
                                                    CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                        PRESENCE optional }
     ID id-HSDSCH-RNTI
                                                    CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                        PRESENCE conditional }|
    -- The IE shall be present if HS-DSCH Information IE is present
    { ID id-HSPDSCH-RL-ID
                                                    CRITICALITY reject EXTENSION RL-ID
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if HS-DSCH Information IE is present
    { ID id-E-DPCH-Information-RL-SetupRgstFDD
                                                    CRITICALITY reject EXTENSION E-DPCH-Information-RL-SetupRqstFDD
                                                                                                                        PRESENCE optional } |
    { ID id-E-DCH-FDD-Information
                                                    CRITICALITY reject EXTENSION E-DCH-FDD-Information
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if E-DPCH Information IE is present
     ID id-Serving-E-DCH-RL-ID
                                                    CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                        PRESENCE optional }
     ID id-F-DPCH-Information-RL-SetupRqstFDD
                                                    CRITICALITY reject EXTENSION F-DPCH-Information-RL-SetupRqstFDD
                                                                                                                        PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment-Allowed
                                                            CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed
                PRESENCE optional }
    { ID id-DCH-Indicator-For-E-DCH-HSDPA-Operation
                                                            CRITICALITY reject EXTENSION DCH-Indicator-For-E-DCH-HSDPA-Operation
                                PRESENCE optional } |
     ID id-Serving-Cell-Change-CFN
                                                            CRITICALITY reject EXTENSION CFN
                                                                                                                        PRESENCE optional }
     ID id-ContinuousPacketConnectivityDTX-DRX-Information
                                                                    CRITICALITY reject
                                                                                            EXTENSION ContinuousPacketConnectivityDTX-DRX-
                   PRESENCE optional }
Information
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                    CRITICALITY reject
                                                                                            EXTENSION ContinuousPacketConnectivityHS-SCCH-less-
                   PRESENCE optional }
Information
    { ID id-Additional-HS-Cell-Information-RL-Setup
                                                                    CRITICALITY reject
                                                                                            EXTENSION Additional-HS-Cell-Information-RL-Setup-List
            PRESENCE optional } |
    { ID id-UE-AggregateMaximumBitRate
                                                    CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate
                                                                                                                                        PRESENCE
optional }|
    { ID id-Additional-EDCH-Cell-Information-RL-Setup-Reg
                                                                    CRITICALITY reject
                                                                                            EXTENSION Additional-EDCH-Setup-Info
    PRESENCE optional }.
Additional-HS-Cell-Information-RL-Setup-List
                                              ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Setup-ItemIEs
Additional-HS-Cell-Information-RL-Setup-ItemIEs ::=SEOUENCE{
    hSPDSCH-RL-ID
                                                    RL-ID.
                                                    C-ID.
   hS-DSCH-FDD-Secondary-Serving-Information
                                                    HS-DSCH-FDD-Secondary-Serving-Information,
                                    ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Setup-ItemIEs-ExtIEs} } OPTIONAL.
Additional-HS-Cell-Information-RL-Setup-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode
                                            UL-ScramblingCode,
    minUL-ChannelisationCodeLength
                                            MinUL-ChannelisationCodeLength,
                                            MaxNrOfUL-DPDCHs
    maxNrOfUL-DPDCHs
                                                                    OPTIONAL,
    -- This IE shall be present if Min UL Channelisation Code length IE is set to 4 --
    ul-PunctureLimit
                                            PunctureLimit,
    t FCS
                                            TFCS.
    ul-DPCCH-SlotFormat
                                            UL-DPCCH-SlotFormat,
    ul-SIR-Target
                                            UL-SIR,
    diversityMode
                                            DiversityMode,
    not-Used-sSDT-CellID-Length
                                            NULL
                                                                    OPTIONAL,
    not-Used-s-FieldLength
                                            NULL
                                                                    OPTIONAL,
```

```
ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DPC-Mode
                                                 CRITICALITY reject EXTENSION DPC-Mode
                                                                                                                                 PRESENCE
optional }|
    PRESENCE
optional },
    . . .
DL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
   t.FCS
   dl-DPCH-SlotFormat
                                          DL-DPCH-SlotFormat,
   tFCI-SignallingMode
                                          TFCI-SignallingMode
   tFCI-Presence
                                          TFCI-Presence
                                                                        OPTIONAL,
    -- this IE shall be present if the DL DPCH slot format IE is set to any of the values from 12 to 16 --
                                          MultiplexingPosition,
   multiplexingPosition
   not-Used-pDSCH-RL-ID
                                          NULL
                                                                        OPTIONAL,
   not-Used-pDSCH-CodeMapping
                                         NULL
                                                                        OPTIONAL,
   powerOffsetInformation
                                          PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                          FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                          LimitedPowerIncrease,
   innerLoopDLPCStatus
                                          InnerLoopDLPCStatus,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs} }
                                                                                                                          OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                          PowerOffset,
   pO2-ForTPC-Bits
                                          PowerOffset,
   pO3-ForPilotBits
                                          PowerOffset,
                                          ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
   ProtocolIE-Single-Container{{    RL-InformationItemIE-RL-SetupRgstFDD }}
RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRgstFDD
                                                     CRITICALITY notify
                                                                                TYPE RL-InformationItem-RL-SetupRgstFDD
                                                                                                                                 PRESENCE
mandatory }
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
```

```
rL-ID
                                     RL-ID,
   C-TD
                                     C-ID.
   firstRLS-indicator
                                     FirstRLS-Indicator.
   frameOffset
                                     FrameOffset.
   chipOffset
                                     ChipOffset,
                                     PropagationDelay
   propagationDelay
                                                                   OPTIONAL,
   diversityControlField
                                     DiversityControlField
                                                                   OPTIONAL,
   -- This IE shall be present if the RL is not the first one in the RL Information IE
   dl-CodeInformation
                                     FDD-DL-CodeInformation.
   initialDL-transmissionPower
                                     DL-Power,
   maximumDL-power
                                     DL-Power,
   minimumDL-power
                                     DL-Power,
   not-Used-sSDT-Cell-Identity
                                     NULL
                                                                   OPTIONAL.
   transmitDiversityIndicator
                                     TransmitDiversityIndicator
                                                                   OPTIONAL.
   -- This IE shall be present if Diversity Mode IE in UL DPCH Information group is not set to 'none'
   iE-Extensions
                                     OPTIONAL,
   . . .
RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-Specific-DCH-Info
                                                    CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
   PRESENCE optional }
   { ID id-DelayedActivation
                                                    CRITICALITY reject EXTENSION DelayedActivation
   PRESENCE optional } |
   PRESENCE
optional }
    { ID id-Secondary-CPICH-Information
                                                    CRITICALITY ignore EXTENSION CommonPhysicalChannelID
   PRESENCE optional } |
    { ID id-E-DCH-RL-Indication
                                                    CRITICALITY reject EXTENSION E-DCH-RL-Indication
   PRESENCE optional } |
    { ID id-RL-Specific-E-DCH-Info
                                                    CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
   PRESENCE optional } |
    { ID id-SynchronisationIndicator
                                                    CRITICALITY ignore EXTENSION SynchronisationIndicator
                                                                                                                              PRESENCE
optional }
   { ID id-ExtendedPropagationDelay
                                                    CRITICALITY ignore EXTENSION ExtendedPropagationDelay
                                                                                                                              PRESENCE
optional }|
    { ID id-F-DPCH-SlotFormat
                                                    CRITICALITY reject EXTENSION F-DPCH-SlotFormat
   PRESENCE optional } |
   { ID id-HSDSCH-PreconfigurationSetup
                                                    CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup
                                                                                                                              PRESENCE
optional }
   { ID id-E-RNTI
                                                    CRITICALITY ignore EXTENSION E-RNTI
       PRESENCE optional }
   { ID id-Non-Serving-RL-Preconfig-Setup
                                                    CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
                                                                                                                      PRESENCE optional },
E-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE
   maxSet-E-DPDCHs
                                            Max-Set-E-DPDCHs.
   ul-PunctureLimit
                                            PunctureLimit,
   e-TFCS-Information
                                            E-TFCS-Information,
   e-TTI
                                            E-TTI,
   e-DPCCH-PO
                                            E-DPCCH-PO,
   e-RGCH-2-IndexStepThreshold
                                            E-RGCH-2-IndexStepThreshold,
   e-RGCH-3-IndexStepThreshold
                                            E-RGCH-3-IndexStepThreshold,
                                            HARO-Info-for-E-DCH,
   hARO-Info-for-E-DCH
```

```
hSDSCH-Configured-Indicator
                                               HSDSCH-Configured-Indicator,
    iE-Extensions
                                               ProtocolExtensionContainer { { E-DPCH-Information-RL-SetupRgstFDD-ExtIEs} }
                                                                                                                                     OPTIONAL.
E-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-RNTI
                                                   CRITICALITY reject EXTENSION E-RNTI
                                                                                                                  PRESENCE optional }
     ID id-MinimumReducedE-DPDCH-GainFactor
                                                   CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional },
F-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    powerOffsetInformation
                                       PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD,
    fdd-TPC-DownlinkStepSize
                                       FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                       LimitedPowerIncrease,
    innerLoopDLPCStatus
                                       InnerLoopDLPCStatus,
                                       ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRgstFDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
F-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE {
    pO2-ForTPC-Bits
                                       PowerOffset,
    --This IE shall be ignored by Node B
                                       ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK SETUP REQUEST TDD
__ ********************
RadioLinkSetupRequestTDD ::= SEQUENCE {
                                                       {{RadioLinkSetupRequestTDD-IEs}},
    protocolIEs
                          ProtocolIE-Container
                                                       {{RadioLinkSetupRequestTDD-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                                  OPTIONAL.
RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
    { ID
                                                           CRITICALITY reject TYPE CRNC-CommunicationContextID
    PRESENCE mandatory } |
           id-UL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                           CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional }
           id-DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                           CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional }
```

```
id-DCH-TDD-Information
    { ID
                                                            CRITICALITY reject TYPE DCH-TDD-Information
    PRESENCE optional } |
    { ID id-DSCH-TDD-Information
                                                            CRITICALITY reject TYPE DSCH-TDD-Information
    PRESENCE optional }
          id-USCH-Information
                                                            CRITICALITY reject TYPE USCH-Information
    PRESENCE optional }
           id-RL-Information-RL-SetupRqstTDD
                                                            CRITICALITY reject TYPE RL-Information-RL-SetupRgstTDD
    PRESENCE mandatory },
RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCH-TDD-Information
                                           CRITICALITY reject
                                                                    EXTENSION HSDSCH-TDD-Information
    PRESENCE optional }
    { ID id-HSDSCH-RNTI
                                            CRITICALITY reject
                                                                    EXTENSION HSDSCH-RNTI
    PRESENCE conditional }
    -- The IE shall be present if HS-DSCH Information IE is present
    { ID id-HSPDSCH-RL-ID
                                           CRITICALITY reject
                                                                    EXTENSION RL-ID
    PRESENCE conditional } |
    -- The IE shall be present if HS-DSCH Information IE is present
    { ID id-PDSCH-RL-ID
                                            CRITICALITY ignore
                                                                    EXTENSION RL-ID
    PRESENCE optional }
    { ID id-E-DCH-Information
                                            CRITICALITY reject
                                                                    EXTENSION E-DCH-Information
    PRESENCE optional } |
    { ID id-E-DCH-Serving-RL-ID
                                            CRITICALITY reject
                                                                    EXTENSION RL-ID
    PRESENCE optional } |
    { ID id-E-DCH-768-Information
                                            CRITICALITY reject
                                                                    EXTENSION E-DCH-768-Information
    PRESENCE optional } |
    { ID id-E-DCH-LCR-Information
                                            CRITICALITY reject
                                                                    EXTENSION E-DCH-LCR-Information
    PRESENCE optional } |
    { ID id-PowerControlGAP
                                            CRITICALITY ignore
                                                                    EXTENSION ControlGAP
    PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
    { ID id-ContinuousPacketConnectivity-DRX-InformationLCR
                                                                CRITICALITY reject EXTENSION ContinuousPacketConnectivity-DRX-InformationLCR
    PRESENCE optional } |
    { ID id-HS-DSCH-Semi-PersistentScheduling-Information-LCR
                                                                CRITICALITY reject EXTENSION
                                                                                               HS-DSCH-Semi-PersistentScheduling-Information-LCR
    PRESENCE optional }
    { ID id-E-DCH-Semi-PersistentScheduling-Information-LCR
                                                                                               E-DCH-Semi-PersistentScheduling-Information-LCR
                                                                CRITICALITY reject EXTENSION
       PRESENCE optional }
    { ID id-IdleIntervalInformation
                                            CRITICALITY ignore
                                                                    EXTENSION IdleIntervalInformation
                                                                                                                                       PRESENCE
optional }|
     ID id-UE-Selected-MBMS-Service-Information
                                                                                                                               PRESENCE optional } |
                                                    CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
    ID id-HSSCCH-TPC-StepSize
                                           CRITICALITY ignore
                                                                    EXTENSION TDD-TPC-DownlinkStepSize
                                                                                                                                       PRESENCE
optional }|
     ID id-DCH-MeasurementOccasion-Information CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
                                                                                                                        PRESENCE optional }
     ID id-HSDSCH-RNTI-For-FACH
                                           CRITICALITY ignore
                                                                    EXTENSION HSDSCH-RNTI
    PRESENCE optional }.
UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-Single-Container { { UL-CCTrCH-InformationItemIE-RL-SetupRgstTDD } }
UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                         CRITICALITY notify
                                                                                TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD
   PRESENCE mandatory }
UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                          CCTrCH-ID,
   t FCS
                                          TFCS,
   tFCI-Coding
                                          TFCI-Coding,
   punctureLimit
                                          PunctureLimit,
   uL-DPCH-Information
                                          UL-DPCH-Information-RL-SetupRqstTDD
                                                                                OPTIONAL, -- Applicable to 3.84Mcps TDD only
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-UL-DPCH-LCR-Information-RL-SetupRgstTDD
                                                     CRITICALITY notify EXTENSION UL-DPCH-LCR-Information-RL-SetupRgstTDD PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
     ID id-UL-SIRTarget
                                                     CRITICALITY reject EXTENSION UL-SIR
    PRESENCE optional
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    PRESENCE optional }|
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-UL-DPCH-768-Information-RL-SetupRgstTDD
                                                   CRITICALITY notify EXTENSION UL-DPCH-768-Information-RL-SetupRgstTDD PRESENCE optional
    }, -- Applicable to 7.68Mcps TDD only
    . . .
UL-DPCH-Information-RL-SetupRgstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationIE-RL-SetupRgstTDD }}
UL-DPCH-InformationIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD
                                                     CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRqstTDD
                                                                                                                                 PRESENCE
mandatory }
UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
    tdd-DPCHOffset
                                          TDD-DPCHOffset,
   uL-Timeslot-Information
                                          UL-Timeslot-Information,
                                          ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
    tdd-DPCHOffset
                                          TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                          UL-TimeslotLCR-Information,
```

```
ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
    . . .
UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-768-Information-RL-SetupRgstTDD ::= SEQUENCE {
   repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
   tdd-DPCHOffset
                                          TDD-DPCHOffset.
   uL-Timeslot768-Information
                                          UL-Timeslot768-Information.
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-DPCH-768-InformationItem-RL-SetupRgstTDD-ExtIEs} }
   OPTIONAL,
    . . .
UL-DPCH-768-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ DL-CCTrCH-InformationItemIE-RL-
SetupRqstTDD }}
DL-CCTrCH-InformationItemIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE
mandatory }
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE
   cCTrCH-ID
                                          CCTrCH-ID,
   t FCS
                                          TFCS,
   tFCI-Coding
                                          TFCI-Coding,
   punctureLimit
                                          PunctureLimit,
   tdd-TPC-DownlinkStepSize
                                          TDD-TPC-DownlinkStepSize,
    cCTrCH-TPCList
                                          CCTrCH-TPCList-RL-SetupRgstTDD
                                                                                OPTIONAL,
   dL-DPCH-Information
                                          DL-DPCH-Information-RL-SetupRgstTDD
                                                                                OPTIONAL,
                                                                                           -- Applicable to 3.84Mcps TDD only
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-Information-RL-SetupRgstTDD
                                                     CRITICALITY notify
                                                                            EXTENSION DL-DPCH-LCR-Information-RL-SetupRgstTDD
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
     ID id-CCTrCH-Initial-DL-Power-RL-SetupRgstTDD
                                                     CRITICALITY ignore
                                                                            EXTENSION DL-Power
                                                                                                                  PRESENCE optional
     ID id-CCTrCH-Maximum-DL-Power-RL-SetupRgstTDD
                                                     CRITICALITY ignore
                                                                            EXTENSION DL-Power
                                                                                                                  PRESENCE optional
                                                                                                                  PRESENCE optional
     ID id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD
                                                     CRITICALITY ignore
                                                                            EXTENSION DL-Power
     ID id-DL-DPCH-768-Information-RL-SetupRgstTDD
                                                     CRITICALITY notify
                                                                            EXTENSION DL-DPCH-768-Information-RL-SetupRgstTDD
    PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
    . . .
```

```
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD
                                ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID.
    iE-Extensions
                                            ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRgstTDD-ExtIEs} }
                                                                                                                          OPTIONAL.
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-SetupRgstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationIE-RL-SetupRgstTDD }}
DL-DPCH-InformationIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationList-RL-SetupRgstTDD
                                                        CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-SetupRgstTDD
                                                                                                                                         PRESENCE
mandatory }
DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information
                                            DL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                            DL-TimeslotLCR-Information,
    tstdIndicator
                                            TSTD-Indicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-LCR-InformationItem-RL-SetupRgstTDD-ExtIEs} }
    OPTIONAL,
DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-768-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot768-Information
                                            DL-Timeslot768-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs} }
    OPTIONAL,
```

```
DL-DPCH-768-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-SetupRgstTDD ::= SEQUENCE {
                                        RL-ID,
   c-ID
                                        C-ID,
   frameOffset
                                        FrameOffset,
   specialBurstScheduling
                                        SpecialBurstScheduling,
   initialDL-transmissionPower
                                        DL-Power,
   maximumDL-power
                                        DL-Power,
   minimumDL-power
                                        DL-Power,
   dL-TimeSlotISCPInfo
                                        DL-TimeslotISCPInfo OPTIONAL, -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
                                        ProtocolExtensionContainer { { RL-Information-RL-SetupRgstTDD-ExtIEs} }
   iE-Extensions
RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   EXTENSION DL-TimeslotISCPInfoLCR
                                                                                                                            PRESENCE
optional }|
   -- Applicable to 1.28Mcps TDD only
   { ID id-RL-Specific-DCH-Info
                                                   CRITICALITY ignore
                                                                         EXTENSION RL-Specific-DCH-Info
                                                                                                                            PRESENCE
optional }|
    { ID id-DelayedActivation
                                                   CRITICALITY reject
                                                                         EXTENSION DelayedActivation
                                                                                                                            PRESENCE
optional }|
   { ID id-UL-Synchronisation-Parameters-LCR
                                                   CRITICALITY reject
                                                                          EXTENSION UL-Synchronisation-Parameters-LCR
                                                                                                                     PRESENCE optional }
   -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
   { ID id-UARFCNforNt
                                                   CRITICALITY reject
                                                                         EXTENSION UARFON
                                                                                                                            PRESENCE
optional },
   -- Mandatory for 1.28Mcps TDD when using multiple frequencies
      -- RADIO LINK SETUP RESPONSE FDD
__ ********************
RadioLinkSetupResponseFDD ::= SEQUENCE {
                                                    {{RadioLinkSetupResponseFDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer
                                                   {{RadioLinkSetupResponseFDD-Extensions}}
                                                                                                              OPTIONAL,
RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID
                                                   CRITICALITY ignore TYPE CRNC-CommunicationContextID
   PRESENCE mandatory } |
    { ID id-NodeB-CommunicationContextID
                                                   CRITICALITY ignore TYPE NodeB-CommunicationContextID
   PRESENCE mandatory } |
```

```
{ ID id-CommunicationControlPortID
                                                        CRITICALITY ignore TYPE CommunicationControlPortID
    PRESENCE mandatory } |
    { ID id-RL-InformationResponseList-RL-SetupRspFDD
                                                        CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD
                                                                                                                                        PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                                        CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::=
    { ID id-HSDSCH-FDD-Information-Response
                                                        CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response
    PRESENCE optional }
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                                CRITICALITY ignore
                                                                                                                    EXTENSION
    ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                            PRESENCE optional } |
    { ID id-Additional-HS-Cell-Information-Response
                                                        CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-Response-List
    PRESENCE optional }
    { ID id-Additional-EDCH-Cell-Information-Response
                                                            CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-List
        PRESENCE optional },
    . . .
Additional-HS-Cell-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-Response-ItemIEs
Additional-HS-Cell-Information-Response-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID
                                                        RL-ID.
   hs-DscH-FDD-secondary-serving-Information-Response Hs-DscH-FDD-secondary-serving-Information-Response,
    iE-Extensions
                                    ProtocolExtensionContainer { Additional-HS-Cell-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,
    . . .
Additional-HS-Cell-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { RL-InformationResponseItemIE-RL-
SetupRspFDD }}
RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD
                                                                                                                                PRESENCE mandatory }
RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                                                    RL-ID.
    rL-Set-ID
                                                    RL-Set-ID,
    received-total-wide-band-power
                                                    Received-total-wide-band-power-Value,
    diversitvIndication
                                                    DiversityIndication-RL-SetupRspFDD.
    not-Used-dSCH-InformationResponseList
                                                                                    OPTIONAL,
    sSDT-SupportIndicator
                                                    SSDT-SupportIndicator,
                                                    ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-DL-PowerBalancing-ActivationIndicator
                                                      CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                  PRESENCE
optional }
    { ID id-E-DCH-RL-Set-ID
                                                      CRITICALITY ignore EXTENSION RL-Set-ID
               PRESENCE optional } |
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                      CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
    PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationInfo
                                                      CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional } |
    { ID id-Non-Serving-RL-Preconfig-Info
                                                      CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
    PRESENCE optional },
    . . .
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                              Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                              NonCombiningOrFirstRL-RL-SetupRspFDD
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rI.-ID
                                              RL-ID,
   iE-Extensions
                                              ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs} } 
                                                                                                                    OPTIONAL,
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE
   dCH-InformationResponse
                                              DCH-InformationResponse,
   iE-Extensions
                                              ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} }
   OPTIONAL,
    . . .
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                              CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                    PRESENCE optional },
   *****************
-- RADIO LINK SETUP RESPONSE TDD
__ **********************
RadioLinkSetupResponseTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkSetupResponseTDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL,
RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-CRNC-CommunicationContextID
                                                    CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                                        PRESENCE
mandatory }|
    { ID id-NodeB-CommunicationContextID
                                                    CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                                                                        PRESENCE
mandatory } |
    { ID id-CommunicationControlPortID
                                                    CRITICALITY ignore TYPE CommunicationControlPortID
                                                                                                                                        PRESENCE
mandatory }|
    { ID id-RL-InformationResponse-RL-SetupRspTDD
                                                    CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD
                                                                                                                                        PRESENCE
    -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
    { ID id-CriticalityDiagnostics
                                                    CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                                        PRESENCE
optional },
    . . .
RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-InformationResponse-LCR-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-InformationResponse-LCR-RL-SetupRspTDD
                                                                                                                                        PRESENCE
optional } | -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
     ID id-HSDSCH-TDD-Information-Response
                                                       CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response
                                                                                                                                PRESENCE optional } |
     ID id-E-DCH-Information-Response
                                                        CRITICALITY ignore EXTENSION E-DCH-Information-Response
                                                                                                                                        PRESENCE
optional }
    { ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                        CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-
               PRESENCE optional } |
ResponseLCR
    { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                        CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-
                           PRESENCE optional } |
Information-ResponseLCR
    { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                        CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-
ResponseLCR
                PRESENCE optional } |
    { ID id-E-RNTI-For-FACH
                                                        CRITICALITY ignore EXTENSION E-RNTI
        PRESENCE optional },
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rI.-ID
                                                    RL-ID,
    uL-TimeSlot-ISCP-Info
                                                    UL-TimeSlot-ISCP-Info,
    ul-PhysCH-SF-Variation
                                                    UL-PhysCH-SF-Variation.
                                                    DCH-InformationResponseList-RL-SetupRspTDD
    dCH-InformationResponseList
                                                                                                                        OPTIONAL,
    dSCH-InformationResponseList
                                                    DSCH-InformationResponseList-RL-SetupRspTDD
                                                                                                                        OPTIONAL,
    uSCH-InformationResponseList
                                                    USCH-InformationResponseList-RL-SetupRspTDD
                                                                                                                         OPTIONAL,
                                                    ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { | DCH-InformationResponseListIEs-RL-SetupRspTDD }}
DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY
                                                    ignore
                                                                TYPE
                                                                        DCH-InformationResponse PRESENCE
                                                                                                                    mandatory}
DSCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspTDD }}
```

```
DSCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
USCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-SetupRspTDD }}
USCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                    PRESENCE mandatory }
RL-InformationResponse-LCR-RL-SetupRspTDD ::= SEQUENCE {
   uL-TimeSlot-ISCP-LCR-Info
                                              UL-TimeSlot-ISCP-LCR-Info.
   ul-PhysCH-SF-Variation
                                              UL-PhysCH-SF-Variation,
   dCH-InformationResponseList
                                              DCH-InformationResponseList-RL-SetupRspTDD
                                                                                                          OPTIONAL,
   dSCH-InformationResponseList
                                              DSCH-InformationResponseList-RL-SetupRspTDD
                                                                                                          OPTIONAL,
   uSCH-InformationResponseList
                                              USCH-InformationResponseList-RL-SetupRspTDD
                                                                                                          OPTIONAL,
                                              iE-Extensions
   OPTIONAL,
   . . .
RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
        -- RADIO LINK SETUP FAILURE FDD
__ *********************
RadioLinkSetupFailureFDD ::= SEQUENCE {
                                                  {{RadioLinkSetupFailureFDD-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL.
RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                          CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                          PRESENCE mandatory } |
    ID id-NodeB-CommunicationContextID
                                          CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                                          PRESENCE conditional }
   -- This IE shall be present if at least one of the radio links has been successfully set up
     ID id-CommunicationControlPortID
                                          CRITICALITY ignore TYPE CommunicationControlPortID
                                                                                                          PRESENCE optional } |
     ID id-CauseLevel-RL-SetupFailureFDD
                                          CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD
                                                                                                          PRESENCE mandatory } |
    ID id-CriticalityDiagnostics
                                                                                                          PRESENCE optional },
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
```

```
generalCause
                        GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause
                        RLSpecificCauseList-RL-SetupFailureFDD,
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
    cause
                                                Cause,
    iE-Extensions
                                                ProtocolExtensionContainer { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} }
                                                                                                                                        OPTIONAL.
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
                                                                Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD
                                                                Successful-RL-InformationRespList-RL-SetupFailureFDD
                                                                                                                         OPTIONAL,
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-HSDSCH-FDD-Information-Response
                                                CRITICALITY ignore
                                                                        EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                                PRESENCE optional } |
     ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                                CRITICALITY ignore
                                                                                                                         EXTENSION
    ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                            PRESENCE optional }
    { ID id-Additional-HS-Cell-Information-Response
                                                        CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-Response-List
    PRESENCE optional }
    { ID id-Additional-EDCH-Cell-Information-Response
                                                            CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-List
        PRESENCE optional },
    . . .
Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore
                                                                                            TYPE Unsuccessful-RL-InformationRespItem-RL-
SetupFailureFDD PRESENCE mandatory }
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    cause
                                        Cause,
                                        ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

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```
Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container
                                                                                                                                 {{ Successful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Successful-RL-InformationRespItem-RL-SetupFailureFDD
                                                                         CRITICALITY ignore
                                                                                                 TYPE Successful-RL-InformationRespItem-RL-
SetupFailureFDD PRESENCE mandatory }
Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rI.-ID
                                                RL-ID.
    rL-Set-ID
                                                RL-Set-ID,
    received-total-wide-band-power
                                                Received-total-wide-band-power-Value,
    diversityIndication
                                                DiversityIndication-RL-SetupFailureFDD,
    not-Used-dSCH-InformationResponseList
                                                NULL
                                                                             OPTIONAL,
    not-Used-tFCI2-BearerInformationResponse
                                                NULL
                                                                             OPTIONAL,
    sSDT-SupportIndicator
                                                SSDT-SupportIndicator,
                                                ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-ActivationIndicator
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                         PRESENCE
optional }|
    { ID id-E-DCH-RL-Set-ID
                                                        CRITICALITY ignore EXTENSION RL-Set-ID
                PRESENCE optional } |
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                        CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                        CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
    PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationInfo
                                                        CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional } |
    { ID id-Non-Serving-RL-Preconfig-Info
                                                        CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
    PRESENCE optional },
    . . .
DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining
                                                Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                                NonCombiningOrFirstRL-RL-SetupFailureFDD
Combining-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                                ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL.
    . . .
CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE
    dCH-InformationResponse
                                                DCH-InformationResponse,
```

```
ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                              CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                   PRESENCE optional },
  *****************
-- RADIO LINK SETUP FAILURE TDD
__ **********************
RadioLinkSetupFailureTDD ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                      {{RadioLinkSetupFailureTDD-IEs}},
                                                     {{RadioLinkSetupFailureTDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                   OPTIONAL,
RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                  CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                   PRESENCE mandatory
     TD
          id-CauseLevel-RL-SetupFailureTDD
                                                  CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD
                                                                                                                   PRESENCE mandatory
    { ID
          id-CriticalityDiagnostics
                                                  CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                   PRESENCE optional
    . . .
RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
   generalCause
                       GeneralCauseList-RL-SetupFailureTDD
   rLSpecificCause
                      RLSpecificCauseList-RL-SetupFailureTDD,
GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
                              ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL.
    . . .
GeneralCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE {
   unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD
                                                         Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
   iE-Extensions
                                                         ProtocolExtensionContainer { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} }
   OPTIONAL,
    . . .
```

```
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-SetupFailureTDD
    PRESENCE mandatory }
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD ::= SEQUENCE {
   rL-ID
                                       RL-ID,
    cause
                                       ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK ADDITION REQUEST FDD
  ******************
RadioLinkAdditionRequestFDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                       {{RadioLinkAdditionRequestFDD-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkAdditionRequestFDD-Extensions}}
                                                                                                                            OPTIONAL,
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::=
     ID id-NodeB-CommunicationContextID
                                                   CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                     PRESENCE
                                                                                                                                    mandatory
     ID id-Compressed-Mode-Deactivation-Flag
                                                  CRITICALITY reject TYPE Compressed-Mode-Deactivation-Flag
                                                                                                                     PRESENCE optional }
     ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD
                                                                                                                     PRESENCE
                                                                                                                                    mandatory
RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed
                                                          CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed
               PRESENCE optional } |
    { ID id-Serving-E-DCH-RL-ID
                                                  CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
    PRESENCE optional } |
    { ID id-Serving-Cell-Change-CFN
                                                  CRITICALITY reject EXTENSION CFN
       PRESENCE optional }
```

```
ID id-HS-DSCH-Serving-Cell-Change-Info
                                                 CRITICALITY reject EXTENSION HS-DSCH-Serving-Cell-Change-Info
                                                                                                                         PRESENCE optional } |
     ID id-E-DPCH-Information-RL-AdditionRegFDD
                                                 CRITICALITY reject EXTENSION E-DPCH-Information-RL-AdditionRegFDD
                                                                                                                         PRESENCE optional } |
     ID id-E-DCH-FDD-Information
                                                 CRITICALITY reject EXTENSION E-DCH-FDD-Information
                                                                                                                         PRESENCE conditional
    -- This IE shall be present if E-DPCH Information is present
    { ID id-Additional-HS-Cell-Information-RL-Addition
                                                         CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Addition-List
       PRESENCE optional } |
    { ID id-UE-AggregateMaximumBitRate
                                                 CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate
    PRESENCE optional }
    { ID id-Additional-EDCH-Cell-Information-RL-Add-Reg
                                                         CRITICALITY reject EXTENSION Additional-EDCH-Cell-Information-RL-Add-Req
    PRESENCE optional },
    . . .
Additional-HS-Cell-Information-RL-Addition-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Addition-ItemIEs
Additional-EDCH-Cell-Information-RL-Add-Reg ::=SEQUENCE{
    setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency
                                                                            Setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency,
                                  ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Add-Reg-ExtIEs} } OPTIONAL,
    iE-Extensions
Additional-EDCH-Cell-Information-RL-Add-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency::= CHOICE {
    setup
                   Additional-EDCH-Setup-Info,
                   Additional-EDCH-Cell-Information-To-Add-List,
    addition
Additional-HS-Cell-Information-RL-Addition-ItemIEs ::=SEOUENCE{
    hSPDSCH-RL-ID
                                             RL-ID,
    c-ID
                                             C-ID,
   hs-Dsch-FDD-secondary-serving-Information Hs-Dsch-FDD-secondary-serving-Information,
                                  ProtocolExtensionContainer { Additional-HS-Cell-Information-RL-Addition-ItemIEs-ExtIEs} } OPTIONAL,
Additional-HS-Cell-Information-RL-Addition-ItemIEs-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-AdditionRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-
AdditionRqstFDD}}
RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
    PRESENCE
    mandatory}
RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE
    rL-ID
                                             RL-ID,
```

```
C-ID,
    C-TD
    frameOffset.
                                                FrameOffset.
    chipOffset
                                                ChipOffset.
    diversityControlField
                                                DiversityControlField,
    dl-CodeInformation
                                                FDD-DL-CodeInformation.
    initialDL-TransmissionPower
                                                DL-Power
                                                                                 OPTIONAL,
    maximumDL-Power
                                                DL-Power
                                                                                 OPTIONAL,
    minimumDL-Power
                                                DL-Power
                                                                                 OPTIONAL,
    not-Used-sSDT-CellIdentity
                                                NULL
                                                                                 OPTIONAL,
    transmitDiversityIndicator
                                                TransmitDiversityIndicator
                                                                                 OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { {
                                                                                RL-InformationItem-RL-AdditionRqstFDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
    . . .
RL-InformationItem-RL-AdditionRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DLReferencePower
                                                         CRITICALITY ignore EXTENSION DL-Power
            PRESENCE optional } |
    { ID id-RL-Specific-DCH-Info
                                                         CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
        PRESENCE optional }
    { ID id-DelayedActivation
                                                         CRITICALITY reject EXTENSION DelayedActivation
        PRESENCE optional } |
    { ID id-E-DCH-RL-Indication
                                                         CRITICALITY reject EXTENSION E-DCH-RL-Indication
        PRESENCE optional } |
     ID id-RL-Specific-E-DCH-Info
                                                         CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
    PRESENCE optional }
    { ID id-SynchronisationIndicator
                                                         CRITICALITY ignore EXTENSION SynchronisationIndicator
    PRESENCE optional }
    { ID id-F-DPCH-SlotFormat
                                                         CRITICALITY reject EXTENSION F-DPCH-SlotFormat
        PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationSetup
                                                         CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup
                                                                                                                                         PRESENCE
optional }|
    { ID id-Non-Serving-RL-Preconfig-Setup
                                                         CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
                                                                                                                                         PRESENCE
optional },
    . . .
E-DPCH-Information-RL-AdditionRegFDD ::= SEQUENCE {
    maxSet-E-DPDCHs
                                                Max-Set-E-DPDCHs,
    ul-PunctureLimit
                                                PunctureLimit,
    e-TFCS-Information
                                                E-TFCS-Information,
    e-TTI
                                                E-TTI,
    e-DPCCH-PO
                                                E-DPCCH-PO,
    e-RGCH-2-IndexStepThreshold
                                                E-RGCH-2-IndexStepThreshold,
    e-RGCH-3-IndexStepThreshold
                                                E-RGCH-3-IndexStepThreshold,
    hARO-Info-for-E-DCH
                                                HARO-Info-for-E-DCH,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DPCH-Information-RL-AdditionRegFDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
E-DPCH-Information-RL-AdditionRegFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                            HSDSCH-Configured-Indicator
    { ID id-HSDSCH-Configured-Indicator
                                            CRITICALITY reject EXTENSION
                                                                                                                          PRESENCE mandatory } |
    -- This shall be present for EDPCH configuration with HSDCH
    { ID id-MinimumReducedE-DPDCH-GainFactor
                                                    CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional },
```

```
**********
-- RADIO LINK ADDITION REQUEST TDD
  ****************
RadioLinkAdditionRequestTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                       {{RadioLinkAdditionRequestTDD-IEs}},
                          ProtocolExtensionContainer
                                                      {{RadioLinkAdditionRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL,
RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                          CRITICALITY reject TYPE NodeB-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                          CRITICALITY reject TYPE UL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                                                                                                   PRESENCE
optional }
    { ID id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                          CRITICALITY reject TYPE DL-CCTrCH-InformationList-RL-AdditionRqstTDD
                                                                                                                                   PRESENCE
optional }|
    { ID id-RL-Information-RL-AdditionRqstTDD
                                                          CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD
    PRESENCE mandatory \}.
RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-TDD-Information
                                                                                                                PRESENCE optional }|
                                          CRITICALITY reject
                                                                  EXTENSION HSDSCH-TDD-Information
                                                                                                                 PRESENCE conditional
    { ID id-HSDSCH-RNTI
                                          CRITICALITY reject
                                                                                                                                           } |
                                                                  EXTENSION HSDSCH-RNTI
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
     ID id-HSPDSCH-RL-ID
                                          CRITICALITY reject
                                                                                                                 PRESENCE optional
                                                                  EXTENSION RL-ID
     ID id-E-DCH-Information
                                          CRITICALITY reject
                                                                  EXTENSION E-DCH-Information
                                                                                                                PRESENCE optional
     ID id-E-DCH-Serving-RL-ID
                                          CRITICALITY reject
                                                                                                                PRESENCE optional
                                                                  EXTENSION RL-ID
     ID id-E-DCH-768-Information
                                          CRITICALITY reject
                                                                  EXTENSION E-DCH-768-Information
                                                                                                                PRESENCE optional
     ID id-E-DCH-LCR-Information
                                          CRITICALITY reject
                                                                  EXTENSION E-DCH-LCR-Information
    PRESENCE optional }
    { ID id-PowerControlGAP
                                          CRITICALITY ignore
                                                                  EXTENSION ControlGAP
    PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
    { ID id-ContinuousPacketConnectivity-DRX-InformationLCR
                                                              CRITICALITY reject
                                                                                     EXTENSION ContinuousPacketConnectivity-DRX-InformationLCR
           PRESENCE optional } |
    { ID id-HS-DSCH-Semi-PersistentScheduling-Information-LCR
                                                                                      EXTENSION HS-DSCH-Semi-PersistentScheduling-Information-LCR
                                                              CRITICALITY reject
       PRESENCE optional } |
     ID id-E-DCH-Semi-PersistentScheduling-Information-LCR
                                                              CRITICALITY reject
                                                                                     EXTENSION E-DCH-Semi-PersistentScheduling-Information-LCR
       PRESENCE optional }
    { ID id-IdleIntervalInformation
                                          CRITICALITY ignore
                                                                  EXTENSION IdleIntervalInformation
                                                                                                                                   PRESENCE
optional }|
                                                CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
     ID id-UE-Selected-MBMS-Service-Information
                                                                                                                            PRESENCE optional
    ID id-HSSCCH-TPC-StepSize
                                          CRITICALITY ignore
                                                                  EXTENSION TDD-TPC-DownlinkStepSize
                                                                                                                                   PRESENCE
optional }|
    { ID id-DCH-MeasurementOccasion-Information CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
                                                                                                                    PRESENCE optional },
```

```
UL-CCTrCH-InformationList-RL-AdditionRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-AdditionRgstTDD
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                                     UL-DPCH-InformationList-RL-AdditionRqstTDD
   uL-DPCH-Information
                                                                          OPTIONAL, -- Applicable to 3.84cps TDD only
                                     ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   optional } | -- Applicable to 1.28cps TDD only
   PRESENCE optional
                                                                                                               } | _ _
Applicable to 1.28cps TDD only
   optional }, -- Applicable to 7.68Mcps TDD only
UL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}
UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
   PRESENCE optional }
   -- For 3.84Mcps TDD only
UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                  RepetitionPeriod,
   repetitionLength
                                  RepetitionLength,
   tdd-DPCHOffset
                                  TDD-DPCHOffset,
   uL-Timeslot-Information
                                  UL-Timeslot-Information,
                                  ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                         OPTIONAL,
UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                  RepetitionPeriod,
   repetitionLength
                                  RepetitionLength,
   tdd-DPCHOffset
                                  TDD-DPCHOffset,
   uL-TimeslotLCR-Information
                                  UL-TimeslotLCR-Information,
                                  ProtocolExtensionContainer { { UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
UL-DPCH-InformationItem-768-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot768-Information
                                            UL-Timeslot768-Information.
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs} }
    OPTIONAL,
UL-DPCH-InformationItem-768-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-AdditionRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRgstTDD
DL-CCTrCH-InformationItem-RL-AdditionRgstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    dL-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRqstTDD
                                                                                    OPTIONAL,
                                                                                                -- Applicable to 3.84Mcps TDD only
                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD
                                                              CRITICALITY notify
                                                                                        EXTENSION DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD
                        optional } | -- Applicable to 1.28Mcps TDD only
    { ID id-CCTrCH-Initial-DL-Power-RL-AdditionRgstTDD
                                                                CRITICALITY ignore
                                                                                         EXTENSION DL-Power
                                                                                                                                        PRESENCE
optional
                                                                                         EXTENSION TDD-TPC-DownlinkStepSize
     ID id-TDD-TPC-DownlinkStepSize-RL-AdditionRgstTDD
                                                                CRITICALITY reject
                                                                                                                                PRESENCE optional
     ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD
                                                                CRITICALITY ignore
                                                                                         EXTENSION DL-Power
                                                                                                                                        PRESENCE
optional }
    { ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRastTDD
                                                                CRITICALITY ignore
                                                                                         EXTENSION DL-Power
                                                                                                                                        PRESENCE
optional
    { ID
           id-DL-DPCH-InformationItem-768-RL-AdditionRgstTDD
                                                                CRITICALITY notify
                                                                                        EXTENSION DL-DPCH-InformationItem-768-RL-AdditionRqstTDD
                       optional }, -- Applicable to 7.68Mcps TDD only
DL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}
DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRgstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-AdditionRgstTDD
                                                                                                                                        PRESENCE
mandatory }
DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information
                                            DL-Timeslot-Information,
```

```
ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
   . . .
DL-DPCH-InformationItem-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                      RepetitionPeriod,
   repetitionLength
                                      RepetitionLength,
   tdd-DPCHOffset
                                      TDD-DPCHOffset,
   dL-TimeslotLCR-Information
                                      DL-TimeslotLCR-Information,
   iE-Extensions
                                      OPTIONAL,
   . . .
DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationItem-768-RL-AdditionRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                      RepetitionPeriod,
   repetitionLength
                                      RepetitionLength,
   tdd-DPCHOffset
                                      TDD-DPCHOffset,
   dL-Timeslot768-Information
                                      DL-Timeslot768-Information,
                                      iE-Extensions
   OPTIONAL,
   . . .
DL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-AdditionRgstTDD ::= SEQUENCE
   rL-ID
                                         RL-ID,
   c-ID
                                         C-ID,
   frameOffset
                                         FrameOffset,
   diversityControlField
                                         DiversityControlField,
   initial-DL-Transmission-Power
                                         DL-Power
                                                           OPTIONAL,
   maximumDL-Power
                                                           OPTIONAL,
                                         DL-Power
   minimumDL-Power
                                                           OPTIONAL,
                                         DL-Power
   dL-TimeSlotISCPInfo
                                         DL-TimeslotISCPInfo OPTIONAL,
                                                                     -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
   iE-Extensions
                                         OPTIONAL,
   . . .
RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD CRITICALITY reject EXTENSION DL-TimeslotISCPInfoLCR
                                                                                                                     PRESENCE
optional }|
```

```
-- Applicable to 1.28Mcps TDD only
     ID id-RL-Specific-DCH-Info
                                                              CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                     PRESENCE
                                                                                                                                   optional
     ID id-DelayedActivation
                                                              CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional }
     ID id-UL-Synchronisation-Parameters-LCR
                                                              CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR
                                                                                                                                   PRESENCE
    optional } | -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    { ID id-UARFCNforNt
                                                              CRITICALITY reject EXTENSION UARFON
                                                                                                                     PRESENCE optional }.
     -- Mandatory for 1.28Mcps TDD when using multiple frequencies
   *****************
-- RADIO LINK ADDITION RESPONSE FDD
          ***************
RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                                       {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                           ProtocolIE-Container
                                                      {{RadioLinkAdditionResponseFDD-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                                            OPTIONAL,
RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID
                                                          CRITICALITY ignore TYPE CRNC-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                          CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                                   PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                                          CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
    . . .
RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-HS-DSCH-Serving-Cell-Change-Info-Response
                                                      CRITICALITY ignore EXTENSION HS-DSCH-Serving-Cell-Change-Info-Response
       PRESENCE optional }
{ ID id-E-DCH-Serving-Cell-Change-Info-Response
                                                      CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response
       PRESENCE optional } |
{ ID id-MAChs-ResetIndicator
                                                      CRITICALITY ignore EXTENSION MAChs-ResetIndicator
               PRESENCE optional }
{ ID id-Additional-HS-Cell-Change-Information-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-Change-Information-Response-List
    PRESENCE optional } |
{ ID id-Additional-EDCH-Cell-Information-Response-RL-Add
                                                          CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RL-Add-List
    PRESENCE optional },
    . . .
Additional-HS-Cell-Change-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Change-Information-Response-
ItemIEs
Additional-HS-Cell-Change-Information-Response-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID
   hS-DSCH-Secondary-Serving-Cell-Change-Information-Response HS-DSCH-Secondary-Serving-Cell-Change-Information-Response,
   iE-Extensions
                                   ProtocolExtensionContainer { { Additional-HS-Cell-Change-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,
```

```
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-
RL-AdditionRspFDD }}
RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD
                                                                                                                                  PRESENCE
mandatory }
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE
   rL-ID
                                      RL-ID,
   rL-Set-ID
                                      RL-Set-ID,
    received-total-wide-band-power
                                      Received-total-wide-band-power-Value,
    diversityIndication
                                      DiversityIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator
                                      SSDT-SupportIndicator,
                                      ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }
   iE-Extensions
                                                                                                                                  OPTIONAL,
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-ActivationIndicator
                                                      CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                  PRESENCE
optional }|
    { ID id-E-DCH-RL-Set-ID
                                                      CRITICALITY ignore EXTENSION RL-Set-ID
               PRESENCE optional } |
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                      CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
    PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationInfo
                                                      CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional } |
    { ID id-Non-Serving-RL-Preconfig-Info
                                                      CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
    PRESENCE optional },
    . . .
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                                  Combining-RL-AdditionRspFDD,
    non-combining
                                                  Non-Combining-RL-AdditionRspFDD
Combining-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                                                  ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } }
   iE-Extensions
                                                                                                                                  OPTIONAL.
CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-E-DCH-FDD-Information-Response
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
    PRESENCE optional },
```

```
Non-Combining-RL-AdditionRspFDD ::= SEQUENCE
       dCH-InformationResponse
                                                                                        DCH-InformationResponse,
       iE-Extensions
                                                                                        ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs} }
                                                                                                                                                                                                                                                        OPTIONAL,
Non-CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
        { ID id-E-DCH-FDD-Information-Response
                                                                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
       PRESENCE optional },
-- RADIO LINK ADDITION RESPONSE TDD
__ **********************
RadioLinkAdditionResponseTDD ::= SEQUENCE {
                                                                                                       {{RadioLinkAdditionResponseTDD-IEs}},
       protocolIEs
                                ProtocolIE-Container
                                                                                                      {{RadioLinkAdditionResponseTDD-Extensions}}
       protocolExtensions
                                             ProtocolExtensionContainer
                                                                                                                                                                                                                            OPTIONAL,
RadioLinkAdditionResponseTDD-IES NBAP-PROTOCOL-IES ::= {
        { ID id-CRNC-CommunicationContextID
                                                                                                       CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                                                                                                                                                        PRESENCE
mandatory }|
       { ID id-RL-InformationResponse-RL-AdditionRspTDD
                                                                                                       CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD
                                                                                                                                                                                                                                                        PRESENCE
                                    -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
       { ID id-CriticalityDiagnostics
                                                                                                      CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                                                                                                                                                        PRESENCE
optional },
{\tt RadioLinkAdditionResponseTDD-Extensions\ NBAP-PROTOCOL-EXTENSION\ ::=\ \{algorithms \ algorithms \ algori
        { ID id-RL-InformationResponse-LCR-RL-AdditionRspTDD
                                                                                                                     CRITICALITY ignore
                                                                                                                                                                        EXTENSION RL-InformationResponse-LCR-RL-AdditionRspTDD
       PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
       { ID id-HSDSCH-TDD-Information-Response
                                                                                                                     CRITICALITY ignore
                                                                                                                                                                        EXTENSION HSDSCH-TDD-Information-Response
              PRESENCE optional |
        { ID id-E-DCH-Information-Response
                                                                                                                     CRITICALITY ignore
                                                                                                                                                                        EXTENSION E-DCH-Information-Response
                     PRESENCE optional }
          ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                                                                                                          CRITICALITY ignore
                                                                                                                                                                                                                    EXTENSION
ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                                                                            PRESENCE optional }
        { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                                                                                           CRITICALITY ignore
                                                                                                                                                                                                                    EXTENSION HS-DSCH-Semi-
PersistentScheduling-Information-ResponseLCR
                                                                                                      PRESENCE optional }
        { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                                                                                    CRITICALITY ignore
                                                                                                                                                                                                                    EXTENSION E-DCH-Semi-
PersistentScheduling-Information-ResponseLCR
                                                                                                      PRESENCE optional },
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
```

```
rL-ID
                                           RL-ID.
   uL-TimeSlot-ISCP-Info
                                           UL-TimeSlot-ISCP-Info,
   ul-PhysCH-SF-Variation
                                           UL-PhysCH-SF-Variation,
   dCH-Information
                                           DCH-Information-RL-AdditionRspTDD
       OPTIONAL.
   dSCH-InformationResponseList
                                           DSCH-InformationResponseList-RL-AdditionRspTDD
       OPTIONAL,
   uSCH-InformationResponseList
                                           USCH-InformationResponseList-RL-AdditionRspTDD
      OPTIONAL,
                                           iE-Extensions
   OPTIONAL,
   . . .
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE
   diversityIndication
                                    DiversityIndication-RL-AdditionRspTDD,
   iE-Extensions
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
   . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionRspTDD ::= CHOICE
                                                                        -- Indicates whether the old Transport Bearer shall be reused or
   combining
                                           Combining-RL-AdditionRspTDD,
not
   non-Combining
                                           Non-Combining-RL-AdditionRspTDD
Combining-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                                           RL-ID, -- Reference RL
   iE-Extensions
                                           ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } }
                                                                                                                           OPTIONAL,
CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Non-Combining-RL-AdditionRspTDD ::= SEQUENCE {
   dCH-InformationResponse
                                           DCH-InformationResponse,
   iE-Extensions
                                           OPTIONAL,
   . . .
Non-CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}
DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
     ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                        PRESENCE mandatory }
USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-AdditionRspTDD }}
USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
RL-InformationResponse-LCR-RL-AdditionRspTDD ::= SEQUENCE
   uL-TimeSlot-ISCP-InfoLCR
                                            UL-TimeSlot-ISCP-LCR-Info,
                                            UL-PhysCH-SF-Variation,
   ul-PhysCH-SF-Variation
   dCH-Information
                                            DCH-Information-RL-AdditionRspTDD
                                                                                                                             OPTIONAL,
   dSCH-InformationResponseList
                                            DSCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                                             OPTIONAL,
   uSCH-InformationResponseList
                                            USCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                                             OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs} }
                                                                                                                             OPTIONAL,
RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    RADIO LINK ADDITION FAILURE FDD
           RadioLinkAdditionFailureFDD ::= SEOUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                    {{RadioLinkAdditionFailureFDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer
                                                  {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                              OPTIONAL,
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID
                                               CRITICALITY ignore
                                                                     TYPE CRNC-CommunicationContextID
   PRESENCE mandatory } |
   { ID id-CauseLevel-RL-AdditionFailureFDD
                                               CRITICALITY ignore
                                                                     TYPE CauseLevel-RL-AdditionFailureFDD
   PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
                                               CRITICALITY ignore
                                                                     TYPE CriticalityDiagnostics
   PRESENCE optional },
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-HS-DSCH-Serving-Cell-Change-Info-Response
                                                   CRITICALITY ignore EXTENSION HS-DSCH-Serving-Cell-Change-Info-Response
       PRESENCE optional } |
```

```
{ ID id-E-DCH-Serving-Cell-Change-Info-Response
                                                        CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response
        PRESENCE optional } |
{ ID id-Additional-HS-Cell-Change-Information-Response
                                                        CRITICALITY ignore EXTENSION Additional-HS-Cell-Change-Information-Response-List
    PRESENCE optional }
{ ID id-MAChs-ResetIndicator
                                                        CRITICALITY ignore EXTENSION MAChs-ResetIndicator
                PRESENCE optional } |
{ ID id-Additional-EDCH-Cell-Information-Response-RL-Add
                                                            CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RL-Add-List
    PRESENCE optional }.
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause
                        GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause
                        RLSpecificCauseList-RL-AdditionFailureFDD,
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
                                                ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEOUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                    Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                    Successful-RL-InformationRespList-RL-AdditionFailureFDD
        OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs} }
    OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-
AdditionFailureFDD PRESENCE mandatory }
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    cause
    iE-Extensions
                                ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs} }
    OPTIONAL,
```

```
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-2)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-
AdditionFailureFDD PRESENCE mandatory }
Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID
                                              RL-ID,
   rL-Set-ID
                                              RL-Set-ID,
                                              Received-total-wide-band-power-Value,
    received-total-wide-band-power
                                              DiversityIndication-RL-AdditionFailureFDD,
    diversityIndication
    sSDT-SupportIndicator
                                              SSDT-SupportIndicator,
                                              ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs} }
   iE-Extensions
       OPTIONAL,
    . . .
Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-ActivationIndicator
                                                      CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                   PRESENCE
optional }|
    { ID id-E-DCH-RL-Set-ID
                                                      CRITICALITY ignore EXTENSION RL-Set-ID
               PRESENCE optional }
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                      CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
    PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationInfo
                                                      CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional } |
    { ID id-Non-Serving-RL-Preconfig-Info
                                                      CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
    PRESENCE optional },
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                  Combining-RL-AdditionFailureFDD,
                                  Non-Combining-RL-AdditionFailureFDD
   non-Combining
Combining-RL-AdditionFailureFDD ::= SEOUENCE {
   rI.-ID
   iE-Extensions
                                              OPTIONAL,
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-E-DCH-FDD-Information-Response
                                                       CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
    PRESENCE optional },
    . . .
Non-Combining-RL-AdditionFailureFDD ::= SEQUENCE
    dCH-InformationResponse
                                               DCH-InformationResponse,
    iE-Extensions
                                               ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs} }
    OPTIONAL,
    . . .
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
    PRESENCE optional },
  *****************
-- RADIO LINK ADDITION FAILURE TDD
RadioLinkAdditionFailureTDD ::= SEQUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                        {{RadioLinkAdditionFailureTDD-IEs}},
                           ProtocolExtensionContainer
                                                       {{RadioLinkAdditionFailureTDD-Extensions}}
    protocolExtensions
                                                                                                                      OPTIONAL,
RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
           id-CRNC-CommunicationContextID
                                                       CRITICALITY ignore
                                                                              TYPE CRNC-CommunicationContextID
                                                                                                                             PRESENCE mandatory
} |
           id-CauseLevel-RL-AdditionFailureTDD
                                                                              TYPE CauseLevel-RL-AdditionFailureTDD
     ID
                                                       CRITICALITY ignore
                                                                                                                             PRESENCE mandatory
                                                                                                                             PRESENCE optional },
    { ID
           id-CriticalityDiagnostics
                                                       CRITICALITY ignore
                                                                              TYPE CriticalityDiagnostics
RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
    generalCause
                       GeneralCauseList-RL-AdditionFailureTDD.
                       RLSpecificCauseList-RL-AdditionFailureTDD,
    rLSpecificCause
    . . .
GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
    cause
    iE-Extensions
                               ProtocolExtensionContainer { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs} }
                                                                                                                      OPTIONAL,
```

```
GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
   unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD
                                                              Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
   iE-Extensions
                                                              ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs} }
       OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-
AdditionFailureTDD} }
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD
    PRESENCE mandatory }
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD ::= SEQUENCE {
   rL-ID
                                   RL-ID,
    cause
   iE-Extensions
                                   ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs} }
   OPTIONAL,
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK RECONFIGURATION PREPARE FDD
__ ********************
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
                                                       {{RadioLinkReconfigurationPrepareFDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                                                       {{RadioLinkReconfigurationPrepareFDD-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                                      OPTIONAL,
RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                           CRITICALITY reject TYPE NodeB-CommunicationContextID
       PRESENCE mandatory }
     ID id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                          CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD
       PRESENCE optional } |
```

```
{ ID id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD
       PRESENCE optional }
     ID id-FDD-DCHs-to-Modify
                                                         CRITICALITY reject TYPE FDD-DCHs-to-Modify
       PRESENCE optional }
    { ID id-DCHs-to-Add-FDD
                                                         CRITICALITY reject TYPE DCH-FDD-Information
       PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD
       PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD
       PRESENCE optional }
    PRESENCE optional },
RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SignallingBearerRequestIndicator
                                                 CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
                                                                                                                                PRESENCE
optional }|
    { ID id-HSDSCH-FDD-Information
                                                 CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                                PRESENCE
optional }
    { ID id-HSDSCH-Information-to-Modify
                                                 CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
                                                                                                                                PRESENCE
optional }
    { ID id-HSDSCH-MACdFlows-to-Add
                                                 CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                                PRESENCE
optional }|
   { ID id-HSDSCH-MACdFlows-to-Delete
                                                 CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                                PRESENCE
optional }|
    { ID id-HSDSCH-RNTI
                                                 CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                                PRESENCE
conditional }|
   -- The IE shall be present if HS-PDSCH RL ID IE is present.
   { ID id-HSPDSCH-RL-ID
                                                 CRITICALITY reject EXTENSION RL-ID
                                                                                                                                PRESENCE
optional }
    { ID id-E-DPCH-Information-RL-ReconfPrepFDD
                                                 CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                                PRESENCE
optional }|
    { ID id-E-DCH-FDD-Information
                                                                                                                                PRESENCE
                                                 CRITICALITY reject EXTENSION E-DCH-FDD-Information
optional }|
    { ID id-E-DCH-FDD-Information-to-Modify
                                                 CRITICALITY reject EXTENSION E-DCH-FDD-Information-to-Modify
                                                                                                                                PRESENCE
optional }|
    { ID id-E-DCH-MACdFlows-to-Add
                                                 CRITICALITY reject EXTENSION E-DCH-MACdFlows-Information
                                                                                                                                PRESENCE
optional }
    { ID id-E-DCH-MACdFlows-to-Delete
                                                 CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
                                                                                                                                PRESENCE
optional }
    { ID id-Serving-E-DCH-RL-ID
                                                 CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                                PRESENCE
optional }|
    { ID id-F-DPCH-Information-RL-ReconfPrepFDD
                                                 CRITICALITY reject EXTENSION F-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                                PRESENCE
optional }
    { ID id-Fast-Reconfiguration-Mode
                                                 CRITICALITY ignore EXTENSION Fast-Reconfiguration-Mode
                                                                                                                                PRESENCE
optional }|
    { ID id-CPC-Information
                                                 CRITICALITY reject EXTENSION CPC-Information
                                                                                                                                PRESENCE
optional }|
    { ID id-Additional-HS-Cell-Information-RL-Reconf-Prep CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Reconf-Prep
       PRESENCE optional }
    { ID id-UE-AggregateMaximumBitRate
                                                 CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate
    PRESENCE optional }
```

```
{ ID id-Additional-EDCH-Cell-Information-RL-Reconf-Prep CRITICALITY reject EXTENSION Additional-EDCH-Cell-Information-RL-Reconf-Prep
        PRESENCE optional }.
    . . .
Additional-HS-Cell-Information-RL-Reconf-Prep ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs
Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID
                                                    RL-ID,
    c-ID
                                                    C-ID
                                                                                                          OPTIONAL,
    hS-DSCH-FDD-Secondary-Serving-Information
                                                    HS-DSCH-FDD-Secondary-Serving-Information
                                                                                                          OPTIONAL,
    hs-DscH-secondary-serving-Information-To-Modify Hs-DscH-secondary-serving-Information-To-Modify
                                                                                                          OPTIONAL,
    hS-HS-DSCH-Secondary-Serving-Remove
                                                    HS-DSCH-Secondary-Serving-Remove
                                                                                                          OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs-ExtIEs} } OPTIONAL,
Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs-ExtIEs
                                                                NBAP-PROTOCOL-EXTENSION ::=
Additional-EDCH-Cell-Information-RL-Reconf-Prep ::=SEQUENCE{
    setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency
                                                                                                          Setup-Or-ConfigurationChange-Or-Removal-
Of-EDCH-On-secondary-UL-Frequency,
                                    ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Reconf-Prep-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-Cell-Information-RL-Reconf-Prep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode
                                                    UL-ScramblingCode
                                                                                         OPTIONAL,
    ul-SIR-Target
                                                    UL-SIR
                                                                                         OPTIONAL,
    minUL-ChannelisationCodeLength
                                                    MinUL-ChannelisationCodeLength
                                                                                         OPTIONAL,
                                                    MaxNrOfUL-DPDCHs
    maxNrOfUL-DPDCHs
                                                                                         OPTIONAL,
    -- This IE shall be present if minUL-ChannelisationCodeLength Ie is set to 4
    ul-PunctureLimit
                                                    PunctureLimit
                                                                                         OPTIONAL,
    t.FCS
                                                    TFCS
                                                                                         OPTIONAL,
    ul-DPCCH-SlotFormat
                                                    UL-DPCCH-SlotFormat
                                                                                         OPTIONAL,
                                                    DiversityMode
    diversityMode
                                                                                        OPTIONAL,
    not-Used-sSDT-CellIDLength
                                                    NULL
                                                                                         OPTIONAL,
    not-Used-s-FieldLength
                                                    NULL
                                                                                         OPTIONAL,
                                                    ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation
    PRESENCE optional },
    . . .
```

```
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
                                                  TFCS
                                                                                     OPTIONAL,
    dl-DPCH-SlotFormat
                                                  DL-DPCH-SlotFormat
                                                                                     OPTIONAL.
   tFCI-SignallingMode
                                                  TFCI-SignallingMode
                                                                                     OPTIONAL,
   tFCI-Presence
                                                  TFCI-Presence
                                                                                     OPTIONAL,
    -- This IE shall be present if the DL DPCH Slot Format IE is set to any of the values from 12 to 16
   multiplexingPosition
                                                  MultiplexingPosition
                                                                                     OPTIONAL,
   not-Used-pDSCH-CodeMapping
                                                  NULL
                                                                                     OPTIONAL,
   not-Used-pDSCH-RL-ID
                                                  NULL
                                                                                     OPTIONAL,
   limitedPowerIncrease
                                                  LimitedPowerIncrease
                                                                                     OPTIONAL,
                                                  ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD CRITICALITY reject EXTENSION DL-DPCH-Power-Information-RL-ReconfPrepFDD
                                                                                                                                  PRESENCE
optional },
DL-DPCH-Power-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   powerOffsetInformation
                                          PowerOffsetInformation-RL-ReconfPrepFDD,
    fdd-TPC-DownlinkStepSize
                                          FDD-TPC-DownlinkStepSize,
    innerLoopDLPCStatus
                                          InnerLoopDLPCStatus,
                                          ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } }
    iE-Extensions
   OPTIONAL,
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
                                          PowerOffset,
    pO1-ForTFCI-Bits
   pO2-ForTPC-Bits
                                          PowerOffset,
   pO3-ForPilotBits
                                          PowerOffset,
                                          iE-Extensions
                                                                                                                                  OPTIONAL,
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dCH-ID
   iE-Extensions
                                                  ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } 
                                                                                                                                  OPTIONAL,
```

```
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfPrepFDD }}
RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationItem-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                                      TYPE
                                                                                                             RL-InformationItem-RL-
                                                                       reiect
ReconfPrepFDD
                  PRESENCE
                             mandatory}
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dl-CodeInformation
                                                 FDD-DL-CodeInformation
                                                                                          OPTIONAL,
   maxDL-Power
                                                 DL-Power
                                                                                          OPTIONAL,
   minDL-Power
                                                 DL-Power
                                                                                          OPTIONAL,
                                                 NULL
   not-Used-sSDT-Indication
                                                                                          OPTIONAL,
   not-Used-sSDT-Cell-Identity
                                                NULL
                                                                                          OPTIONAL,
   transmitDiversityIndicator
                                                TransmitDiversityIndicator
                                                                                          OPTIONAL,
   -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to 'none'
                                                 iE-Extensions
   OPTIONAL,
RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-DLReferencePower
                                                 CRITICALITY ignore EXTENSION DL-Power
           PRESENCE optional } |
    { ID id-RL-Specific-DCH-Info
                                                 CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
       PRESENCE optional }
    { ID id-DL-DPCH-TimingAdjustment
                                                 CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment
       PRESENCE optional } |
    { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation
                                                                                                                               PRESENCE
optional }|
    { ID id-Secondary-CPICH-Information-Change
                                                 CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change
                                                                                                                               PRESENCE
optional }|
   { ID id-E-DCH-RL-Indication
                                                 CRITICALITY reject EXTENSION E-DCH-RL-Indication
       PRESENCE optional }
    { ID id-RL-Specific-E-DCH-Info
                                                 CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
   PRESENCE optional }
    { ID id-F-DPCH-SlotFormat
                                                 CRITICALITY reject EXTENSION F-DPCH-SlotFormat
           CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup
                  PRESENCE optional }
    { ID id-Non-Serving-RL-Preconfig-Setup
                                                 CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
   PRESENCE optional }
   { ID id-Non-Serving-RL-Preconfig-Removal
                                                 CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
   PRESENCE optional },
   . . .
E-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
```

```
maxSet-E-DPDCHs
                                               Max-Set-E-DPDCHs
   OPTIONAL,
    ul-PunctureLimit
                                               PunctureLimit
    OPTIONAL,
    e-TFCS-Information
                                               E-TFCS-Information
    OPTIONAL,
    e-TTI
                                               E-TTI
    OPTIONAL,
    e-DPCCH-PO
                                               E-DPCCH-PO
    OPTIONAL,
    e-RGCH-2-IndexStepThreshold
                                               E-RGCH-2-IndexStepThreshold
    OPTIONAL,
    e-RGCH-3-IndexStepThreshold
                                               E-RGCH-3-IndexStepThreshold
               OPTIONAL,
    hARO-Info-for-E-DCH
                                               HARO-Info-for-E-DCH
               OPTIONAL,
    hSDSCH-Configured-Indicator
                                               HSDSCH-Configured-Indicator
               OPTIONAL,
                                               ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                     OPTIONAL,
E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MinimumReducedE-DPDCH-GainFactor
                                                  CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional },
F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    powerOffsetInformation
                                       PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
    fdd-TPC-DownlinkStepSize
                                       FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                       LimitedPowerIncrease,
    innerLoopDLPCStatus
                                       InnerLoopDLPCStatus,
    iE-Extensions
                                       ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
    OPTIONAL,
    . . .
F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE {
                                       PowerOffset,
    pO2-ForTPC-Bits
    -- This IE shall be ignored by Node B
   iE-Extensions
                                       ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                                     OPTIONAL,
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
  ******************
```

```
-- RADIO LINK RECONFIGURATION PREPARE TDD
  ******************
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
    protocolIEs
                          ProtocolIE-Container
                                                       {{RadioLinkReconfigurationPrepareTDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}}
    protocolExtensions
                                                                                                                      OPTIONAL,
RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                              CRITICALITY reject TYPE NodeB-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                              CRITICALITY reject TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
       PRESENCE optional }
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                              CRITICALITY reject TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
       PRESENCE optional }
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
        PRESENCE optional }
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
       PRESENCE optional }
    { ID id-TDD-DCHs-to-Modify
                                                               CRITICALITY reject TYPE TDD-DCHs-to-Modify
    PRESENCE optional } |
    { ID id-DCHs-to-Add-TDD
                                                               CRITICALITY reject TYPE DCH-TDD-Information
    PRESENCE optional }
    { ID id-DCH-DeleteList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional }
    { ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
       PRESENCE optional } |
    { ID id-DSCHs-to-Add-TDD
                                                               CRITICALITY reject TYPE DSCH-TDD-Information
    PRESENCE optional } |
    { ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
       PRESENCE optional }
    { ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
       PRESENCE optional } |
    { ID id-USCH-Information-Add
                                                               CRITICALITY reject TYPE USCH-Information
    PRESENCE optional }
    { ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD
                                                               CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
       PRESENCE optional } |
    { ID id-RL-Information-RL-ReconfPrepTDD
                                                              CRITICALITY reject TYPE RL-Information-RL-ReconfPrepTDD
    PRESENCE optional }.
-- This RL Information is the for the 1st RL IE repetition
RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SignallingBearerRequestIndicator
                                                  CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
    PRESENCE optional }
    { ID id-HSDSCH-TDD-Information
                                                   CRITICALITY reject EXTENSION HSDSCH-TDD-Information
    PRESENCE optional } |
```

. . .

```
id-HSDSCH-Information-to-Modify
                                                    CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
    PRESENCE optional }
    { ID id-HSDSCH-MACdFlows-to-Add
                                                    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
    PRESENCE optional }
           id-HSDSCH-MACdFlows-to-Delete
                                                    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
    PRESENCE optional }
    { ID id-HSDSCH-RNTI
                                                    CRITICALITY reject EXTENSION HSDSCH-RNTI
           PRESENCE conditional }
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
    { ID id-HSPDSCH-RL-ID
                                                    CRITICALITY reject EXTENSION RL-ID
           PRESENCE optional } |
           id-PDSCH-RL-ID
                                                    CRITICALITY ignore EXTENSION RL-ID
           PRESENCE optional } |
    { ID id-multiple-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD PRESENCE optional }
-- This RL Information is the for the 2nd and beyond repetition of RL information,
    { ID id-E-DCH-Information-Reconfig
                                                    CRITICALITY reject EXTENSION E-DCH-Information-Reconfig
    PRESENCE optional } |
    { ID id-E-DCH-Serving-RL-ID
                                                    CRITICALITY reject EXTENSION RL-ID
           PRESENCE optional } |
    { ID id-E-DCH-768-Information-Reconfig
                                                    CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig
    PRESENCE optional } |
    { ID id-E-DCH-LCR-Information-Reconfig
                                                    CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig
    PRESENCE optional } |
    { ID id-PowerControlGAP
                                                    CRITICALITY ignore EXTENSION ControlGAP
           PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
    { ID id-CPC-InformationLCR
                                                    CRITICALITY reject EXTENSION CPC-InformationLCR
            PRESENCE optional } |
    { ID id-IdleIntervalInformation
                                                    CRITICALITY ignore EXTENSION IdleIntervalInformation
       PRESENCE optional }
    { ID id-UE-Selected-MBMS-Service-Information
                                                    CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
                                                                                                                                       PRESENCE
optional }|
    { ID id-HSSCCH-TPC-StepSize
                                                    CRITICALITY ignore EXTENSION TDD-TPC-DownlinkStepSize
        PRESENCE optional }
    { ID id-DCH-MeasurementOccasion-Information
                                                    CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
                                                                                                                                       PRESENCE
optional }|
    { ID id-HSDSCH-RNTI-For-FACH
                                                    CRITICALITY ignore EXTENSION HSDSCH-RNTI
           PRESENCE optional },
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
                                                CCTrCH-ID.
    cCTrCH-ID
    tFCS
                                                TFCS,
    tFCI-Coding
                                                TFCI-Coding,
    punctureLimit
                                                PunctureLimit,
    ul-DPCH-InformationList
                                                UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationAddList-RL-ReconfPrepTDD
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
```

```
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationAddList-RL-ReconfPrepTDD
    { ID id-UL-SIRTarget
                                                            CRITICALITY reject EXTENSION UL-SIR
                                                                                                             PRESENCE optional }
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
-- This Information is the for the first RL repetition, SIR Target information for RL repetitions 2 and on, should be defined in MultipleRL-UL-
DPCH-InformationAddList-RL-ReconfPrepTDD
    { ID id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR
                                                                                                                                PRESENCE
optional }|
-- This Information is the for the first RL repetition, TPCinformation for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationAddList-RL-ReconfPrepTDD
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-RL-ID
                                                            CRITICALITY ignore EXTENSION RL-ID
                                                                                                              PRESENCE optional }
-- This is the RL ID for the first RL repetition
   { ID id-multipleRL-ul-DPCH-InformationList
                                                            CRITICALITY reject EXTENSION MultipleRL-UL-DPCH-InformationAddList-RL-
ReconfPrepTDD PRESENCE optional } |
-- This Information is the for the 2nd and beyond RL repetition,
    { ID id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }, -- Applicable to 7.68Mcps TDD only, first radio link
    . . .
UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                               TYPE UL-DPCH-InformationAddItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE
                                         RepetitionPeriod.
   repetitionPeriod
    repetitionLength
                                         RepetitionLength,
    tdd-DPCHOffset
                                         TDD-DPCHOffset,
    uL-Timeslot-Information
                                         UL-Timeslot-Information,
   iE-Extensions
                                         ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
   repetitionPeriod
                                         RepetitionPeriod,
                                         RepetitionLength,
    repetitionLength
    tdd-DPCHOffset
                                         TDD-DPCHOffset,
    uL-Timeslot-InformationLCR
                                         UL-TimeslotLCR-Information,
    iE-Extensions
                                         ProtocolExtensionContainer { { UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
```

```
UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationAddListIE-RL-
Reconf PrepTDD
--Includes the 2nd through the max number of radio link repetitions.
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE
   ul-DPCH-InformationList
                                             UL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                           OPTIONAL
   ul-DPCH-InformationListLCR
                                             UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
   ul-sir-target
                                                                                           OPTIONAL,
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    tDD-TPC-UplinkStepSize-LCR
                                             TDD-TPC-UplinkStepSize-LCR
                                                                                           OPTIONAL,
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    rL-ID
                                                                                           OPTIONAL,
   iE-Extensions
                                             ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} }
       OPTIONAL,
    . . .
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    PRESENCE optional },
    . . .
UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
   repetitionPeriod
                                         RepetitionPeriod,
   repetitionLength
                                         RepetitionLength,
   tdd-DPCHOffset
                                         TDD-DPCHOffset,
   uL-Timeslot-Information768
                                         UL-Timeslot768-Information.
   iE-Extensions
                                         ProtocolExtensionContainer { { UL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
UL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEOUENCE {
   cCTrCH-ID
                                             CCTrCH-ID.
   tFCS
                                             TFCS
                                                                                                              OPTIONAL,
    tFCI-Coding
                                             TFCI-Coding
                                                                                                             OPTIONAL,
   punctureLimit
                                             PunctureLimit
                                                                                                             OPTIONAL,
   ul-DPCH-InformationAddList
                                             UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                             OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
```

```
ul-DPCH-InformationModifyList
                                               UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                 OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
   ul-DPCH-InformationDeleteList
                                               UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                 OPTIONAL.
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    iE-Extensions
                                               ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
    . . .
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-LCR-InformationModify-AddList
                                                   CRITICALITY reject
                                                                          EXTENSION
                                                                                       UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
       PRESENCE optional }
                               -- Applicable to 1.28Mcps TDD only
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    { ID id-UL-SIRTarget
                               CRITICALITY reject
                                                       EXTENSION
                                                                                  PRESENCE optional
                                                                                                                 } |
                                                                      UL-SIR
    -- Applicable to 1.28Mcps TDD only.
-- This Information is the for the first RL repetition, SIR Target information for RL repetitions 2 and on, should be defined in MultipleRL-UL-
DPCH-InformationModifyList-RL-ReconfPrepTDD
    { ID id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD
                                                                                  CRITICALITY reject
                                                                                                              EXTENSION
                                                                                                                             TDD-TPC-
UplinkStepSize-LCR PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
-- This Information is the for the first RL repetition. Step Size information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    { ID id-RL-ID
                                                       CRITICALITY ignore
                                                                              EXTENSION
                                                                                              RL-ID
                                                                                                                     PRESENCE optional
                                                                                                                                            } |
-- This is the RL ID for the first RL repetition
    { ID id-multipleRL-ul-DPCH-InformationModifyList
                                                      CRITICALITY reject
                                                                              EXTENSION
                                                                                              MultipleRL-UL-DPCH-InformationModifyList-RL-
ReconfPrepTDD PRESENCE optional } |
-- This DPCH Information is the for the 2nd and beyond RL repetition,
   { ID id-UL-DPCH-768-InformationModify-AddItem
                                                   CRITICALITY reject
                                                                          EXTENSION
                                                                                       UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD
       PRESENCE optional },
                              -- Applicable to 7.68Mcps TDD only
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    TYPE UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
       PRESENCE mandatory }
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEOUENCE {
    repetitionPeriod
                                           RepetitionPeriod,
    repetitionLength
                                           RepetitionLength,
                                           TDD-DPCHOffset,
    tdd-DPCHOffset
    uL-Timeslot-Information
                                           UL-Timeslot-Information,
   iE-Extensions
                                           ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
    . . .
```

```
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModifyListIEs-RL-ReconfPrepTDD
UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                TYPE UL-DPCH-InformationModify-ModifyItem-RL-
                    PRESENCE mandatory }
ReconfPrepTDD
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod
                                                                OPTIONAL,
    repetitionLength
                                            RepetitionLength
                                                                OPTIONAL,
    tdd-DPCHOffset
                                            TDD-DPCHOffset
                                                                OPTIONAL,
    uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
   OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD
                                                            CRITICALITY reject
                                                                                    EXTENSION
                                                                                                UL-TimeslotLCR-InformationModify-ModifyList-RL-
Reconf PrepTDD
                    PRESENCE optional }
                                          -- Applicable to 1.28Mcps TDD only
    { ID id-UL-Timeslot768-Information-RL-ReconfPrepTDD
                                                           CRITICALITY reject
                                                                                    EXTENSION
                                                                                                UL-Timeslot768-InformationModify-ModifyList-RL-
ReconfPrepTDD
                    PRESENCE optional },
                                          -- Applicable to 7.68Mcps TDD only
    . . .
UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD -- Applicable to 3.84Mcps TDD only
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot
                                           TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                            OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                            OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                        UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                       OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    . . .
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-
Reconf PrepTDD
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpcH-ID
                                            DPCH-ID.
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                        OPTIONAL,
```

```
ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
    . . .
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfPrepTDD -- Applicable to 1.28Mcps TDD only
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
   timeSlotLCR
                                          TimeSlotLCR.
   midambleShiftLCR
                                          MidambleShiftLCR
                                                             OPTIONAL,
   tFCI-Presence
                                          TFCI-Presence
                                                             OPTIONAL,
   uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR
                                                                        UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR
   OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
       OPTIONAL,
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    EXTENSION PLCCHinformation
                                                                                                               PRESENCE optional }.
    . . .
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF UL-Code-InformationModify-ModifyItem-RL-
ReconfPrepTDDLCR
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR ::= SEQUENCE {
   dPCH-ID
                                          DPCH-ID.
   tdd-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR
                                                                        OPTIONAL,
   iE-Extensions
                                          OPTIONAL,
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE
optional },
UL-Timeslot768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfULTSs))
RL-ReconfPrepTDD
                  -- Applicable to 7.68Mcps TDD only
UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot
                                          TimeSlot,
    midambleShiftAndBurstType768
                                          MidambleShiftAndBurstType768
                                                                        OPTIONAL,
    t.FCI-Presence
                                          TFCI-Presence
                                                                        OPTIONAL,
```

```
uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768
                                                                         UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768
   OPTIONAL.
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
       OPTIONAL.
    . . .
UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768 ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-
ReconfPrepTDD768
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768 ::= SEQUENCE
                                          DPCH-ID,
    tdd-ChannelisationCode768
                                          TDD-ChannelisationCode768
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIEs} }
   OPTIONAL,
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD
}}
UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    TYPE UL-DPCH-InformationModify-DeleteListIE-RL-
Reconf PrepTDD
                   PRESENCE mandatory }
UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-DeleteItem-RL-
Reconf PrepTDD
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dPCH-ID
   iE-Extensions
                                      ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
    . . .
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
    tdd-DPCHOffset
                                          TDD-DPCHOffset,
   uL-Timeslot-InformationLCR
                                          UL-TimeslotLCR-Information,
```

```
ProtocolExtensionContainer { { UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationModifyListIE-RL-
Reconf PrepTDD
--Includes the 2nd through the max number of radio link information repetitions.
MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE {
   ul-DPCH-InformationAddList
                                              UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                OPTIONAL,
                                              UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
   ul-DPCH-InformationModifyList
                                                                                                                OPTIONAL,
   ul-DPCH-InformationDeleteList
                                              UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                OPTIONAL,
   ul-DPCH-InformationAddListLCR
                                              UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                OPTIONAL,
    ul-sir-target
                                                                                                                OPTIONAL,
   tDD-TPC-UplinkStepSize-LCR
                                              TDD-TPC-UplinkStepSize-LCR
                                                                                                                OPTIONAL,
   rI.-ID
                                              RL-ID
                                                                                                                OPTIONAL,
    -- This DPCH Information is the for the 2nd and beyond RL repetitions,
                                              ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs}
   iE-Extensions
       OPTIONAL,
MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-768-InformationModify-AddList
                                                   CRITICALITY reject
                                                                          EXTENSION UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD
    PRESENCE optional },
                         -- Applicable to 7.68Mcps TDD only
    . . .
UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
   repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
   tdd-DPCHOffset
                                          TDD-DPCHOffset,
    uL-Timeslot-Information768
                                          UL-Timeslot768-Information,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
UL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
   iE-Extensions
                                              OPTIONAL,
    . . .
```

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```
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID.
    t FCS
                                                    TFCS,
    tFCI-Coding
                                                    TFCI-Coding
    punctureLimit
                                                    PunctureLimit.
    cCTrCH-TPCList
                                                    CCTrCH-TPCAddList-RL-ReconfPrepTDD
                                                                                                                   OPTIONAL.
    dl-DPCH-InformationList
                                                    DL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                                   OPTIONAL.
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationAddList-RL-ReconfPrepTDD
    iE-Extensions
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
       OPTIONAL,
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
                                                                        CRITICALITY reject EXTENSION DL-DPCH-LCR-InformationAddList-RL-
                   PRESENCE optional } -- Applicable to 1.28Mcps TDD only
Reconf PrepTDD
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationAddList-RL-ReconfPrepTDD
    { ID id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD
                                                                                                                   PRESENCE optional }|
                                                                       CRITICALITY ignore EXTENSION DL-Power
-- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-
DL-DPCH-InformationAddList-RL-ReconfPrepTDD
    { ID id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD
                                                                       CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional \| \|
-- This DL step size is the for the first RL repetition, DL step size information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
DPCH-InformationAddList-RL-ReconfPrepTDD
    { ID id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD
                                                                        CRITICALITY ignore EXTENSION DL-Power
                                                                                                                   PRESENCE optional }|
-- This DL Power information is the for the first RL repetition. DL power information for RL repetitions 2 and on, should be defined in MultipleRL-
DL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                                   PRESENCE optional }|
    { ID id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD
                                                                        CRITICALITY ignore EXTENSION DL-Power
-- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-
DL-DPCH-InformationAddList-RL-ReconfPrepTDD
    { ID id-RL-ID
                                                                        CRITICALITY ignore EXTENSION RL-ID
                                                                                                                   PRESENCE optional }|
-- This is the RL ID for the first RL repetition
    { ID id-multipleRL-dl-DPCH-InformationList
                                                                        CRITICALITY reject EXTENSION MultipleRL-DL-DPCH-InformationAddList-RL-
ReconfPrepTDD PRESENCE optional } |
-- This DPCH Information is the for the 2nd and beyond RL repetition,
    { ID id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD
                                                                        CRITICALITY reject EXTENSION DL-DPCH-768-InformationAddList-RL-
                   PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
ReconfPrepTDD
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
                                                                                                                        -- Applicable to 3.84Mcps
TDD and 7.68Mcps TDD only
CCTrCH-TPCAddItem-RL-ReconfPrepTDD
                                    ::= SEQUENCE {
    cCTrCH-ID
                                           CCTrCH-ID,
```

```
ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs} } }
   iE-Extensions
                                                                                                                            OPTIONAL,
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                TYPE DL-DPCH-InformationAddItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE
    repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
                                          TDD-DPCHOffset,
    tdd-DPCHOffset
   dL-Timeslot-Information
                                          DL-Timeslot-Information,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
    . . .
DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
   repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
   tdd-DPCHOffset
                                          TDD-DPCHOffset,
   dL-Timeslot-InformationLCR
                                          DL-TimeslotLCR-Information,
                                          iE-Extensions
   OPTIONAL,
    . . .
DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationAddListIE-RL-
Reconf PrepTDD
    --Includes the 2nd through the max number of radio link information repetitions.
MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE {
   dl-DPCH-InformationList
                                                              DL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                                OPTIONAL,
   dl-DPCH-InformationListLCR
                                                              DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
                                                                                                                OPTIONAL,
    cCTrCH-Initial-DL-Power
                                                              DL-Power
                                                                                                                OPTIONAL,
    tDD-TPC-DownlinkStepSize
                                                              TDD-TPC-DownlinkStepSize
                                                                                                                OPTIONAL,
    cCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD
                                                              DL-Power
                                                                                                                OPTIONAL,
    cCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD
                                                              DL-Power
                                                                                                                OPTIONAL,
```

```
rL-ID
                                                                RL-ID
    iE-Extensions
                                    ProtocolExtensionContainer { { MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL.
MultiplerL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD
                                                                CRITICALITY reject EXTENSION DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional },
                         -- Applicable to 7.68Mcps TDD only
    . . .
DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod.
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information768
                                            DL-Timeslot768-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { | DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID,
    t.FCS
                                                    TFCS
                                                                                                                    OPTIONAL.
    tFCI-Coding
                                                                                                                    OPTIONAL,
                                                    TFCI-Coding
    punctureLimit
                                                    PunctureLimit
                                                                                                                    OPTIONAL,
                                                    CCTrCH-TPCModifyList-RL-ReconfPrepTDD
    cCTrCH-TPCList
                                                                                                                    OPTIONAL,
    dl-DPCH-InformationAddList
                                                    DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                    OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    dl-DPCH-InformationModifyList
                                                    DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                    OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    dl-DPCH-InformationDeleteList
                                                    DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
        OPTIONAL,
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject
                                                                                            EXTENSION
                                                                                                                    DL-DPCH-LCR-InformationModify-
                                PRESENCE optional } -- Applicable to 1.28Mcps TDD only
AddList-RL-ReconfPrepTDD
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    { ID id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional}
```

```
-- This Step Size Information is the for the first RL repetition, step size information for RL repetitions 2 and on, should be defined in
MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD
    ID id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                       CRITICALITY ignore EXTENSION DL-Power
                                                                                                                 PRESENCE optional
-- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
DPCH-InformationModifyList-RL-ReconfPrepTDD
    { ID id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                       CRITICALITY ignore EXTENSION DL-Power
                                                                                                                 PRESENCE optional
-- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
DPCH-InformationModifvList-RL-ReconfPrepTDD
    { ID id-RL-ID
                   CRITICALITY ignore
                                             EXTENSION
                                                            RT<sub>1</sub>-TD
                                                                       PRESENCE optional
-- This is the RL ID for the first RL repetition
   { ID id-multipleRL-dl-DPCH-InformationModifyList
                                                    CRITICALITY reject
                                                                                          MultipleRL-DL-DPCH-InformationModifyList-RL-
                                                                           EXTENSION
ReconfPrepTDD PRESENCE optional } |
-- This DPCH Information is the for the 2nd and beyond RL repetitions,
     ID id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD CRITICALITY reject
                                                                                      EXTENSION
                                                                                                             DL-DPCH-768-InformationModify-
AddList-RL-ReconfPrepTDD
                              PRESENCE optional }, -- Applicable to 7.68Mcps TDD only first radio link
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
                                      ::= SEQUENCE {
   cCTrCH-ID
                                         CCTrCH-ID,
                                         iE-Extensions
                                                                                                                               OPTIONAL,
   . . .
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
-- Applicable to 3.84Mcps TDD only
DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
   TYPE DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
       PRESENCE mandatory }
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
   repetitionPeriod
                                         RepetitionPeriod,
   repetitionLength
                                         RepetitionLength,
   tdd-DPCHOffset
                                         TDD-DPCHOffset,
   dL-Timeslot-Information
                                         DL-Timeslot-Information,
                                         ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModifyListIEs-RL-ReconfPrepTDD
} }
```

```
DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                             TYPE DL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD
                   PRESENCE mandatory }
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod
                                                                      OPTIONAL,
    repetitionLength
                                          RepetitionLength
                                                                      OPTIONAL,
                                          TDD-DPCHOffset
    tdd-DPCHOffset
                                                                      OPTIONAL,
    dL-Timeslot-InformationAddModify-ModifyList-RL-ReconfPrepTDD
                                                                      DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
   OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL.
    . . .
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                                     EXTENSION
                                                                                                                                           DL-
Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                              PRESENCE optional } |
    { ID id-DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                                     EXTENSION
                                                                                                                                           DT<sub>1</sub>-
Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                              PRESENCE optional },
DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationModify-ModifyLtem-RL-
Reconf PrepTDD
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                           ::= SEQUENCE {
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType
                                                                              OPTIONAL.
   tFCI-Presence
                                          TFCI-Presence
                                                                              OPTIONAL,
    dL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                      DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
   OPTIONAL,
   iE-Extensions
                                          OPTIONAL,
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-
Reconf PrepTDD
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                       ::= SEOUENCE {
    dPCH-TD
                                          DPCH-ID,
    tdd-ChannelisationCode
                                          TDD-ChannelisationCode
                                                                      OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
    . . .
```

```
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfPrepTDD
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                                 ::= SEOUENCE
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                    OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
    OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
        OPTIONAL,
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power
                                                                                                                                                } |
                                                                                                                         PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
    { ID id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power
                                                                                                                         PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF DL-Code-LCR-InformationModify-ModifyItem-RL-
ReconfPrepTDD
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                             ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR
                                                                            OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { | DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    . . .
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY
                                                                                    reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR PRESENCE
optional },
    . . .
DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModify-
ModifyItem-RL-ReconfPrepTDD
DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                                 ::= SEOUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                                OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                                OPTIONAL,
    dL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            DL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD
    OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
       OPTIONAL,
```

```
DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF DL-Code-768-InformationModify-ModifyItem-RL-
Reconf PrepTDD
DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                             ::= SEQUENCE {
    dPCH-ID768
                                            DPCH-ID768.
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768
                                                                            OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { | DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD
}}
DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE DL-DPCH-InformationModify-DeleteListIE-RL-
Reconf PrepTDD
                    PRESENCE mandatory }
DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-
Reconf PrepTDD
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                                DPCH-ID,
                                                ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
    OPTIONAL,
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-InformationLCR
                                            DL-TimeslotLCR-Information,
                                            ProtocolExtensionContainer { { DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
```

```
DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationModifyListIE-RL-
ReconfPrepTDD
    --Includes the 2nd through the max number of radio link information repetitions.
MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE {
    dl-DPCH-InformationAddList
                                                                  DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                                   OPTIONAL,
   dl-DPCH-InformationModifyList
                                                                  DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                   OPTIONAL,
   dl-DPCH-InformationDeleteList
                                                                  DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                                   OPTIONAL,
   dl-DPCH-InformationAddListLCR
                                                                  DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                            OPTIONAL.
    tDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD
                                                                  TDD-TPC-DownlinkStepSize
           OPTIONAL.
    cCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                  DI - Power
                                                                                                                                   OPTIONAL,
    cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                  DL-Power
                                                                                                                                   OPTIONAL,
                                                                  RI.-ID
                                                                                                                                   OPTIONAL,
                                                                  ProtocolExtensionContainer { MultipleRL-DL-DPCH-InformationModifyListIE-RL-
    iE-Extensions
ReconfPrepTDD-ExtIEs} }
                           OPTIONAL.
MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ID id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject
                                                                                         EXTENSION
                                                                                                                DL-DPCH-768-InformationModify-
AddList-RL-ReconfPrepTDD
                               PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
    tdd-DPCHOffset
                                          TDD-DPCHOffset,
   dL-Timeslot-Information768
                                          DL-Timeslot768-Information,
   iE-Extensions
                                          ProtocolExtensionContainer {    DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
   cCTrCH-ID
                                                  CCTrCH-ID.
   iE-Extensions
                                                  OPTIONAL,
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
                                                DCH-ID,
                                                ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL.
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE
    dscH-ID
                                                DSCH-ID,
    cCTrCH-ID
                                                CCTrCH-ID
                                                                            OPTIONAL,
    -- DL CCTrCH in which the DSCH is mapped
    transportFormatSet
                                                TransportFormatSet
                                                                            OPTIONAL,
    allocationRetentionPriority
                                                AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                FrameHandlingPriority
                                                                            OPTIONAL,
    toAWS
                                                ToAWS
                                                                            OPTIONAL,
    toAWE
                                                ToAWE
                                                                            OPTIONAL,
    transportBearerRequestIndicator
                                                TransportBearerRequestIndicator,
                                                ProtocolExtensionContainer { | DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                        CRITICALITY ignore EXTENSION BindingID
                                                                                                 PRESENCE optional
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-transportlayeraddress
                                        CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                 PRESENCE optional
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlQos
                                        CRITICALITY ignore EXTENSION TnlQos
                                                                                                 PRESENCE optional
    . . .
DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD
DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dscH-TD
    iE-Extensions
                                                ProtocolExtensionContainer { | DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD
```

```
USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
                                                USCH-ID.
    transportFormatSet
                                                TransportFormatSet
                                                                            OPTIONAL.
    allocationRetentionPriority
                                                AllocationRetentionPriority OPTIONAL,
    cCTrCH-ID
                                                CCTrCH-ID
                                                                            OPTIONAL,
                                                                                         -- UL CCTrCH in which the USCH is mapped
    transportBearerRequestIndicator
                                                TransportBearerRequestIndicator,
    iE-Extensions
                                                ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL.
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                            CRITICALITY ignore
                                                                    EXTENSION BindingID
                                                                                                                     PRESENCE optional
    -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                            CRITICALITY ignore
                                                                    EXTENSION TransportLayerAddress
                                                                                                                     PRESENCE optional
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                            CRITICALITY ignore
                                                                    EXTENSION TnlOos
                                                                                                                     PRESENCE optional },
    . . .
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD
USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEOUENCE {
    uSCH-ID
    iE-Extensions
                                                ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    . . .
USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleRL-Information-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.
RL-Information-RL-ReconfPrepTDD ::= SEQUENCE
    rL-ID
                                                RL-ID,
    maxDL-Power
                                                DL-Power
                                                                    OPTIONAL,
    minDL-Power
                                                DL-Power
                                                                    OPTIONAL,
                                                ProtocolExtensionContainer { { RL-Information-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
RL-Information-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
      ID id-InitDL-Power
                                                        CRITICALITY ignore EXTENSION DL-Power
                                                                                                                                 PRESENCE optional
      ID id-RL-Specific-DCH-Info
                                                        CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                                 PRESENCE optional
     ID id-UL-Synchronisation-Parameters-LCR
                                                        CRITICALITY ignore EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
```

```
ID id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-TimeslotISCPInfoLCR
                                                                                                                            PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
     ID id-UARFCNforNt
                                                      CRITICALITY reject EXTENSION UARFON
                                                                                                                            PRESENCE optional
     -- Applicable to 1.28Mcps TDD when using multiple frequencies
     ****************
-- RADIO LINK RECONFIGURATION READY
__ **********************
RadioLinkReconfigurationReady ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                       {{RadioLinkReconfigurationReady-IEs}},
                           ProtocolExtensionContainer
                                                      {{RadioLinkReconfigurationReady-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL,
RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::=
    { ID id-CRNC-CommunicationContextID
                                                      CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                                   PRESENCE
mandatory } |
     ID id-RL-InformationResponseList-RL-ReconfReady
                                                      CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReady
                                                                                                                            PRESENCE optional } |
     ID id-CriticalityDiagnostics
                                                      CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                                   PRESENCE
optional },
RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TargetCommunicationControlPortID
                                              CRITICALITY ignore
                                                                      EXTENSION CommunicationControlPortID
    PRESENCE optional }
    { ID id-HSDSCH-FDD-Information-Response
                                              CRITICALITY ignore
                                                                      EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                                   PRESENCE
optional }|
    -- FDD only
    { ID id-HSDSCH-TDD-Information-Response
                                              CRITICALITY ignore
                                                                      EXTENSION HSDSCH-TDD-Information-Response
                                                                                                                                   PRESENCE
optional }
    -- TDD only
    { ID id-E-DCH-Information-Response
                                              CRITICALITY ignore
                                                                      EXTENSION E-DCH-Information-Response
    PRESENCE optional } |
    { ID id-MAChs-ResetIndicator
                                              CRITICALITY ignore
                                                                      EXTENSION MAChs-ResetIndicator
    PRESENCE optional } |
    { ID id-Fast-Reconfiguration-Permission
                                                                                                                                   PRESENCE
                                              CRITICALITY ignore
                                                                      EXTENSION Fast-Reconfiguration-Permission
optional }
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                         CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-
Information-Response
                     PRESENCE optional } |
     ID id-Additional-HS-Cell-Information-Response CRITICALITY ignore
                                                                      EXTENSION Additional-HS-Cell-Information-Response-List PRESENCE optional }
     ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                      CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-
               PRESENCE optional } |
ResponseLCR
    { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                      CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-
Information-ResponseLCR
                         PRESENCE optional } |
```

```
{ ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                 CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-
ResponseLCR
              PRESENCE optional } |
   { ID id-Additional-EDCH-Cell-Information-ResponseRLReconf
                                                         CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RLReconf-
List
     PRESENCE optional }
   { ID id-E-RNTI-For-FACH
                                           CRITICALITY ignore
                                                                 EXTENSION E-RNTI
       PRESENCE optional },
                                        ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-
RL-InformationResponseList-RL-ReconfReady
ReconfReady \ \ \
RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
                                               RL-ID,
   dCH-InformationResponseList-RL-ReconfReady
                                               DCH-InformationResponseList-RL-ReconfReady OPTIONAL,
   dSCH-InformationResponseList-RL-ReconfReady
                                               DSCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only
   uSCH-InformationResponseList-RL-ReconfReady
                                               USCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only
   not-Used-tFCI2-BearerInformationResponse
                                                                                      OPTIONAL,
                                               ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs} }
   iE-Extensions
   OPTIONAL,
RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-UpdatedIndicator
                                                  CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
   PRESENCE optional } |
   { ID id-E-DCH-RL-Set-ID
                                                  CRITICALITY ignore EXTENSION RL-Set-ID
              PRESENCE optional } |
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                  CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
    ID id-E-DCH-FDD-Information-Response
                                                  CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
   PRESENCE optional } |
   { ID id-HSDSCH-PreconfigurationInfo
                                                  CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
   PRESENCE optional } |
   { ID id-Non-Serving-RL-Preconfig-Info
                                                  CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
   PRESENCE optional },
   . . .
DCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    TYPE DCH-InformationResponse
                                                                                   PRESENCE mandatory
DSCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
```

```
USCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-ReconfReady }}
USCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
     ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                  PRESENCE mandatory }
    *****************
  RADIO LINK RECONFIGURATION FAILURE
__ *********************
RadioLinkReconfigurationFailure ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                    {{RadioLinkReconfigurationFailure-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}
                                                                                                              OPTIONAL,
RadioLinkReconfigurationFailure-IES NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                           CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                              PRESENCE mandatory }
     ID id-CauseLevel-RL-ReconfFailure
                                           CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure
                                                                                                              PRESENCE mandatory }
    ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                              PRESENCE optional },
RadioLinkReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-ReconfFailure ::= CHOICE {
   generalCause
                     GeneralCauseList-RL-ReconfFailure,
                     RLSpecificCauseList-RL-ReconfFailure,
   rLSpecificCause
   . . .
GeneralCauseList-RL-ReconfFailure ::= SEOUENCE {
                                            ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
   rL-ReconfigurationFailureList-RL-ReconfFailure
                                                   RL-ReconfigurationFailureList-RL-ReconfFailure
   iE-Extensions
                                                   OPTIONAL,
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-
ReconfigurationFailureItemIE-RL-ReconfFailure}}
RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
   mandatory }
RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
   cause
                                     Cause.
   iE-Extensions
                                     OPTIONAL,
   . . .
RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- RADIO LINK RECONFIGURATION COMMIT
  RadioLinkReconfigurationCommit ::= SEQUENCE
                                           {{RadioLinkReconfigurationCommit-IEs}},
   protocolIEs
                     ProtocolIE-Container
                     ProtocolExtensionContainer
                                          {{RadioLinkReconfigurationCommit-Extensions}}
   protocolExtensions
                                                                                             OPTIONAL,
   . . .
RadioLinkReconfigurationCommit-IEs NBAP-PROTOCOL-IES ::= {
        id-NodeB-CommunicationContextID
                                        CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                          PRESENCE mandatory }
                                        CRITICALITY ignore TYPE CFN
                                                                                          PRESENCE mandatory } |
        id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information
                                                                                         PRESENCE optional },
    ID
   -- FDD only
   . . .
RadioLinkReconfigurationCommit-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Fast-Reconfiguration-Mode CRITICALITY reject EXTENSION Fast-Reconfiguration-Mode PRESENCE optional }, --FDD only
  ************************
-- RADIO LINK RECONFIGURATION CANCEL
  ******************
```

```
RadioLinkReconfigurationCancel ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                   {{RadioLinkReconfigurationCancel-IEs}},
                                                  {{RadioLinkReconfigurationCancel-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                            OPTIONAL.
RadioLinkReconfigurationCancel-IES NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                               CRITICALITY ignore
                                                                    TYPE NodeB-CommunicationContextID
                                                                                                                   PRESENCE mandatory
   . . .
RadioLinkReconfigurationCancel-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK RECONFIGURATION REQUEST FDD
    *******************
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                   {{RadioLinkReconfigurationRequestFDD-IEs}},
                                                 {{RadioLinkReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                            OPTIONAL,
   . . .
RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                      CRITICALITY reject TYPE NodeB-CommunicationContextID
   PRESENCE mandatory } |
   { ID id-UL-DPCH-Information-RL-ReconfRqstFDD
                                                      CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD
   PRESENCE optional } |
   { ID id-DL-DPCH-Information-RL-ReconfRqstFDD
                                                      CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD
   PRESENCE optional } |
   { ID id-FDD-DCHs-to-Modify
                                                      CRITICALITY reject TYPE FDD-DCHs-to-Modify
   PRESENCE optional }
   { ID id-DCHs-to-Add-FDD
                                                      CRITICALITY reject TYPE DCH-FDD-Information
   PRESENCE optional } |
   { ID id-DCH-DeleteList-RL-ReconfRqstFDD
                                                      CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD
   PRESENCE optional } |
   { ID id-RL-InformationList-RL-ReconfRqstFDD
                                                      CRITICALITY reject TYPE RL-InformationList-RL-ReconfRqstFDD
   PRESENCE optional } |
   PRESENCE
optional }.
RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-SignallingBearerRequestIndicator
                                                  CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
                                                                                                                          PRESENCE
optional }|
   { ID id-HSDSCH-FDD-Information
                                                  CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                          PRESENCE
optional }|
```

```
{ ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised
    PRESENCE optional }
    { ID id-HSDSCH-MACdFlows-to-Add
                                                        CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                                       PRESENCE
optional }|
    { ID id-HSDSCH-MACdFlows-to-Delete
                                                        CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                                       PRESENCE
optional }|
    { ID id-HSDSCH-RNTI
                                                        CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                                       PRESENCE
conditional }
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
    { ID id-HSPDSCH-RL-ID
                                                        CRITICALITY reject EXTENSION RL-ID
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DPCH-Information-RL-ReconfRqstFDD
                                                        CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfRqstFDD
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DCH-FDD-Information
                                                        CRITICALITY reject EXTENSION E-DCH-FDD-Information
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DCH-FDD-Information-to-Modify
                                                        CRITICALITY reject EXTENSION E-DCH-FDD-Information-to-Modify
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DCH-MACdFlows-to-Add
                                                        CRITICALITY reject EXTENSION E-DCH-MACdFlows-Information
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DCH-MACdFlows-to-Delete
                                                        CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
                                                                                                                                       PRESENCE
optional }|
    { ID id-Serving-E-DCH-RL-ID
                                                        CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                                       PRESENCE
optional }|
    { ID id-CPC-Information
                                                        CRITICALITY reject EXTENSION CPC-Information
       PRESENCE optional } |
    { ID id-NoOfTargetCellHS-SCCH-Order
                                                        CRITICALITY ignore
                                                                                EXTENSION NoOfTargetCellHS-SCCH-Order
                                                                                                                                       PRESENCE
optional}|
    { ID id-Additional-HS-Cell-Information-RL-Reconf-Req
                                                           CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Reconf-Req
    PRESENCE optional } |
    { ID id-UE-AggregateMaximumBitRate
                                                       CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate
    PRESENCE optional }|
    { ID id-Additional-EDCH-Cell-Information-RL-Reconf-Req CRITICALITY reject EXTENSION Additional-EDCH-Cell-Information-RL-Reconf-Req
    PRESENCE optional },
Additional-HS-Cell-Information-RL-Reconf-Req ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Reconf-Req-ItemIEs
Additional-HS-Cell-Information-RL-Reconf-Reg-ItemIEs
                                                      ::=SEQUENCE{
    hSPDSCH-RL-ID
                                                    RL-ID,
    c-ID
                                                    C-ID
                                                                                                OPTIONAL,
    hS-DSCH-FDD-Secondary-Serving-Information
                                                    HS-DSCH-FDD-Secondary-Serving-Information OPTIONAL,
    hS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised
                                                                           HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised
    OPTIONAL,
                                                    HS-DSCH-Secondary-Serving-Remove
    hS-DSCH-Secondary-Serving-Remove
                                                                                                OPTIONAL,
                                   ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Reconf-Req-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Additional-HS-Cell-Information-RL-Reconf-Reg-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-RL-Reconf-Req ::=SEQUENCE{
```

```
setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency
                                                                                                     Setup-Or-ConfigurationChange-Or-Removal-
Of-EDCH-On-secondary-UL-Frequency,
   iE-Extensions
                                  ProtocolExtensionContainer { Additional-EDCH-Cell-Information-RL-Reconf-Reg-ExtIEs} } OPTIONAL,
Additional-EDCH-Cell-Information-RL-Reconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-TFCS
                                                                 OPTIONAL.
    iE-Extensions
                                                  ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs} }
   OPTIONAL,
UL-DPCH-Information-RL-ReconfRgstFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation
                                                                                                                                  PRESENCE
optional },
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-TFCS
                                                  TFCS
                                                                                        OPTIONAL,
    tFCI-SignallingMode
                                                  TFCI-SignallingMode
                                                                                        OPTIONAL,
   limitedPowerIncrease
                                                  LimitedPowerIncrease
                                                                                        OPTIONAL,
   iE-Extensions
                                                  OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRgstFDD
DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID
                                                  ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}}
RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-RL-InformationItem-RL-ReconfRqstFDD
                                                         CRITICALITY reject
                                                                                 TYPE RL-InformationItem-RL-ReconfRqstFDD
                                                                                                                                         PRESENCE
mandatory }
RL-InformationItem-RL-ReconfRgstFDD ::= SEQUENCE
    rI.-ID
                                                RL-ID.
    maxDI_-Power
                                                DI - Power
                                                                             OPTIONAL,
    minDL-Power
                                                DL-Power
                                                                             OPTIONAL,
    dl-CodeInformation
                                                FDD-DL-CodeInformation
                                                                             OPTIONAL,
    -- The IE shall be present if the Transmission Gap Pattern Sequence Information IE is included and the indicated Downlink Compressed Mode
method for at least one of the included Transmission Gap Pattern Sequence is set to "SF/2".
                                                ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL.
    . . .
RL-InformationItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-DLReferencePower
                                                CRITICALITY ignore EXTENSION DL-Power
            PRESENCE optional }
    { ID id-RL-Specific-DCH-Info
                                                CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
            PRESENCE optional } |
    { ID id-E-DCH-RL-Indication
                                                CRITICALITY reject EXTENSION E-DCH-RL-Indication
        PRESENCE optional }
    { ID id-RL-Specific-E-DCH-Info
                                                CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
       PRESENCE optional }
    { ID id-F-DPCH-SlotFormat
                                                CRITICALITY reject EXTENSION F-DPCH-SlotFormat
        PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationSetup
                                                CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup
        PRESENCE optional } |
    { ID id-Non-Serving-RL-Preconfig-Setup
                                                CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
    PRESENCE optional } |
    { ID id-Non-Serving-RL-Preconfig-Removal
                                                CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
    PRESENCE optional },
    . . .
E-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    maxSet-E-DPDCHs
                                        Max-Set-E-DPDCHs
                                                                                                                                 OPTIONAL,
    ul-PunctureLimit
                                        PunctureLimit
                                                                                                                                 OPTIONAL,
    e-TFCS-Information
                                        E-TFCS-Information
                                                                                                                                 OPTIONAL,
    e-TTI
                                        E-TTI
                                                                                                                                 OPTIONAL,
    e-DPCCH-PO
                                        E-DPCCH-PO
        OPTIONAL,
    e-RGCH-2-IndexStepThreshold
                                        E-RGCH-2-IndexStepThreshold
                                                                                                                                 OPTIONAL,
    e-RGCH-3-IndexStepThreshold
                                        E-RGCH-3-IndexStepThreshold
        OPTIONAL,
    hARO-Info-for-E-DCH
                                        HARO-Info-for-E-DCH
                                                                                                                                 OPTIONAL,
    hSDSCH-Configured-Indicator
                                        HSDSCH-Configured-Indicator
                                                                                                                                 OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
E-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MinimumReducedE-DPDCH-GainFactor
                                                    CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional },
```

```
-- RADIO LINK RECONFIGURATION REQUEST TDD
__ *******************
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                 ProtocolIE-Container
                                                       {{RadioLinkReconfigurationRequestTDD-IEs}},
                                                      {{RadioLinkReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                     OPTIONAL,
RadioLinkReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                              CRITICALITY reject TYPE NodeB-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                              CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD
    PRESENCE optional }
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                              CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
    PRESENCE optional }
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                              CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
    PRESENCE optional }
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                              CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
    PRESENCE optional }
    { ID id-TDD-DCHs-to-Modify
                                                              CRITICALITY reject TYPE TDD-DCHs-to-Modify
    PRESENCE optional } |
          id-DCHs-to-Add-TDD
                                                              CRITICALITY reject TYPE DCH-TDD-Information
    PRESENCE optional }
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD
                                                              CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstTDD
    PRESENCE optional } |
    { ID id-RL-Information-RL-ReconfRqstTDD
                                                              CRITICALITY reject TYPE RL-Information-RL-ReconfRqstTDD
    PRESENCE optional },
-- This RL-Information-RL-ReconfRqstTDD is the first RL information repetition in the RL-Information List. Repetition 2 and on, should be defined
in Multiple-RL-Information-RL-ReconfRqstTDD,
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SignallingBearerRequestIndicator
                                                      CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
                                                                                                                                    PRESENCE
optional }|
    { ID id-multiple-RL-Information-RL-ReconfRqstTDD
                                                      CRITICALITY reject EXTENSION Multiple-RL-Information-RL-ReconfRqstTDD PRESENCE optional }
--Includes the 2nd through the max number of radio link information repetitions.
    { ID id-HSDSCH-TDD-Information
                                                      CRITICALITY reject EXTENSION HSDSCH-TDD-Information
    PRESENCE optional }
    { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised
                                                                                                                                    PRESENCE
optional }|
    { ID id-HSDSCH-MACdFlows-to-Add
                                                       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
    PRESENCE optional } |
    { ID id-HSDSCH-MACdFlows-to-Delete
                                                      CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
    PRESENCE optional }
    { ID id-HSDSCH-RNTI
                                                       CRITICALITY reject EXTENSION HSDSCH-RNTI
           PRESENCE conditional } |
```

```
-- The IE shall be present if HS-PDSCH RL ID IE is present.
   { ID id-HSPDSCH-RL-ID
                                                    CRITICALITY reject EXTENSION RL-ID
           PRESENCE optional }
    { ID id-E-DCH-Information-Reconfig
                                                    CRITICALITY reject EXTENSION E-DCH-Information-Reconfig
   PRESENCE optional }
   { ID id-E-DCH-Serving-RL-ID
                                                    CRITICALITY reject EXTENSION RL-ID
           PRESENCE optional } |
   { ID id-E-DCH-768-Information-Reconfig
                                                     CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig
                                                                                                                               PRESENCE
optional }|
    { ID id-E-DCH-LCR-Information-Reconfig
                                                     CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig
                                                                                                                               PRESENCE
optional }|
   { ID id-PowerControlGAP
                                                     CRITICALITY ignore EXTENSION ControlGAP
           PRESENCE optional }
   -- Applicable to 1.28Mcps TDD only
   { ID id-CPC-InformationLCR
                                                     CRITICALITY reject EXTENSION CPC-InformationLCR
   PRESENCE optional }
   { ID id-IdleIntervalInformation
                                                     CRITICALITY ignore EXTENSION IdleIntervalInformation
   PRESENCE optional }
    { ID id-UE-Selected-MBMS-Service-Information
                                                     CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
                                                                                                                        PRESENCE optional }
    { ID id-HSSCCH-TPC-StepSize
                                                     CRITICALITY ignore EXTENSION TDD-TPC-DownlinkStepSize
   PRESENCE optional }
   { ID id-DCH-MeasurementOccasion-Information
                                                     CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
                                                                                                                               PRESENCE
optional } | { ID id-HSDSCH-RNTI-For-FACH
                                                            CRITICALITY ignore EXTENSION HSDSCH-RNTI
                  PRESENCE optional }.
UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationModifyItemIE-RL-ReconfRgstTDD}}
UL-CCTrCH-InformationModifyItemIE-RL-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory}
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                                                 CCTrCH-ID.
   t.FCS
                                                 TFCS
                                                                OPTIONAL,
   punctureLimit
                                                 PunctureLimit OPTIONAL,
   iE-Extensions
                                                 ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs} }
       OPTIONAL,
UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                             CRITICALITY reject EXTENSION UL-SIR
   { ID id-UL-SIRTarget
                                                                           PRESENCE optional }.
   -- Applicable to 1.28Mcps TDD only
UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                                    CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
       PRESENCE mandatory }
UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                 ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs} }
    iE-Extensions
       OPTIONAL,
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-
InformationModifyItemIE-RL-ReconfRgstTDD}}
DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD
                                                                CRITICALITY notify
                                                                                       TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD
    PRESENCE mandatory }
DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD ::= SEOUENCE {
   cCTrCH-ID
                                                 CCTrCH-ID.
    t.FCS
                                                 TFCS
                                                                OPTIONAL.
                                                                OPTIONAL,
   punctureLimit
                                                 PunctureLimit
    iE-Extensions
                                                 ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs} }
       OPTIONAL,
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
ReconfRastTDD
-- This DPCH LCR Information is the for the first RL repetition, DPCH LCR information for RL repetitions 2 and on, should be defined in MultipleRL-
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD.
    { ID id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRgstTDD CRITICALITY ignore EXTENSION DL-Power
                                                                                                                  PRESENCE optional
-- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
CCTrCH-InformationModifyList-RL-ReconfRgstTDD.
    { ID id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD CRITICALITY ignore EXTENSION DL-Power
                                                                                                                  PRESENCE optional
-- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
CCTrCH-InformationModifyList-RL-ReconfRgstTDD.
    { ID id-RL-ID
                                                                    CRITICALITY ignore EXTENSION RL-ID
                                                                                                                  PRESENCE optional
                                                                                                                                       } |
-- This is the RL ID for the first RL repetition.
    { ID id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRgstTDD CRITICALITY reject EXTENSION
                                                                                                             MultipleRL-DL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD PRESENCE optional },
-- This CCTrCH Information is the for the 2nd and beyond RL repetitions.
MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-CCTrCH-InformationModifyListIE-
RL-ReconfRastTDD
--Includes the 2nd through the max number of radio link information repetitions.
```

```
MultipleRL-DL-CCTrCH-InformationModifyListIE-RL-ReconfRqstTDD ::= SEQUENCE {
    dl-DPCH-LCR-InformationModifyList
                                                                    DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD OPTIONAL,
    cCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD
                                                                    DL-Power
    cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD
                                                                    DL-Power
    OPTIONAL,
    rL-ID
                                                                    RL-ID
    OPTIONAL,
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE {
    dL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
                                                                        DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
    OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { | DL-DPCH-LCR-InformationModify_ModifyList-RL-ReconfRgstTDD-ExtIEs} }
    OPTIONAL,
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfRqstTDD
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD
                                                                 ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    maxPowerLCR
                                            DL-Power
                                                        OPTIONAL,
    minPowerLCR
                                            DL-Power
                                                        OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
        OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
                                                                    CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
    PRESENCE mandatory }
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
        OPTIONAL,
```

```
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRgstTDD
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   dCH-ID
                                              DCH-ID.
                                              ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-RL-Information-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfRgstTDD
--Includes the 2nd through the max number of radio link information repetitions.
RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
   rI.-ID
                                           RL-ID.
   maxDL-Power
                                           DL-Power
                                                         OPTIONAL.
   minDL-Power
                                          DL-Power
                                                         OPTIONAL.
   iE-Extensions
                                           OPTIONAL,
RL-InformationItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
     ID id-RL-Specific-DCH-Info
                                          CRITICALITY ignore
                                                                EXTENSION
                                                                           RL-Specific-DCH-Info
                                                                                                           PRESENCE optional
   { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY ignore
                                                                EXTENSION
                                                                           UL-Synchronisation-Parameters-LCR PRESENCE optional
   -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
  -- RADIO LINK RECONFIGURATION RESPONSE
  RadioLinkReconfigurationResponse ::= SEQUENCE {
                        ProtocolIE-Container
                                                  {{RadioLinkReconfigurationResponse-IEs}},
   protocolIEs
                                                 {{RadioLinkReconfigurationResponse-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                           OPTIONAL,
RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
         id-CRNC-CommunicationContextID
                                                     CRITICALITY ignore
                                                                           TYPE
                                                                                  CRNC-CommunicationContextID
       PRESENCE
                 mandatory } |
    { ID id-RL-InformationResponseList-RL-ReconfRsp
                                                     CRITICALITY ignore
                                                                           TYPE
                                                                                  RL-InformationResponseList-RL-ReconfRsp
   PRESENCE
              optional
```

```
id-CriticalityDiagnostics
                                                         CRITICALITY ignore
                                                                                TYPE
                                                                                       CriticalityDiagnostics
           PRESENCE
                      optional
RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::=
    { ID id-TargetCommunicationControlPortID
                                             CRITICALITY ignore
                                                                    EXTENSION CommunicationControlPortID
    PRESENCE optional } |
    { ID id-HSDSCH-FDD-Information-Response
                                             CRITICALITY ignore
                                                                    EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                                 PRESENCE
optional }|
    -- FDD only
    { ID id-HSDSCH-TDD-Information-Response
                                             CRITICALITY ignore
                                                                    EXTENSION HSDSCH-TDD-Information-Response
                                                                                                                                 PRESENCE
optional }|
    -- TDD only
    { ID id-E-DCH-Information-Response
                                                                    EXTENSION E-DCH-Information-Response
                                             CRITICALITY ignore
    PRESENCE optional } |
    { ID id-MAChs-ResetIndicator
                                             CRITICALITY ignore
                                                                    EXTENSION MAChs-ResetIndicator
    PRESENCE optional }
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                        CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-
                      PRESENCE optional }
Information-Response
    { ID id-Additional-HS-Cell-Information-Response
                                                     CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-Response-List
    PRESENCE optional }
    { ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                    CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-
ResponseLCR PRESENCE optional } |
    { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                    CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-
Information-ResponseLCR PRESENCE optional } |
    { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                    CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-
ResponseLCR PRESENCE optional }
    PRESENCE optional }
    { ID id-E-RNTI-For-FACH
                                             CRITICALITY ignore
                                                                    EXTENSION E-RNTI
       PRESENCE optional },
    . . .
RL-InformationResponseList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationResponseItemIE-RL-
ReconfRsp } }
RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
     ID id-RL-InformationResponseItem-RL-ReconfRsp CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRsp
                                                                                                                  PRESENCE mandatory }
RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
                                             RL-ID,
    dCH-InformationResponseList-RL-ReconfRsp
                                             DCH-InformationResponseList-RL-ReconfRsp
       OPTIONAL,
    iE-Extensions
                                             ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} }
   OPTIONAL,
RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-UpdatedIndicator
                                                     CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
    PRESENCE optional } |
```

```
-- FDD only
    { ID id-E-DCH-RL-Set-ID
                                                     CRITICALITY ignore EXTENSION RL-Set-ID
               PRESENCE optional } |
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                    CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
    ID id-E-DCH-FDD-Information-Response
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
    PRESENCE optional }
    { ID id-HSDSCH-PreconfigurationInfo
                                                     CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo
    PRESENCE optional }
    { ID id-Non-Serving-RL-Preconfig-Info
                                                     CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info
   PRESENCE optional },
DCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfRsp }}
DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
    TYPE DCH-InformationResponse
                                                                                       PRESENCE mandatory }
-- RADIO LINK DELETION REQUEST
  *****************
RadioLinkDeletionRequest ::= SEQUENCE {
   protocolIEs
                  ProtocolIE-Container
                                                     {{RadioLinkDeletionRequest-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}
                                                                                                             OPTIONAL,
RadioLinkDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID
           id-NodeB-CommunicationContextID
                                                        CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                                PRESENCE
mandatory } |
    { ID
           id-CRNC-CommunicationContextID
                                                         CRITICALITY reject TYPE CRNC-CommunicationContextID
                                                                                                                                PRESENCE
mandatory }
   { ID
          id-RL-informationList-RL-DeletionRgst
                                                        CRITICALITY notify TYPE RL-informationList-RL-DeletionRqst
                                                                                                                         PRESENCE mandatory
},
RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-informationList-RL-DeletionRqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-informationItemIE-RL-DeletionRqst}}
RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= {
    { ID id-RL-informationItem-RL-DeletionRqst
                                                 CRITICALITY notify
                                                                           TYPE RL-informationItem-RL-DeletionRqst PRESENCE mandatory }
RL-informationItem-RL-DeletionRqst ::= SEQUENCE {
```

```
rL-ID
                                           RL-ID,
   iE-Extensions
                                           OPTIONAL.
RL-informationItem-RL-DeletionRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK DELETION RESPONSE
     RadioLinkDeletionResponse ::= SEQUENCE {
                                                  {{RadioLinkDeletionResponse-IEs}},
   protocolIEs
                       ProtocolIE-Container
                                                 {{RadioLinkDeletionResponse-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                           OPTIONAL,
RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                              CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                         PRESENCE
   mandatory } |
   { ID
         id-CriticalityDiagnostics
                                              CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                         PRESENCE
   optional
RadioLinkDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::=
-- DL POWER CONTROL REQUEST FDD
  DL-PowerControlRequest ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                  {{DL-PowerControlRequest-IEs}},
                         ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}}
   protocolExtensions
                                                                                                        OPTIONAL.
DL-PowerControlRequest-IEs NBAP-PROTOCOL-IES ::= {
                                           CRITICALITY ignore TYPE NodeB-CommunicationContextID
     ID id-NodeB-CommunicationContextID
                                                                                                           PRESENCE
                                                                                                                         mandatory } |
     ID id-PowerAdjustmentType
                                           CRITICALITY ignore TYPE PowerAdjustmentType
                                                                                                           PRESENCE mandatory } |
    ID id-DLReferencePower
                                           CRITICALITY ignore TYPE DL-Power
                                                                                                           PRESENCE conditional }
   -- This IE shall be present if the Adjustment Type IE is set to 'Common'
   { ID id-InnerLoopDLPCStatus
                                           CRITICALITY ignore TYPE InnerLoopDLPCStatus
                                                                                                           PRESENCE
                                                                                                                         optional }|
   { ID id-DLReferencePowerList-DL-PC-Rqst
                                           CRITICALITY ignore TYPE DL-ReferencePowerInformationList-DL-PC-Rqst
                                                                                                           PRESENCE conditional }
   -- This IE shall be present if the Adjustment Type IE is set to 'Individual'
   { ID id-MaxAdjustmentStep
                                                                                                           PRESENCE conditional }
                                           CRITICALITY ignore TYPE MaxAdjustmentStep
```

```
-- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
   { ID id-AdjustmentPeriod
                                              CRITICALITY ignore TYPE AdjustmentPeriod
                                                                                                                   PRESENCE conditional } |
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
   { ID id-AdjustmentRatio
                                              CRITICALITY ignore TYPE ScaledAdjustmentRatio
                                                                                                                   PRESENCE conditional },
   -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
DL-PowerControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DL-ReferencePowerInformationList-DL-PC-Rgst ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{DL-
ReferencePowerInformationItemIE-DL-PC-Rgst }}
DL-ReferencePowerInformationItemIE-DL-PC-Rgst NBAP-PROTOCOL-IES ::= {
    { ID id-DL-ReferencePowerInformationItem-DL-PC-Rgst
                                                             CRITICALITY ignore
                                                                                        TYPE DL-ReferencePowerInformationItem-DL-PC-Rgst
    PRESENCE mandatory }
DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
                                          RL-ID,
   dl-ReferencePower
                                          DL-Power,
                                          ProtocolExtensionContainer { { DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    **************
-- DL POWER TIMESLOT CONTROL REQUEST TDD
    *****************
DL-PowerTimeslotControlRequest ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                      {{DL-PowerTimeslotControlRequest-IEs}},
                                                     {{DL-PowerTimeslotControlRequest-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                   OPTIONAL,
DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID CRITICALITY ignore
                                                                 TYPE NodeB-CommunicationContextID
                                                                                                                   PRESENCE mandatory }
    { ID id-TimeslotISCPInfo
                                          CRITICALITY ignore
                                                                 TYPE DL-TimeslotISCPInfo
                                                                                                                   PRESENCE optional }.
    -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
DL-PowerTimeslotControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD
                                                                                 EXTENSION DL-TimeslotISCPInfoLCR
                                                                                                                          PRESENCE optional } |
                                                   CRITICALITY ignore
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
```

```
ID id-PrimCCPCH-RSCP-DL-PC-RgstTDD
                                                   CRITICALITY ignore
                                                                             EXTENSION PrimaryCCPCH-RSCP
                                                                                                                     PRESENCE optional
     ID id-PrimaryCCPCH-RSCP-Delta
                                                   CRITICALITY ignore
                                                                             EXTENSION PrimaryCCPCH-RSCP-Delta
                                                                                                                     PRESENCE optional
  *****************
-- DEDICATED MEASUREMENT INITIATION REQUEST
        ******************
DedicatedMeasurementInitiationRequest ::= SEQUENCE {
                         ProtocolIE-Container
                                                {{DedicatedMeasurementInitiationRequest-IEs}},
   protocolIEs
                         ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
DedicatedMeasurementInitiationRequest-IES NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                               CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                     PRESENCE mandatory }
     ID id-MeasurementID
                                                CRITICALITY reject TYPE MeasurementID
                                                                                                                     PRESENCE mandatory }
    PRESENCE mandatory }
    { ID id-DedicatedMeasurementType
                                                                                                                     PRESENCE mandatory }
                                                CRITICALITY reject TYPE DedicatedMeasurementType
    { ID id-MeasurementFilterCoefficient
                                                CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                                     PRESENCE optional }
                                                                                                                     PRESENCE mandatory }
    { ID id-ReportCharacteristics
                                                CRITICALITY reject TYPE ReportCharacteristics
    { ID id-CFNReportingIndicator
                                                CRITICALITY reject TYPE FNReportingIndicator
                                                                                                                     PRESENCE mandatory
    { ID id-CFN
                                                CRITICALITY reject TYPE CFN
                                                                                                                     PRESENCE optional }
DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-NumberOfReportedCellPortions
                                               CRITICALITY reject EXTENSION NumberOfReportedCellPortions
                                                                                                                     PRESENCE conditional
   -- The IE shall be present if the Dedicated Measurement Type IE is set to 'Best Cell Portions', FDD only.
   { ID id-MeasurementRecoveryBehavior
                                               CRITICALITY ignore EXTENSION MeasurementRecoveryBehavior
   PRESENCE optional
     ID id-AlternativeFormatReportingIndicator
                                               CRITICALITY ignore EXTENSION AlternativeFormatReportingIndicator
                                                                                                                     PRESENCE optional
     ID id-NumberOfReportedCellPortionsLCR
                                                CRITICALITY reject EXTENSION NumberOfReportedCellPortionsLCR
                                                                                                                            PRESENCE
conditional }.
   -- The IE shall be present if the Dedicated Measurement Type IE is set to 'Best Cell Portions LCR', 1.28Mcps only.
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
```

```
rL
                              RL-DM-Rqst,
   rLS
                              RL-Set-DM-Rast,
                                                     -- for FDD only
   all-RL
                              AllRL-DM-Rast.
   all-RLS
                              AllRL-Set-DM-Rgst,
                                                     -- for FDD only
    . . .
RL-DM-Rqst ::= SEQUENCE {
   rL-InformationList
                                      RL-InformationList-DM-Rqst,
                                      ProtocolExtensionContainer { { RLItem-DM-Rqst-ExtIEs } }
   iE-Extensions
                                                                                                                   OPTIONAL,
RLItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rgst ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rgst }}
RL-InformationItemIE-DM-Rgst NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
RL-InformationItem-DM-Rgst ::= SEOUENCE {
       rL-ID
                                      RL-ID,
       dPCH-ID
                                                         OPTIONAL, -- for TDD only
                                      ProtocolExtensionContainer { { RL-InformationItem-DM-Rqst-ExtIEs } }
       iE-Extensions
                                                                                                                   OPTIONAL,
RL-InformationItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-PUSCH-Info-DM-Rqst
                                  CRITICALITY reject
                                                                 EXTENSION
                                                                            PUSCH-Info-DM-Rqst
                                                                                                                   PRESENCE optional }
   -- TDD only
   { ID id-HSSICH-Info-DM-Rqst
                                                                                                                   PRESENCE optional }
                                  CRITICALITY reject
                                                                            HSSICH-Info-DM-Rqst
                                                                 EXTENSION
   -- TDD only
                                                                                                                   PRESENCE optional }
   { ID id-DPCH-ID768-DM-Rqst
                                  CRITICALITY reject
                                                                 EXTENSION
                                                                            DPCH-ID768
   -- 7.68Mcps TDD only
   { ID id-HSSICH-InfoExt-DM-Rgst CRITICALITY reject
                                                                                                                   PRESENCE optional },
                                                                 EXTENSION HSSICH-InfoExt-DM-Rgst
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
PUSCH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID
HSSICH-Info-DM-Rgst ::= SEOUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID
HSSICH-InfoExt-DM-Rqst::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF Extended-HS-SICH-ID
-- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
RL-Set-DM-Rgst ::= SEQUENCE {
   rL-Set-InformationList-DM-Rqst
                                          RL-Set-InformationList-DM-Rqst,
                                          ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL,
```

```
RL-SetItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rgst
                                       ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-InformationItem-DM-Rgst
RL-Set-InformationItem-DM-Rgst ::= SEQUENCE {
   rL-Set-ID
   iE-Extensions
                             ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllRL-DM-Rgst ::= NULL
AllRL-Set-DM-Rgst ::= NULL
__ *********************
-- DEDICATED MEASUREMENT INITIATION RESPONSE
    DedicatedMeasurementInitiationResponse ::= SEQUENCE {
                      ProtocolIE-Container
                                              {{DedicatedMeasurementInitiationResponse-IEs}},
   protocolIEs
   protocolExtensions
                      ProtocolExtensionContainer
                                             {{DedicatedMeasurementInitiationResponse-Extensions}}
                                                                                                 OPTIONAL,
DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
    ID id-CRNC-CommunicationContextID
                                          CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                 PRESENCE mandatory
    ID id-MeasurementID
                                          CRITICALITY ignore TYPE MeasurementID
                                                                                                 PRESENCE mandatory }
    PRESENCE optional } |
   { ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                 PRESENCE optional },
DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE optional },
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
   rL
                          RL-DM-Rsp,
   rLS
                         RL-Set-DM-Rsp, -- for FDD only
   all-RL
                          RL-DM-Rsp,
                          RL-Set-DM-Rsp, -- for FDD only
   all-RLS
   . . .
```

```
RL-DM-Rsp ::= SEQUENCE {
   rL-InformationList-DM-Rsp
                              RL-InformationList-DM-Rsp,
   iE-Extensions
                              OPTIONAL.
RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rsp }}
RL-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rsp ::= SEQUENCE
   rL-ID
                              RL-ID,
   dPCH-ID
                              DPCH-ID
                                          OPTIONAL,
                                                    -- for TDD only
   dedicatedMeasurementValue
                              DedicatedMeasurementValue,
                              CFN
                                          OPTIONAL,
                              iE-Extensions
                                                                                           OPTIONAL,
RL-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-PUSCH-Info-DM-Rsp
                           CRITICALITY reject
                                                                                           PRESENCE optional } |
                                                    EXTENSION
                                                            PUSCH-Info-DM-Rsp
   -- TDD only
   -- This PUSCH Information is the for the first PUSCH repetition, PUSCH information for PUSCH repetitions 2 and on, should be defined in
Multiple-PUSCH-InfoList-DM-Rsp.
   { ID id-HSSICH-Info-DM-Rsp
                                                    EXTENSION HS-SICH-ID
                           CRITICALITY reject
                                                                                           PRESENCE optional |
   -- TDD only
   PRESENCE optional }
   -- Applicable to 3.84Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple
dedicated measurement values need to be reported.
   DM-Rsp PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple
dedicated measurement values need to be reported.
   PRESENCE optional }|
   -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions.
   PRESENCE optional }|
   -- TDD only. This list of HS-SICH measurement values is used for the 2nd and beyond measurements of a RL when multiple HS-SICH measurement
values need to be reported.
    ID id-DPCH-ID768-DM-Rsp
                           CRITICALITY reject
                                                    EXTENSION DPCH-ID768
                                                                         PRESENCE optional |
                                                                                           -- 7.68Mcps TDD only
    ID id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-768-TDD-
DM-Rsp PRESENCE optional } |
   -- Applicable to 7.68Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple
dedicated measurement values need to be reported.
   {ID id-Extended-HS-SICH-ID
                           CRITICALITY reject
                                                    EXTENSION Extended-HS-SICH-ID
                                                                                                       PRESENCE
optional },
   -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
```

```
PUSCH-Info-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID
Multiple-PUSCH-InfoList-DM-Rsp ::= SEOUENCE (SIZE (1.. maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rsp
-- Includes the 2nd through the max number of PUSCH information repetitions.
Multiple-PUSCH-InfoListIE-DM-Rsp ::= SEQUENCE {
    pUSCH-ID
                                            PUSCH-ID
                                                                                                                                 OPTIONAL,
                                            DedicatedMeasurementValue
    dedicatedMeasurementValue
                                                                                                                                 OPTIONAL,
                                            ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs} }
    iE-Extensions
                                                                                                                                 OPTIONAL,
Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-
Rsp
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
    dPCH-ID
                                        DPCH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
    iE-Extensions
                                        ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs} }
    OPTIONAL,
    . . .
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsLCRPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
LCR-TDD-DM-Rsp
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp ::= SEQUENCE {
                                        DPCH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
    iE-Extensions
                                        ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs} }
    OPTIONAL,
    . . .
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfHSSICHs-1)) OF Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
    hsSICH-ID
                                        HS-SICH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
```

```
ProtocolExtensionContainer { { Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs} }
    iE-Extensions
                                                                                                                                     OPTIONAL,
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                       CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
                                                                                                                  PRESENCE optional },
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
    . . .
Multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHs768PerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
768-TDD-DM-Rsp
Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp ::= SEQUENCE {
    dPCH-ID768
                                       DPCH-ID768,
    dedicatedMeasurementValue
                                       DedicatedMeasurementValue,
                                       ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rsp ::= SEQUENCE {
    rL-Set-InformationList-DM-Rsp
                                       RL-Set-InformationList-DM-Rsp,
    iE-Extensions
                                       ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }
                                                                                                                      OPTIONAL,
RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-DM-Rsp }}
RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp
                                               CRITICALITY ignore
                                                                       TYPE RL-Set-InformationItem-DM-Rsp
                                                                                                                  PRESENCE mandatory
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID
                                   RL-Set-ID,
    dedicatedMeasurementValue
                                   DedicatedMeasurementValue,
                                                       OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rsp-ExtIES NBAP-PROTOCOL-EXTENSION ::=
__ **********************
```

```
-- DEDICATED MEASUREMENT INITIATION FAILURE
__ ********************************
DedicatedMeasurementInitiationFailure ::= SEQUENCE {
                      ProtocolIE-Container
                                             {{DedicatedMeasurementInitiationFailure-IEs}},
   protocolIEs
   protocolExtensions
                      ProtocolExtensionContainer
                                            {{DedicatedMeasurementInitiationFailure-Extensions}}
                                                                                                OPTIONAL,
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
         id-CRNC-CommunicationContextID
                                         CRITICALITY
                                                                   TYPE
                                                                          CRNC-CommunicationContextID
                                                                                                      PRESENCE
                                                      ignore
   mandatory } |
   { ID
        id-MeasurementID
                                         CRITICALITY
                                                      ignore
                                                                   TYPE
                                                                          Measurement.ID
                                                                                                            PRESENCE
   mandatory } |
   { ID
        id-Cause
                                         CRITICALITY
                                                      ignore
                                                                   TYPE
                                                                          Cause
                                                                                                            PRESENCE
   mandatory } |
        id-CriticalityDiagnostics
                                         CRITICALITY
                                                      ignore
                                                                   TYPE
                                                                          CriticalityDiagnostics
                                                                                                            PRESENCE
   optional },
   . . .
DedicatedMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    -- DEDICATED MEASUREMENT REPORT
__ *********************
DedicatedMeasurementReport ::= SEQUENCE {
                                         {{DedicatedMeasurementReport-IEs}},
   protocolIEs
                      ProtocolIE-Container
                      ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
DedicatedMeasurementReport-IES NBAP-PROTOCOL-IES ::= {
    ID id-CRNC-CommunicationContextID
                                         CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                PRESENCE
                                                                                                            mandatory
    ID id-MeasurementID
                                         CRITICALITY ignore TYPE MeasurementID
                                                                                                PRESENCE
                                                                                                            mandatory
    PRESENCE
                                                                                                            mandatorv
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE
optional
```

```
DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
                                    RL-DM-Rort.
   rLS
                                    RL-Set-DM-Rprt,
                                                         -- for FDD only
   all-RL
                                    RL-DM-Rort.
   all-RLS
                                    RL-Set-DM-Rprt,
                                                          -- for FDD only
RL-DM-Rprt ::= SEQUENCE {
   rL-InformationList-DM-Rprt
                                    RL-InformationList-DM-Rprt,
                                    iE-Extensions
                                                                                                             OPTIONAL,
RLItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rprt }}
RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rprt ::= SEQUENCE {
   rL-ID
                                RL-ID,
   dPCH-ID
                                DPCH-ID
                                           OPTIONAL,
                                                         -- for TDD only
   dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation,
                                iE-Extensions
                                                                                                             OPTIONAL,
   . . .
RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-PUSCH-Info-DM-Rort
                                CRITICALITY reject
                                                             EXTENSION PUSCH-Info-DM-Rort
                                                                                                             PRESENCE optional } |
   -- TDD only
   -- This PUSCH Information is the for the first PUSCH repetition, PUSCH information for PUSCH repetitions 2 and on, should be defined in
Multiple-PUSCH-InfoList-DM-Rprt.
   {ID id-HSSICH-Info-DM-Rprt
                                CRITICALITY reject
                                                                                                             PRESENCE optional } |
                                                             EXTENSION HS-SICH-ID
   -- TDD only
   { ID id-multiple-PUSCH-InfoList-DM-Rprt CRITICALITY ignore
                                                                                                                                 } |
                                                             EXTENSION Multiple-PUSCH-InfoList-DM-Rprt
                                                                                                             PRESENCE optional
   -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions.
   { ID id-DPCH-ID768-DM-Rprt
                                CRITICALITY reject
                                                             EXTENSION DPCH-ID768
                                                                                                             PRESENCE optional }
   -- 7.68Mcps TDD only
   { ID id-Extended-HS-SICH-ID
                                CRITICALITY ignore
                                                             EXTENSION Extended-HS-SICH-ID
                                                                                                             PRESENCE optional }.
   -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
PUSCH-Info-DM-Rprt ::= SEQUENCE (SIZE (0..maxNrOfPUSCHs)) OF PUSCH-ID
Multiple-PUSCH-InfoList-DM-Rprt ::= SEQUENCE (SIZE (1.. maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rprt
-- Includes the 2nd through the max number of PUSCH information repetitions.
```

```
Multiple-PUSCH-InfoListIE-DM-Rprt ::= SEQUENCE {
   pUSCH-ID
                                        PUSCH-ID
                                                                                                                     OPTIONAL,
   dedicatedMeasurementValue
                                        DedicatedMeasurementValue
                                                                                                                     OPTIONAL.
                                        ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs} }
   iE-Extensions
                                                                                                                     OPTIONAL,
Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rprt ::= SEQUENCE
   rL-Set-InformationList-DM-Rprt
                                    RL-Set-InformationList-DM-Rprt,
   iE-Extensions
                                    OPTIONAL,
RL-SetItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-DM-Rprt }}
RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt
                                                                                                              PRESENCE mandatory
RL-Set-InformationItem-DM-Rprt ::= SEQUENCE
                                        DedicatedMeasurementValueInformation,
   dedicatedMeasurementValueInformation
                                 ProtocolExtensionContainer { RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- DEDICATED MEASUREMENT TERMINATION REQUEST
  *****************
DedicatedMeasurementTerminationRequest ::= SEQUENCE {
                         ProtocolIE-Container
   protocolIEs
                                                    {{DedicatedMeasurementTerminationRequest-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer
                                                   {{DedicatedMeasurementTerminationRequest-Extensions}}
                                                                                                              OPTIONAL,
DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::=
   { ID
         id-NodeB-CommunicationContextID
                                               CRITICALITY
                                                              ignore
                                                                             TYPE
                                                                                    NodeB-CommunicationContextID
                                                                                                                            PRESENCE
   mandatory } |
```

```
id-MeasurementID
   { ID
                                             CRITICALITY
                                                                         TYPE
                                                                                                                      PRESENCE
                                                           ignore
                                                                                MeasurementID
   mandatory },
DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
  DEDICATED MEASUREMENT FAILURE INDICATION
     DedicatedMeasurementFailureIndication ::= SEQUENCE {
                        ProtocolIE-Container
                                                 {{DedicatedMeasurementFailureIndication-IEs}},
   protocolIEs
                                                 {{DedicatedMeasurementFailureIndication-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                         OPTIONAL,
   . . .
DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::=
          id-CRNC-CommunicationContextID
                                          CRITICALITY
                                                        ignore
                                                                  TYPE
                                                                          CRNC-CommunicationContextID
                                                                                                         PRESENCE
                                                                                                                      mandatory
     ID
          id-MeasurementID
                                          CRITICALITY
                                                        ignore
                                                                  TYPE
                                                                         MeasurementID
                                                                                                         PRESENCE
                                                                                                                      mandatory
          id-Cause
                                                        ignore
                                                                  TYPE
                                                                                                                      mandatory
     ID
                                          CRITICALITY
                                                                          Cause
                                                                                                         PRESENCE
   . . .
DedicatedMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK FAILURE INDICATION
  *****************
RadioLinkFailureIndication ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                 {{RadioLinkFailureIndication-IEs}},
                        ProtocolExtensionContainer
                                                {{RadioLinkFailureIndication-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
         id-CRNC-CommunicationContextID
                                                 CRITICALITY ignore
                                                                         TYPE CRNC-CommunicationContextID
                                                                                                                      PRESENCE
   mandatory }
         id-Reporting-Object-RL-FailureInd
                                                                         TYPE Reporting-Object-RL-FailureInd
                                                 CRITICALITY ignore
                                                                                                                PRESENCE
   mandatory },
```

```
RadioLinkFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Reporting-Object-RL-FailureInd ::= CHOICE {
   rL
                          RL-RL-FailureInd,
                          RL-Set-RL-FailureInd, --FDD only
   rL-Set
    . . . ,
   cCTrCH
                          CCTrCH-RL-FailureInd --TDD only
RL-RL-FailureInd ::= SEQUENCE {
   rL-InformationList-RL-FailureInd
                                          RL-InformationList-RL-FailureInd,
   iE-Extensions
                                          OPTIONAL,
RLItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-FailureInd}}
RL-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-FailureInd
                                                     CRITICALITY ignore
                                                                              TYPE RL-InformationItem-RL-FailureInd
   PRESENCE mandatory }
RL-InformationItem-RL-FailureInd ::= SEQUENCE {
   rL-ID
                                              RL-ID,
   cause
                                              Cause,
   iE-Extensions
                                              ProtocolExtensionContainer { { RL-InformationItem-RL-FailureInd-ExtIEs } }
                                                                                                                                  OPTIONAL,
RL-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-RL-FailureInd ::= SEQUENCE {
   rL-Set-InformationList-RL-FailureInd
                                        RL-Set-InformationList-RL-FailureInd,
   iE-Extensions
                                          ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } }
                                                                                                                   OPTIONAL,
RL-SetItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-RL-
FailureInd }}
RL-Set-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
```

```
ID id-RL-Set-InformationItem-RL-FailureInd
                                                  CRITICALITY ignore
                                                                          TYPE RL-Set-InformationItem-RL-FailureInd
                                                                                                                             PRESENCE mandatory
RL-Set-InformationItem-RL-FailureInd ::= SEQUENCE {
   rL-Set-ID
                           RL-Set-ID,
   cause
                           Cause,
   iE-Extensions
                           ProtocolExtensionContainer { RL-Set-InformationItem-RL-FailureInd-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCTrCH-RL-FailureInd ::= SEQUENCE {
                                           RL-ID,
   cCTrCH-InformationList-RL-FailureInd
                                           CCTrCH-InformationList-RL-FailureInd,
                                           ProtocolExtensionContainer { { CCTrCHItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
                                                                                                                     OPTIONAL,
CCTrCHItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CCTrCH-InformationList-RL-FailureInd ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
FailureInd}}
CCTrCH-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-CCTrCH-InformationItem-RL-FailureInd
                                                      CRITICALITY ignore
                                                                              TYPE CCTrCH-InformationItem-RL-FailureInd
   PRESENCE mandatory
CCTrCH-InformationItem-RL-FailureInd ::= SEOUENCE
   cCTrCH-ID
                                               CCTrCH-ID,
   cause
                                               Cause,
                                               ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
                                                                                                                                    OPTIONAL,
CCTrCH-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
-- RADIO LINK PREEMPTION REQUIRED INDICATION
  *****************
RadioLinkPreemptionRequiredIndication ::= SEQUENCE
   protocolIEs
                                   ProtocolIE-Container
                                                              {{RadioLinkPreemptionRequiredIndication-IEs}},
                                   ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}
   protocolExtensions
                                                                                                                                   OPTIONAL,
```

```
RadioLinkPreemptionRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID
                                       CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                               PRESENCE
mandatory } |
  PRESENCE
optional
RadioLinkPreemptionRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
PreemptRequiredInd}}
RL-InformationItemIE-RL-PreemptRequiredInd NBAP-PROTOCOL-IES ::= {
  PRESENCE
mandatory },
  . . .
RL-InformationItem-RL-PreemptRequiredInd::= SEQUENCE {
  iE-Extensions
                      ProtocolExtensionContainer { {RL-InformationItem-RL-PreemptRequiredInd-ExtIEs} } OPTIONAL,
RL-InformationItem-RL-PreemptRequiredInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- RADIO LINK RESTORE INDICATION
__ ********************
RadioLinkRestoreIndication ::= SEQUENCE {
  protocolIEs
              ProtocolIE-Container
                                        {{RadioLinkRestoreIndication-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
                                                                                     OPTIONAL,
RadioLinkRestoreIndication-IEs NBAP-PROTOCOL-IES ::=
        id-CRNC-CommunicationContextID
                                     CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                     PRESENCE
                                                                                               mandatory
        id-Reporting-Object-RL-RestoreInd
    ID
                                    CRITICALITY ignore TYPE Reporting-Object-RL-RestoreInd
                                                                                     PRESENCE
                                                                                               mandatory
```

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```
RadioLinkRestoreIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Reporting-Object-RL-RestoreInd ::= CHOICE {
                        RL-RL-RestoreInd, --TDD only
   rL-Set
                        RL-Set-RL-RestoreInd, --FDD only
   . . . ,
   cCTrCH
                        CCTrCH-RL-RestoreInd --TDD only
RL-RL-RestoreInd ::= SEQUENCE {
   rL-InformationList-RL-RestoreInd
                                      RL-InformationList-RL-RestoreInd,
   iE-Extensions
                                      OPTIONAL,
RLItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationItemIE-RL-RestoreInd}}
RL-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationItem-RL-RestoreInd
                                           CRITICALITY ignore
                                                                  TYPE RL-InformationItem-RL-RestoreInd
                                                                                                                      PRESENCE
   mandatory}
RL-InformationItem-RL-RestoreInd ::= SEQUENCE {
                                      iE-Extensions
                                                                                                               OPTIONAL,
RL-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-RL-RestoreInd ::= SEQUENCE {
   rL-Set-InformationList-RL-RestoreInd
                                      RL-Set-InformationList-RL-RestoreInd,
                                      ProtocolExtensionContainer { { RL-SetItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                         OPTIONAL,
   . . .
RL-SetItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-RL-
RestoreInd }}
RL-Set-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
   TYPE RL-Set-InformationItem-RL-RestoreInd PRESENCE mandatory
```

```
RL-Set-InformationItem-RL-RestoreInd ::= SEQUENCE {
   rL-Set-ID
                     RL-Set-ID.
   iE-Extensions
                     RL-Set-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCTrCH-RL-RestoreInd ::= SEQUENCE {
                                 RL-ID.
   cCTrCH-InformationList-RL-RestoreInd
                                 CCTrCH-InformationList-RL-RestoreInd,
   iE-Extensions
                                 ProtocolExtensionContainer { { CCTrCHItem-RL-RestoreInd-ExtIEs } }
                                                                                          OPTIONAL,
CCTrCHItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCTrCH-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
RestoreInd}}
CCTrCH-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
   mandatory }
                                                                                          PRESENCE
CCTrCH-InformationItem-RL-RestoreInd ::= SEQUENCE {
   cCTrCH-ID
   iE-Extensions
                                    OPTIONAL,
CCTrCH-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- COMPRESSED MODE COMMAND FDD
  *****************
CompressedModeCommand ::= SEQUENCE {
   protocolIEs
                    ProtocolIE-Container
                                          {{CompressedModeCommand-IEs}},
                     ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
```

```
CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                CRITICALITY ignore
                                                                       TYPE NodeB-CommunicationContextID
                                                                                                                       PRESENCE mandatory }
   { ID id-Active-Pattern-Sequence-Information
                                                CRITICALITY ignore
                                                                       TYPE Active-Pattern-Sequence-Information
                                                                                                                       PRESENCE mandatory
   . . .
CompressedModeCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- ERROR INDICATION
__ ******************
ErrorIndication ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                     {{ErrorIndication-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{ErrorIndication-Extensions}}
                                                                                      OPTIONAL.
ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                                   CRNC-CommunicationContextID
                                             CRITICALITY
                                                            ignore
                                                                           TYPE
                                                                                                                       PRESENCE
   optional } |
          id-NodeB-CommunicationContextID
                                             CRITICALITY
                                                            ignore
                                                                           TYPE
                                                                                  NodeB-CommunicationContextID
                                                                                                                       PRESENCE
   optional
   { ID
         id-Cause
                                             CRITICALITY
                                                           ignore
                                                                           TYPE
                                                                                  Cause
                                                                                                                       PRESENCE
   optional } |
         id-CriticalityDiagnostics
                                                                                  CriticalityDiagnostics
   { ID
                                            CRITICALITY
                                                           ignore
                                                                           TYPE
                                                                                                                       PRESENCE
   optional },
ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- PRIVATE MESSAGE
__ *********************
PrivateMessage ::= SEQUENCE {
                  PrivateIE-Container {{PrivateMessage-IEs}},
   privateIEs
   . . .
```

```
PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST FDD
  **********************
PhysicalSharedChannelReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                     ProtocolIE-Container
                                                 {{PhysicalSharedChannelReconfigurationRequestFDD-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestFDD-Extensions}} OPTIONAL,
PhysicalSharedChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID
                                                        CRITICALITY reject TYPE C-ID
   PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID
                                                        CRITICALITY reject TYPE ConfigurationGenerationID
   PRESENCE mandatory } |
    { ID id-SFN
                                                        CRITICALITY reject TYPE SFN
   PRESENCE optional } |
   { ID id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst
                                                                           CRITICALITY reject
                                                                                                            TYPE MaximumTransmissionPower
                  PRESENCE optional }
    { ID id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRgst CRITICALITY reject TYPE DL-ScramblingCode
   PRESENCE optional } |
    PRESENCE optional } |
    { ID id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst
                                                        CRITICALITY reject TYPE HS-SCCH-FDD-Code-Information
   PRESENCE optional },
   . . .
PhysicalSharedChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code
                                                            CRITICALITY reject EXTENSION DL-ScramblingCode
                  PRESENCE optional }
    { ID id-E-AGCH-FDD-Code-Information
                                                                CRITICALITY reject EXTENSION E-AGCH-FDD-Code-Information
                  PRESENCE optional }
    { ID id-E-RGCH-E-HICH-FDD-Code-Information
                                                                CRITICALITY reject EXTENSION E-RGCH-E-HICH-FDD-Code-Information
           PRESENCE optional } |
    {ID id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION HSDPA-And-EDCH-CellPortion-InformationList-PSCH-
ReconfRqst
              PRESENCE optional } |
    {ID id-Maximum-Target-ReceivedTotalWideBandPower
                                                                CRITICALITY reject EXTENSION Maximum-Target-ReceivedTotalWideBandPower
       PRESENCE optional } |
   {ID id-Reference-ReceivedTotalWideBandPower
                                                                CRITICALITY ignore EXTENSION Reference-ReceivedTotalWideBandPower
               PRESENCE optional }
   {ID id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio
                                                                CRITICALITY reject EXTENSION Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio
       PRESENCE optional }
    { ID id-HSDSCH-Common-System-InformationFDD
                                                                CRITICALITY reject EXTENSION HSDSCH-Common-System-InformationFDD
       PRESENCE optional } |
    { ID id-Common-MACFlows-to-DeleteFDD
                                                    CRITICALITY reject EXTENSION Common-MACFlows-to-DeleteFDD
                  PRESENCE optional }
```

```
{ ID id-HSDSCH-Paging-System-InformationFDD
                                                           CRITICALITY reject EXTENSION HSDSCH-Paging-System-InformationFDD
           PRESENCE optional }
     ID id-Paging-MACFlows-to-DeleteFDD
                                                       CRITICALITY reject EXTENSION Paging-MACFlows-to-DeleteFDD
                   PRESENCE optional }
    { ID id-Common-EDCH-System-InformationFDD
                                                           CRITICALITY reject EXTENSION Common-EDCH-System-InformationFDD
                           PRESENCE optional } |
    { ID id-Common-UL-MACFlows-to-DeleteFDD
                                                       CRITICALITY reject EXTENSION Common-MACFlows-to-DeleteFDD
                       PRESENCE optional } |
     ID id-Common-EDCH-MACdFlows-to-DeleteFDD
                                                               CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
                       PRESENCE optional }
    { ID id-Enhanced-UE-DRX-InformationFDD
                                                       CRITICALITY reject EXTENSION Enhanced-UE-DRX-InformationFDD
                       PRESENCE optional },
HSDPA-And-EDCH-CellPortion-InformationList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HSDPA-And-EDCH-CellPortion-
InformationItem-PSCH-ReconfRqst
HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst::= SEQUENCE
    cellPortionID
                                                                       CellPortionID,
    hS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst
                                                                       DL-ScramblingCode
                                                                                                                       OPTIONAL,
    hS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst
                                                                       HS-PDSCH-FDD-Code-Information
                                                                                                                       OPTIONAL,
    hS-SCCH-FDD-Code-Information-PSCH-ReconfRqst
                                                                       HS-SCCH-FDD-Code-Information
                                                                                                                       OPTIONAL,
    hS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst
                                                                       MaximumTransmissionPower
                                                                                                                       OPTIONAL,
    e-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code
                                                                       DL-ScramblingCode
                                                                                                                       OPTIONAL,
    e-AGCH-FDD-Code-Information
                                                                       E-AGCH-FDD-Code-Information
                                                                                                                       OPTIONAL,
                                                                       E-RGCH-E-HICH-FDD-Code-Information
    e-RGCH-E-HICH-FDD-Code-Information
                                                                                                                       OPTIONAL,
    iE-Extensions
                                                                       ProtocolExtensionContainer { { HSDPA-And-EDCH-CellPortion-InformationItem-
PSCH-ReconfRqst-ExtIEs } }
                           OPTIONAL,
HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
__ ********************
PhysicalSharedChannelReconfigurationRequestTDD ::= SEQUENCE {
                                                    {{PhysicalSharedChannelReconfigurationRequestTDD-IEs}},
    protocolIEs
                       ProtocolIE-Container
    protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestTDD-Extensions}}
PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                   CRITICALITY reject TYPE C-ID
                                                                                                                       PRESENCE mandatory } |
                                                                                                                       PRESENCE optional
     ID id-SFN
                                                   CRITICALITY reject TYPE SFN
                                                                                                                       PRESENCE optional
     ID id-PDSCHSets-AddList-PSCH-ReconfRqst
                                                   CRITICALITY reject TYPE PDSCHSets-AddList-PSCH-ReconfRqst
     ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst
                                                   CRITICALITY reject TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst
                                                                                                                       PRESENCE optional
     ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst
                                                                                                                       PRESENCE optional }
                                                   CRITICALITY reject TYPE PDSCHSets-DeleteList-PSCH-ReconfRqst
```

```
ID id-PUSCHSets-AddList-PSCH-ReconfRqst
                                                    CRITICALITY reject TYPE PUSCHSets-AddList-PSCH-ReconfRqst
                                                                                                                        PRESENCE optional }
     ID id-PUSCHSets-ModifyList-PSCH-ReconfRqst
                                                    CRITICALITY reject TYPE PUSCHSets-ModifyList-PSCH-ReconfRqst
                                                                                                                        PRESENCE optional }
     ID id-PUSCHSets-DeleteList-PSCH-ReconfRast
                                                    CRITICALITY reject TYPE PUSCHSets-DeleteList-PSCH-ReconfRqst
                                                                                                                        PRESENCE optional }.
PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
                                                                CRITICALITY reject EXTENSION HS-PDSCH-TDD-Information-PSCH-ReconfRqst
     ID id-HS-PDSCH-TDD-Information-PSCH-ReconfRgst
    PRESENCE optional }
    { ID id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional }
    { ID id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRgst
                                                                CRITICALITY reject EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional }
{ ID id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
                                                            CRITICALITY reject EXTENSION Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRgst
    PRESENCE optional } |
     ID id-ConfigurationGenerationID
                                                                CRITICALITY reject EXTENSION ConfigurationGenerationID
                                                                                                                               PRESENCE optional } |
     ID id-E-PUCH-Information-PSCH-ReconfRgst
                                                                CRITICALITY reject EXTENSION E-PUCH-Information-PSCH-ReconfRqst
    PRESENCE optional } |
    { ID id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRgst
                                                                CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRast
    PRESENCE optional } |
    { ID id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional }
    { ID id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional }
    { ID id-E-HICH-Information-PSCH-ReconfRgst
                                                                CRITICALITY reject EXTENSION E-HICH-Information-PSCH-ReconfRgst
                                                                                                                                       PRESENCE
optional }|
     ID id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells
                                                                        CRITICALITY reject EXTENSION Maximum-Generated-
ReceivedTotalWideBandPowerInOtherCells PRESENCE optional } | -- Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-E-PUCH-Information-768-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION E-PUCH-Information-768-PSCH-ReconfRgst
    PRESENCE optional }
    { ID id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRgst
                                                                CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRast
    PRESENCE optional } |
    { ID id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst
    PRESENCE optional }
    { ID id-E-HICH-Information-768-PSCH-ReconfRast
                                                                CRITICALITY reject EXTENSION E-HICH-Information-768-PSCH-ReconfRost
    PRESENCE optional }
    { ID id-E-PUCH-Information-LCR-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION E-PUCH-Information-LCR-PSCH-ReconfRqst
    PRESENCE optional }
    { ID id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRgst
                                                                CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast
    PRESENCE optional } |
    { ID id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst
    PRESENCE optional } |
    { ID id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst
    PRESENCE optional } |
    { ID id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRast
                                                                CRITICALITY reject EXTENSION Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRast
    PRESENCE optional }
    { ID id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRast
                                                                CRITICALITY reject EXTENSION Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRast
    PRESENCE optional }
    { ID id-SYNC-UL-Partition-LCR
                                                                CRITICALITY reject EXTENSION SYNC-UL-Partition-LCR
                                                                                                                                       PRESENCE
optional }|
     -- Applicable to 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-Maximum-Target-ReceivedTotalWideBandPower-LCR
                                                               CRITICALITY reject EXTENSION Maximum-Target-ReceivedTotalWideBandPower-LCR
    PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only.
```

```
{ ID id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst
                                                                  CRITICALITY reject EXTENSION Delete-From-HS-SCCH-Resource-PoolExt-PSCH-
ReconfRqst PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
    { ID id-HSDSCH-Common-System-InformationLCR
                                                              CRITICALITY reject EXTENSION HSDSCH-Common-System-InformationLCR
                                                                                                                                    PRESENCE
optional }|
    { ID id-Common-MACFlows-to-DeleteLCR
                                                              CRITICALITY reject EXTENSION Common-MACFlows-to-DeleteLCR
                                                                                                                                    PRESENCE
optional }|
    { ID id-HSDSCH-Paging-System-InformationLCR
                                                              CRITICALITY reject EXTENSION HSDSCH-Paging-System-InformationLCR
                                                                                                                                    PRESENCE
optional }|
    { ID id-Paging-MACFlows-to-DeleteLCR
                                                              CRITICALITY reject EXTENSION Paging-MACFlows-to-DeleteLCR
                                                                                                                                    PRESENCE
optional }|
    { ID id-Common-EDCH-System-InformationLCR
                                                              CRITICALITY reject EXTENSION Common-EDCH-System-InformationLCR
                                                                                                                                    PRESENCE
optional }|
    { ID id-Common-UL-MACFlows-to-DeleteLCR
                                                              CRITICALITY reject EXTENSION Common-MACFlows-to-DeleteLCR
                                                                                                                                    PRESENCE
optional }|
    { ID id-Common-EDCH-MACdFlows-to-DeleteLCR
                                                              CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-DeleteLCR
                                                                                                                                    PRESENCE
optional }
    { ID id-Enhanced-UE-DRX-InformationLCR
                                                              CRITICALITY reject EXTENSION Enhanced-UE-DRX-InformationLCR
                                                                                                                                    PRESENCE
optional }
    { ID id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                                                      CRITICALITY reject
                                                                                                              EXTENSION Add-To-Non-HS-SCCH-
Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                      PRESENCE optional }
    { ID id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                                                      CRITICALITY reject
                                                                                                              EXTENSION Modify-Non-HS-SCCH-
Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                      PRESENCE optional } |
    { ID id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst
                                                                                              CRITICALITY reject
                                                                                                                     EXTENSION Delete-From-Non-
HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                              PRESENCE optional }
   { ID id-PowerControlGAP-For-CellFACHLCR
                                                              CRITICALITY ignore EXTENSION ControlGAP
       PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-Max-RTWP-perUARFCN-Information-LCR-PSCH-Reconfigst CRITICALITY ignore EXTENSION Max-RTWP-perUARFCN-Information-LCR-PSCH-Reconfigst
       PRESENCE optional }
    { ID id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst-Ext CRITICALITY reject EXTENSION Delete-From-Non-HS-SCCH-
Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext
                                                         PRESENCE optional } |
     ID id-Out-of-Sychronization-Window
                                                              CRITICALITY reject EXTENSION Out-of-Sychronization-Window
                                                                                                                            PRESENCE optional } |
     ID id-Treset-Usage-Indicator
                                                              CRITICALITY ignore EXTENSION NULL
               PRESENCE optional }.
PDSCHSets-AddList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRgst
PDSCHSets-AddItem-PSCH-ReconfRqst
                                   ::= SEQUENCE {
   pDSCHSet-ID
                                               PDSCHSet-ID,
                                               PDSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
                                                                                                                 -- Mandatory for 3.84Mcps TDD.
    pDSCH-InformationList
Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
   iE-Extensions
                                               OPTIONAL,
PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRgst
                                                      CRITICALITY reject
                                                                              EXTENSION PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
                   optional} | -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
       PRESENCE
    {ID id-PDSCH-AddInformation-768-PSCH-ReconfRqst
                                                      CRITICALITY reject
                                                                              EXTENSION PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst
                   optional}, -- Mandatory for 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    . . .
```

```
PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
PDSCH-Information-AddListIEs-PSCH-ReconfRqst
                                                NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject
                                                                                TYPE
                                                                                         PDSCH-Information-AddItem-PSCH-ReconfRqst
    PRESENCE
               mandatory}
PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-PSCH-ReconfRqst
                                                                DL-Timeslot-InformationAddList-PSCH-ReconfRgst,
    iE-Extensions
                                            ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                        OPTIONAL,
    . . .
PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst
DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
                                            TFCI-Presence,
    tFCI-Presence
                                                            DL-Code-InformationAddList-PSCH-ReconfRqst,
    dL-Code-InformationAddList-PSCH-ReconfRqst
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst
DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRgst-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL.
DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
```

```
repetitionLength
                                            RepetitionLength,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRast
                                                                     DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRgst,
    iE-Extensions
                                                ProtocolExtensionContainer { { PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL.
    . . .
PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                CRITICALITY reject
                                                        EXTENSION TSTD-Indicator
{ID id-Tstd-indicator
                                                                                         PRESENCE
                                                                                                                     optional
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst
DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRgst ::= SEOUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
                                            TFCI-Presence,
    tFCI-Presence
    dL-Code-InformationAddList-LCR-PSCH-ReconfRqst
                                                                DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-LCR-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRgst
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
   iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRgst-LCR
                                                       CRITICALITY reject
                                                                                 EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
                                                                                                                                         PRESENCE
optional},
PDSCH-AddInformation-768-AddItem-PSCH-ReconfRgst ::= SEOUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-768-PSCH-ReconfRgst
                                                                     DL-Timeslot-InformationAddList-768-PSCH-ReconfRqst,
                                                ProtocolExtensionContainer { {PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
```

```
PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst
DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
   timeSlot
                                         TimeSlot,
                                         MidambleShiftAndBurstType768,
   midambleShiftAndBurstType768
   tFCI-Presence
                                         TFCI-Presence,
   dL-Code-InformationAddList-768-PSCH-ReconfRgst
                                                             DL-Code-InformationAddList-768-PSCH-ReconfRgst,
   iE-Extensions
                                          OPTIONAL,
DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-768-PSCH-ReconfRqst
DL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
   pDSCH-ID768
                                          PDSCH-ID768,
   tdd-ChannelisationCode768
                                         TDD-ChannelisationCode768,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs} }
   OPTIONAL,
DL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst
PDSCHSets-ModifyItem-PSCH-ReconfRqst
                                       ::= SEQUENCE {
   pDSCHSet-ID
                                             PDSCHSet-ID,
   pDSCH-InformationList
                                             PDSCH-Information-ModifyList-PSCH-ReconfRqst,
                                             ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                                 OPTIONAL,
PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst
           PRESENCE optional, -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}
PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
```

```
{ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst
                                                            CRITICALITY reject TYPE PDSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE
               optional}|
    {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRgst
                                                            CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRgst
        PRESENCE
                   optional}
PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE
    repetitionPeriod
                                                        RepetitionPeriod
                                                                                                                         OPTIONAL,
    repetitionLength
                                                        RepetitionLength
                                                                                                                         OPTIONAL,
    tdd-PhysicalChannelOffset
                                                        TDD-PhysicalChannelOffset
                                                                                                                         OPTIONAL,
    dL-Timeslot-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-InformationModifyList-PSCH-ReconfRqst
                                                                                                                         OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst
DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE
    timeSlot
                                                    TimeSlot,
   midambleShiftAndBurstType
                                                    MidambleShiftAndBurstType
                                                                                                                         OPTIONAL,
                                                    TFCI-Presence
    t.FCI-Presence
                                                                                                                         OPTIONAL,
    dL-Code-InformationModifyList-PSCH-ReconfRqst
                                                                DL-Code-InformationModifyList-PSCH-ReconfRqst
                                                                                                                         OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst
DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { | DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                                RepetitionPeriod
                                                                                                                                 OPTIONAL,
    repetitionLength
                                                                RepetitionLength
                                                                                                                                 OPTIONAL,
    tdd-PhysicalChannelOffset
                                                                TDD-PhysicalChannelOffset
                                                                                                                                 OPTIONAL,
```

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```
dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst
    iE-Extensions
                                                ProtocolExtensionContainer { {PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRgst-ExtIEs} }
       OPTIONAL.
PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModifyItem-PSCH-
ReconfRqst
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR
                                                             TimeSlotLCR.
    midambleShiftLCR
                                                            MidambleShiftLCR
                                                                                                                          OPTIONAL,
    tFCI-Presence
                                                            TFCI-Presence
                                                                                                                          OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRgst
                                                            DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                                                                          OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-LCR-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst ::= SEQUENCE
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    iE-Extensions
                                            ProtocolExtensionContainer { | DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtlEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRgst-LCR
                                                       CRITICALITY reject
                                                                                 EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
                                                                                                                                         PRESENCE
optional },
    . . .
PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRast ::= SEQUENCE {
    repetitionPeriod
                                                                RepetitionPeriod
                                                                                                                                 OPTIONAL,
    repetitionLength
                                                                RepetitionLength
                                                                                                                                 OPTIONAL,
    tdd-PhysicalChannelOffset
                                                                TDD-PhysicalChannelOffset
                                                                                                                                 OPTIONAL,
    dL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst
                                                                DL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst
                                                                                                                                 OPTIONAL,
                                                ProtocolExtensionContainer { {PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
       OPTIONAL,
```

```
PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-768-InformationModifyList-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModifyItem-PSCH-
ReconfRast
DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot
                                                            TimeSlot,
    midambleShiftAndBurstType768
                                                            MidambleShiftAndBurstType768
           OPTIONAL,
    tFCI-Presence
                                                            TFCI-Presence
            OPTIONAL,
    dL-Code-768-InformationModifyList-PSCH-ReconfRgst
                                                            DL-Code-768-InformationModifyList-PSCH-ReconfRgst
       OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-768-InformationModifyItem-PSCH-ReconfRqst
DL-Code-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID768
                                            PDSCH-ID768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
                                            ProtocolExtensionContainer { DL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
DL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst
                                         ::= SEQUENCE {
PDSCHSets-DeleteItem-PSCH-ReconfRqst
    pDSCHSet-ID
                                                PDSCHSet-ID,
                                                ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } 
    iE-Extensions
                                                                                                                                        OPTIONAL,
PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst
PUSCHSets-AddItem-PSCH-ReconfRqst
                                    ::= SEQUENCE {
    pUSCHSet-ID
                                                PUSCHSet-ID,
```

```
pUSCH-InformationList
                                                PUSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
    iE-Extensions
                                                ProtocolExtensionContainer { { PUSCHSets-AddItem-PSCH-ReconfRast-ExtIEs } }
                                                                                                                                        OPTIONAL.
PUSCHSets-Additem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRast
                                                      CRITICALITY reject
                                                                                EXTENSION PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRgst
       PRESENCE
                    optional \ -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    { ID id-PUSCH-AddInformation-768-PSCH-ReconfRqst
                                                      CRITICALITY reject
                                                                                EXTENSION PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst
       PRESENCE optional }, -- Mandatory for 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    . . .
PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}
PUSCH-Information-AddListIEs-PSCH-ReconfRgst NBAP-PROTOCOL-IES ::= {
    { ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-AddItem-PSCH-ReconfRqst
                                                                                                                                        PRESENCE
mandatory }
PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                    RepetitionPeriod,
    repetitionLength
                                                    RepetitionLength,
    tdd-PhysicalChannelOffset
                                                    TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRgst UL-Timeslot-InformationAddList-PSCH-ReconfRgst,
                                                    ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-PSCH-ReconfRgst ::= SEQUENCE {
    timeSlot
                                                TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType,
    tFCI-Presence
                                                TFCI-Presence,
    uL-Code-InformationAddList-PSCH-ReconfRqst UL-Code-InformationAddList-PSCH-ReconfRqst,
                                                ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst
UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
```

```
pUSCH-ID
                                          PUSCH-ID,
    tdd-ChannelisationCode
                                          TDD-ChannelisationCode.
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRgst-ExtIEs} }
                                                                                                                                    OPTIONAL.
UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                      RepetitionPeriod,
    repetitionLength
                                                      RepetitionLength,
    tdd-PhysicalChannelOffset
                                                      TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRgst UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRgst,
                                              ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRgst ::= SEOUENCE {
   timeSlotLCR
                                                  TimeSlotLCR,
   midambleShiftLCR
                                                  MidambleShiftLCR,
   tFCI-Presence
                                                  TFCI-Presence,
   uL-Code-InformationAddList-LCR-PSCH-ReconfRqst UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
                                          ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   pUSCH-ID
                                          PUSCH-ID,
   tdd-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR.
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR
                                                                                                                                    PRESENCE
optional},
    . . .
```

```
PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                        RepetitionPeriod,
    repetitionLength
                                                         RepetitionLength,
                                                        TDD-PhysicalChannelOffset,
    tdd-PhysicalChannelOffset
    uL-Timeslot-InformationAddList-768-PSCH-ReconfRqst UL-Timeslot-InformationAddList-768-PSCH-ReconfRqst,
    iE-Extensions
                                                ProtocolExtensionContainer { {PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-768-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-768-PSCH-ReconfRgst
UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot
                                                    TimeSlot,
    midambleShiftAndBurstType768
                                                    MidambleShiftAndBurstType768,
    tFCI-Presence
                                                    TFCI-Presence,
    uL-Code-InformationAddList-768-PSCH-ReconfRqst UL-Code-InformationAddList-768-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-768-PSCH-ReconfRqst
UL-Code-InformationAddItem-768-PSCH-ReconfRgst ::= SEOUENCE {
    pUSCH-ID
                                            PUSCH-ID,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
                                            ProtocolExtensionContainer { { UL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
UL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst
PUSCHSets-ModifyItem-PSCH-ReconfRqst
                                         ::= SEQUENCE {
    pUSCHSet-ID
                                                PUSCHSet-ID,
    pUSCH-InformationList
                                                PUSCH-Information-ModifyList-PSCH-ReconfRqst,
   iE-Extensions
                                                ProtocolExtensionContainer { {PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                         OPTIONAL,
```

```
PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject
                                                                                EXTENSION PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRgst
                       optional \, -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
PUSCH-Information-ModifyList-PSCH-ReconfRgst ::= ProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRgst }}
PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject
                                                                                    TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE
               optional}|
    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRgst
                                                            CRITICALITY reject
                                                                                    TYPE PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
            PRESENCE
                        optional}
PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE
    repetitionPeriod
                                                        RepetitionPeriod
                                                                                                                    OPTIONAL,
    repetitionLength
                                                        RepetitionLength
                                                                                                                    OPTIONAL,
                                                        TDD-PhysicalChannelOffset
    tdd-PhysicalChannelOffset
                                                                                            OPTIONAL.
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-InformationModifyList-PSCH-ReconfRqst
                                                                                                                         OPTIONAL.
                                                ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRgst
UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot
                                                    TimeSlot,
    midambleShiftAndBurstTvpe
                                                    MidambleShiftAndBurstTvpe
                                                                                                                     OPTIONAL,
    tFCI-Presence
                                                    TFCI-Presence
                                                                                                                    OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst
                                                                                                                         OPTIONAL,
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst
UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID
                                            PUSCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRgst-ExtIEs} }
    OPTIONAL,
    . . .
```

```
UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   repetitionPeriod
                                                        RepetitionPeriod
                                                                                                           OPTIONAL,
   repetitionLength
                                                       RepetitionLength
                                                                                                           OPTIONAL,
   tdd-PhysicalChannelOffset
                                                       TDD-PhysicalChannelOffset
                                                                                                           OPTIONAL,
   uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
                                            ProtocolExtensionContainer { {PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRgst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModifyItem-PSCH-
ReconfRqst
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   timeSlotLCR
                                                    TimeSlotLCR,
   midambleShiftLCR
                                                    MidambleShiftLCR
                                                                                                           OPTIONAL,
                                                    TFCI-Presence
   tFCI-Presence
                                                                                                           OPTIONAL,
   uL-Code-LCR-InformationModifyList-PSCH-ReconfRqst UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                                                           OPTIONAL,
                                        ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-LCR-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1...maxNrOfPUSCHs)) OF UL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE
   pUSCH-ID
                                        PUSCH-ID,
   tdd-ChannelisationCodeLCR
                                        TDD-ChannelisationCodeLCR,
   iE-Extensions
                                        OPTIONAL,
   . . .
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR
                                                                                                                              PRESENCE
optional },
PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
```

```
repetitionPeriod
                                                          RepetitionPeriod
                                                                                                                OPTIONAL,
    repetitionLength
                                                          RepetitionLength
                                                                                                                OPTIONAL.
    tdd-PhysicalChannelOffset
                                                          TDD-PhysicalChannelOffset
                                                                                                                OPTIONAL.
   uL-Timeslot-InformationModifyList-768-PSCH-ReconfRgst UL-Timeslot-768-InformationModifyList-PSCH-ReconfRgst OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer { {PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
    . . .
PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-768-InformationModifyItem-PSCH-
ReconfRast
UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
                                                      TimeSlot,
   midambleShiftAndBurstType768
                                                      MidambleShiftAndBurstType768
   OPTIONAL,
   tFCI-Presence
                                                      TFCT-Presence
                       OPTIONAL,
   uL-Code-768-InformationModifyList-PSCH-ReconfRqst UL-Code-768-InformationModifyList-PSCH-ReconfRqst
                                                                                                                OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRast-ExtIEs} }
   OPTIONAL,
    . . .
UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-768-InformationModifyItem-PSCH-ReconfRqst
UL-Code-768-InformationModifyItem-PSCH-ReconfRgst ::= SEOUENCE {
   pUSCH-ID
                                          PUSCH-ID,
   tdd-ChannelisationCode768
                                          TDD-ChannelisationCode768,
                                          ProtocolExtensionContainer { { UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst
PUSCHSets-DeleteItem-PSCH-ReconfRqst
                                       ::= SEQUENCE {
   pUSCHSet-ID
   iE-Extensions
                                              OPTIONAL,
```

```
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-PDSCH-TDD-Information-PSCH-ReconfRgst ::= SEQUENCE {
    dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst
                                                                        DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst
   OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst
                                                                        DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRast
                                                                                                                                       OPTIONAL,
    -- This HS-PDSCH Timeslot Information is for the first Frequency repetition, HS-PDSCH Timeslot information for Frequency repetitions 2 and on,
should be defined in MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst
                                                                                                CRITICALITY reject
                                                                                                                        EXTENSION DL-HS-PDSCH-
                                                                optional } | -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
Timeslot-Information-768-PSCH-ReconfRqst
                                                    PRESENCE
   { ID id-UARFCNforNt
                                                                                                CRITICALITY ignore
                                                                                                                        EXTENSION UARFON
                                                                    PRESENCE optional }
    -- This is the UARFCN for the first Frequency repetition. Mandatory for 1.28Mcps TDD when using multiple frequencies.
    { ID id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                                                CRITICALITY reject
                                                                                                                        EXTENSION MultipleFreq-DL-
HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                       PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies, This Information is for the 2nd and beyond Frequency repetition
DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRgst
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRgst::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
    dl-HS-PDSCH-Codelist-PSCH-ReconfRqst
                                            DL-HS-PDSCH-Codelist-PSCH-ReconfRqst,
    maxHSDSCH-HSSCCH-Power
                                            MaximumTransmissionPower
                                                                                    OPTIONAL,
                                            ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
    OPTIONAL,
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Codelist-PSCH-ReconfRast ::= SEOUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode
DL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-
ReconfRast
DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst::= SEQUENCE {
    timeSlot
                                                TimeSlot,
    midambleShiftAndBurstType768
                                                MidambleShiftAndBurstType768,
    dl-HS-PDSCH-Codelist-768-PSCH-ReconfRqst
                                               DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst,
```

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maxHSDSCH-HSSCCH-Power
                                          MaximumTransmissionPower
                                                                                 OPTIONAL,
   iE-Extensions
                                      ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL.
DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs768)) OF TDD-ChannelisationCode768
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container{
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRgst}}
   -- Includes the 2nd through the max number of frequency repetitions.
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRgst NBAP-PROTOCOL-IES ::= {
   TYPE MultipleFreq-DL-HS-PDSCH-
Timeslot-Information-LCRItem-PSCH-ReconfRgst PRESENCE optional }
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst ::= SEQUENCE
   dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                    DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                                                     OPTIONAL,
   uARFCN
   iE-Extensions
                                                    PSCH-ReconfRqst-ExtIEs } }
                            OPTIONAL,
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
   hS-SCCH-Information-PSCH-ReconfRgst
                                      HS-SCCH-Information-PSCH-ReconfRgst
                                                                             OPTIONAL,
   hs-scch-Information-LCR-Psch-ReconfRqst Hs-scch-Information-LCR-Psch-ReconfRqst
                                                                             OPTIONAL,
   iE-Extensions
                                      ProtocolExtensionContainer { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-hS-SCCH-Information-768-PSCH-ReconfRqst CRITICALITY reject
                                                                  EXTENSION HS-SCCH-Information-768-PSCH-ReconfRqst
   PRESENCE optional } |
   -- 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
   PRESENCE optional }.
   -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
HS-SCCH-Information-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRqst
HS-SCCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
```

```
hs-sccH-ID
                                           HS-SCCH-ID,
   timeSlot
                                           TimeSlot.
   midambleShiftAndBurstType
                                           MidambleShiftAndBurstType,
   tdd-ChannelisationCode
                                           TDD-ChannelisationCode,
   hS-SCCH-MaxPower
                                           DL-Power.
   hS-SICH-Information
                                           HS-SICH-Information-PSCH-ReconfRgst,
                                           ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                                    OPTIONAL.
HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-Information-PSCH-ReconfRqst ::= SEQUENCE
   hsSICH-ID
                                           HS-SICH-ID,
   timeSlot
                                           TimeSlot,
   midambleShiftAndBurstType
                                           MidambleShiftAndBurstType,
   tdd-ChannelisationCode
                                           TDD-ChannelisationCode,
   iE-Extensions
                                           ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRgst-ExtIEs} }
                                                                                                                                    OPTIONAL,
    . . .
HS-SICH-Information-PSCH-ReconfRost-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-Information-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRgst
HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   hS-SCCH-ID
                                           HS-SCCH-ID,
   timeSlotLCR
                                           TimeSlotLCR,
   midambleShiftLCR
                                           MidambleShiftLCR,
   first-TDD-ChannelisationCode
                                           TDD-ChannelisationCode,
    second-TDD-ChannelisationCode
                                           TDD-ChannelisationCode,
   hS-SCCH-MaxPower
                                           DL-Power,
   hS-SICH-Information-LCR
                                           HS-SICH-Information-LCR-PSCH-ReconfRqst,
                                           ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Extended-HS-SCCH-ID
                                                                                                                 PRESENCE optional } |
                                                    CRITICALITY ignore
                                                                          EXTENSION Extended-HS-SCCH-ID
   -- used if the HS-SCCH identity has a value larger than 31
   { ID id-UARFCNforNt
                                                   CRITICALITY ignore
                                                                          EXTENSION UARFON
                                                                                                PRESENCE optional } |
   -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    EXTENSION HSSICH-ReferenceSignal-InformationLCR
                                                                                                                                     PRESENCE
optional},
    . . .
HS-SICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   hsSICH-ID
                                           HS-SICH-ID,
```

```
timeSlotLCR
                                            TimeSlotLCR.
    midambleShiftLCR
                                            MidambleShiftLCR.
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode.
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRgst-ExtIEs} }
                                                                                                                                        OPTIONAL,
HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                        CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
                                                                                                                     PRESENCE optional },
    -- used if the HS-SICH identity has a value larger than 31
HS-SCCH-Information-768-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-768-PSCH-ReconfRgst
HS-SCCH-InformationItem-768-PSCH-ReconfRgst ::= SEQUENCE {
   hS-SCCH-ID
                                            HS-SCCH-ID,
    timeSlot
                                            TimeSlot,
                                            MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    hS-SCCH-MaxPower
                                            DI-Power.
   hS-SICH-Information-768
                                            HS-SICH-Information-768-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { HS-SCCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
HS-SCCH-InformationItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
   hsSICH-ID
                                            HS-SICH-ID,
    timeSlot
                                            TimeSlot,
                                            MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-Information-768-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                        OPTIONAL,
HS-SICH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-InformationExt-LCR-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRgst
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRast::= SEOUENCE {
    hS-SCCH-InformationModify-PSCH-ReconfRqst
                                                    HS-SCCH-InformationModify-PSCH-ReconfRqst
                                                                                                                     OPTIONAL,
   hs-scch-InformationModify-Lcr-psch-reconfrqst Hs-scch-InformationModify-Lcr-psch-reconfrqst
                                                                                                                     OPTIONAL,
                                                    ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
```

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Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-hS-SCCH-InformationModify-768-PSCH-ReconfRgst
                                                            CRITICALITY reject EXTENSION HS-SCCH-InformationModify-768-PSCH-ReconfRqst
    PRESENCE optional } |
    -- 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst
                                             ::= SEQUENCE {
   hs-sccH-ID
                                         HS-SCCH-ID.
   timeSlot
                                         TimeSlot.
                                                                                   OPTIONAL.
   midambleShiftAndBurstType
                                         MidambleShiftAndBurstType
                                                                                   OPTIONAL.
    tdd-ChannelisationCode
                                         TDD-ChannelisationCode
                                                                                   OPTIONAL,
   hS-SCCH-MaxPower
                                         DL-Power
                                                                                   OPTIONAL,
   hS-SICH-Information
                                         HS-SICH-InformationModify-PSCH-ReconfRgst
                                                                                   OPTIONAL,
   iE-Extensions
                                         ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-InformationModify-PSCH-ReconfRgst
                                          ::= SEQUENCE
   hsSICH-ID
                                         HS-SICH-ID,
   timeSlot
                                         TimeSlot
                                                                    OPTIONAL,
   midambleShiftAndBurstType
                                         MidambleShiftAndBurstType
                                                                    OPTIONAL,
    tdd-ChannelisationCode
                                         TDD-ChannelisationCode
                                                                    OPTIONAL,
   iE-Extensions
                                         ProtocolExtensionContainer { { HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                OPTIONAL,
    . . .
HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-InformationModify-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst
HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst
                                                  ::= SEQUENCE
   hs-sccH-ID
                                         HS-SCCH-ID,
   timeSlotLCR
                                         TimeSlotLCR
                                                                                       OPTIONAL.
   midambleShiftLCR
                                         MidambleShiftLCR
                                                                                       OPTIONAL.
                                         TDD-ChannelisationCode
    first-TDD-ChannelisationCode
                                                                                       OPTIONAL.
    second-TDD-ChannelisationCode
                                         TDD-ChannelisationCode
                                                                                       OPTIONAL.
   hS-SCCH-MaxPower
                                         DL-Power
                                                                                       OPTIONAL,
   hS-SICH-Information-LCR
                                         HS-SICH-InformationModify-LCR-PSCH-ReconfRqst OPTIONAL,
                                         ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
```

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HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SCCH-ID
                                                        CRITICALITY ignore EXTENSION Extended-HS-SCCH-ID
                                                                                                                     PRESENCE optional } |
    -- used if the HS-SCCH identity has a value larger than 31
    { ID id-UARFCNforNt
                                                        CRITICALITY ignore EXTENSION UARFON
                                                                                                                     PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD when using multiple frequencies
    { ID id-HSSICH-ReferenceSignal-InformationModifyLCR
                                                            CRITICALITY reject
                                                                                    EXTENSION HSSICH-ReferenceSignal-InformationModifyLCR
    PRESENCE optional }.
HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst
HS-SICH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   hsSICH-ID
                                            HS-SICH-ID.
    timeSlotLCR
                                            TimeSlotLCR
                                                                    OPTIONAL,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-InformationModify-LCR-PSCH-ReconfRgst-ExtIEs} }
    OPTIONAL,
HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                        CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
                                                                                                                     PRESENCE optional }.
    -- used if the HS-SICH identity has a value larger than 31
HS-SCCH-InformationModify-768-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-768-PSCH-ReconfRgst
HS-SCCH-InformationModifyItem-768-PSCH-ReconfRgst
                                                    ::= SEQUENCE {
    hs-sccH-ID
                                            HS-SCCH-ID.
    timeSlot
                                            TimeSlot
                                                                                             OPTIONAL.
                                            MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
                                            TDD-ChannelisationCode768,
    tdd-ChannelisationCode768
    hS-SCCH-MaxPower
                                            DL-Power
           OPTIONAL,
    hS-SICH-Information-768
                                            HS-SICH-InformationModify-768-PSCH-ReconfRgst OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
HS-SCCH-InformationModifyItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
                                               ::= SEQUENCE {
HS-SICH-InformationModify-768-PSCH-ReconfRqst
   hsSICH-ID
                                            HS-SICH-ID,
    timeSlot
                                            TimeSlot
                                                                                             OPTIONAL,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-InformationModify-768-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
```

```
HS-SICH-InformationModify-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-InformationModify-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst
Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst
Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst
                                                       ::= SEQUENCE {
    hs-sccH-ID
   iE-Extensions
                                ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                        OPTIONAL.
Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SCCH-ID
                                                        CRITICALITY ignore EXTENSION Extended-HS-SCCH-ID
                                                                                                                    PRESENCE optional },
    -- used if the HS-SCCH identity has a value larger than 31
E-PUCH-Information-PSCH-ReconfRqst ::= SEQUENCE {
    lTGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
    e-PUCH-Timeslot-Info
                                            E-PUCH-Timeslot-Info,
                                            ProtocolExtensionContainer { { E-PUCH-Information-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
E-PUCH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-Timeslot-Info ::= SEQUENCE (SIZE (1..maxNrOfE-PUCHSlots)) OF TimeSlot
Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
    e-AGCH-Information-PSCH-ReconfRgst
                                            E-AGCH-Information-PSCH-ReconfRqst
                                                                                    OPTIONAL,
                                            ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-Information-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-PSCH-ReconfRgst
E-AGCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                            TimeSlot,
```

```
MidambleShiftAndBurstType,
    midambleShiftAndBurstType
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    e-AGCH-MaxPower
                                            DL-Power.
    iE-Extensions
                                            ProtocolExtensionContainer { { E-AGCH-InformationItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                        OPTIONAL,
E-AGCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRgst::= SEQUENCE
    e-AGCH-InformationModify-PSCH-ReconfRqst
                                                    E-AGCH-InformationModify-PSCH-ReconfRgst
    iE-Extensions
                                                    ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-InformationModify-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-PSCH-ReconfRqst
E-AGCH-InformationModifyItem-PSCH-ReconfRqst
                                                 ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                            TimeSlot
                                                                        OPTIONAL,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                        OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                        OPTIONAL,
    e-AGCH-MaxPower
                                            DL-Power
                                                                        OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
E-AGCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst
Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst
                                                         ::= SEQUENCE
    e-AGCH-ID
                                        ProtocolExtensionContainer { { Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-HICH-Information-PSCH-ReconfRqst ::= SEQUENCE {
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
```

. . .

```
tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    e-HICH-MaxPower
                                            DL-Power.
    iE-Extensions
                                            ProtocolExtensionContainer { { E-HICH-Information-PSCH-ReconfRgst-ExtIEs} }
                                                                                                                                 OPTIONAL.
E-HICH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
   lTGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
   midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    e-PUCH-Timeslot-Info
                                            E-PUCH-Timeslot-Info,
                                            ProtocolExtensionContainer { { E-PUCH-Information-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
E-PUCH-Information-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst::= SEQUENCE {
    e-AGCH-Information-768-PSCH-ReconfRgst
                                                E-AGCH-Information-768-PSCH-ReconfRqst
                                            ProtocolExtensionContainer { Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Information-768-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-768-PSCH-ReconfRqst
E-AGCH-InformationItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    e-AGCH-MaxPower
                                            ProtocolExtensionContainer { { E-AGCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL.
E-AGCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRgst::= SEQUENCE {
    e-AGCH-InformationModify-768-PSCH-ReconfRqst
                                                                                                                     OPTIONAL,
                                                        E-AGCH-InformationModify-768-PSCH-ReconfRqst
                                                    ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
```

```
Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-InformationModify-768-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst
E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst
                                                     ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                            TimeSlot
                                                                            OPTIONAL,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768
                                                                            OPTIONAL,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768
                                                                            OPTIONAL.
    e-AGCH-MaxPower
                                            DL-Power
                                                                            OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { E-AGCH-InformationModifyItem-768-PSCH-ReconfRgst-ExtIEs} }
    OPTIONAL,
    . . .
E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-HICH-Information-768-PSCH-ReconfRqst ::= SEQUENCE
    midambleShiftAndBurstType768
                                           MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    e-HICH-MaxPower
                                            DL-Power,
   iE-Extensions
                                            ProtocolExtensionContainer { { E-HICH-Information-768-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                        OPTIONAL,
E-HICH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE
   lTGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
                                            E-PUCH-Timeslot-InfoLCR
    e-PUCH-Timeslot-InfoLCR
                                                                        OPTIONAL,
    -- This E-PUCH Timeslot Information is for the first Frequency repetition, E-PUCH timeslot information for Frequency repetitions 2 and on,
should be defined in MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst.
                                            ProtocolExtensionContainer { { E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
E-PUCH-Information-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                                                                CRITICALITY ignore
                    EXTENSION UARFON
                                                                                                PRESENCE optional } |
    -- This is the UARFCN for the first Frequency repetition. Mandatory for 1.28Mcps TDD when using multiple frequencies.
    { ID id-MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst
                                                                               CRITICALITY reject
                    EXTENSION MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-PUCH Information is for the 2nd and beyond frequencies.
```

```
E-PUCH-Timeslot-InfoLCR ::= SEQUENCE (SIZE (1..maxNrOfE-PUCHSlotsLCR)) OF E-PUCH-Timeslot-Item-InfoLCR
E-PUCH-Timeslot-Item-InfoLCR ::= SEQUENCE {
   timeSlot
                                          TimeSlotLCR,
   midambleShiftAndBurstType
                                          MidambleShiftLCR.
   e-PUCH-Codelist-LCR
                                          E-PUCH-Codelist-LCR,
                                          ProtocolExtensionContainer { { E-PUCH-Timeslot-Item-InfoLCR-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
E-PUCH-Timeslot-Item-InfoLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-Codelist-LCR ::= SEQUENCE (SIZE (1..maxNrOfEPUCHcodes)) OF TDD-ChannelisationCode
Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   e-AGCH-Information-LCR-PSCH-ReconfRqst E-AGCH-Information-LCR-PSCH-ReconfRqst,
                                          iE-Extensions
   OPTIONAL,
    . . .
Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-Information-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-LCR-PSCH-ReconfRgst
                                         ::= SEQUENCE
E-AGCH-InformationItem-LCR-PSCH-ReconfRqst
   e-AGCH-ID
                                          E-AGCH-Id,
   timeSlotLCR
                                          TimeSlotLCR,
   midambleShiftLCR
                                          MidambleShiftLCR,
   first-TDD-ChannelisationCode
                                          TDD-ChannelisationCode,
    second-TDD-ChannelisationCode
                                          TDD-ChannelisationCode,
   e-AGCH-MaxPower
                                          DL-Power,
   iE-Extensions
                                          ProtocolExtensionContainer { { E-AGCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                  OPTIONAL.
E-AGCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                          CRITICALITY ignore
                                                                 EXTENSION UARFCN
                                                                                        PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst::= SEQUENCE {
   e-AGCH-InformationModify-LCR-PSCH-ReconfRqst E-AGCH-InformationModify-LCR-PSCH-ReconfRqst,
   iE-Extensions
                                                  ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
E-AGCH-InformationModify-LCR-PSCH-ReconfRgst::= SEOUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRgst
E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRgst
                                                     ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlotLCR
                                            TimeSlotLCR
                                                                    OPTIONAL,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    first-TDD-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL.
    second-TDD-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    e-AGCH-MaxPower
                                            DL-Power
                                                                    OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRgst-ExtIEs} }
   OPTIONAL.
E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                    EXTENSION UARFCN
                                                                                             PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-Information-LCR-PSCH-ReconfRqst E-HICH-Information-LCR-PSCH-ReconfRqst,
    iE-Extensions
                                            ProtocolExtensionContainer { Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-HICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF E-HICH-InformationItem-LCR-PSCH-ReconfRqst
E-HICH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-ID-TDD
                                            E-HICH-ID-TDD,
    e-HICH-Type
                                            E-HICH-Type,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
                                            TimeSlotLCR,
    timeSlotLCR
    midambleShiftLCR
                                            MidambleShiftLCR,
                                            DL-Power,
    e-HICH-MaxPower
                                            ProtocolExtensionContainer { { E-HICH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL.
    . . .
E-HICH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Extended-E-HICH-ID-TDD
                                            CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional }
   -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
   { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                    EXTENSION UARFCN
                                                                                                 PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
```

```
Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-InformationModify-LCR-PSCH-ReconfRgst E-HICH-InformationModify-LCR-PSCH-ReconfRgst,
    iE-Extensions
                                                    ProtocolExtensionContainer { { Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst-ExtIEs} }
    OPTIONAL.
    . . .
Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-HICH-InformationModify-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF E-HICH-InformationModifyItem-LCR-PSCH-ReconfRgst
E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-ID-TDD
                                            E-HICH-ID-TDD,
    e-HICH-Type
                                            E-HICH-Type
                                                                    OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    timeSlotLCR
                                            TimeSlotLCR
                                                                    OPTIONAL,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    e-HICH-MaxPower
                                            DL-Power
                                                                    OPTIONAL,
                                            ProtocolExtensionContainer { { E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-HICH-ID-TDD
                                            CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional } |
    --Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
    { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                    EXTENSION UARFCN
                                                                                                 PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1.. maxNrOfEHICHs)) OF Delete-From-E-HICH-Resource-Poolitem-PSCH-ReconfRgst
Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst
                                                      ::= SEQUENCE {
    e-HICH-ID-TDD
                                                    E-HICH-ID-TDD,
                                                    ProtocolExtensionContainer { { Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRgst-ExtIEs} }
    iE-Extensions
        OPTIONAL,
Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                            CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional }.
    { ID id-Extended-E-HICH-ID-TDD
    -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
SYNC-UL-Partition-LCR ::= SEQUENCE {
    eRUCCH-SYNC-UL-codes-bitmap
                                                BIT STRING (SIZE (8)),
    iE-Extensions
                                                ProtocolExtensionContainer { { SYNC-UL-Partition-LCR-ExtIEs} }
                                                                                                                         OPTIONAL,
```

```
SYNC-UL-Partition-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-
ReconfRast
MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container
{{ MultipleFreq-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRqst}}
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreg-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRgst NBAP-PROTOCOL-IES ::= {
    { ID id-MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst
                                                                          CRITICALITY ignore
                                                                                                               TYPE MultipleFreg-E-PUCH-
Timeslot-Information-LCRItem-PSCH-ReconfRgst
                                                  PRESENCE optional }
MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst ::= SEQUENCE
   e-PUCH-Timeslot-InfoLCR
                                         E-PUCH-Timeslot-InfoLCR
   uARFCN
   iE-Extensions
                                                         ProtocolExtensionContainer { { MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-
ReconfRqst-ExtIEs} }
                          OPTIONAL,
MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF Max-RTWP-perUARFCN-Information-LCR-PSCH-
ReconfRqst-Item
Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item ::= SEQUENCE {
   maximum-Target-ReceivedTotalWideBandPower-LCR
                                                     Maximum-Target-ReceivedTotalWideBandPower-LCR,
                                  ProtocolExtensionContainer { { Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item-ExtIEs} }
   iE-Extensions
           OPTIONAL,
    . . .
Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   -- PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE
PhysicalSharedChannelReconfigurationResponse ::= SEQUENCE
   protocolIEs
                       ProtocolIE-Container
                                                  {{PhysicalSharedChannelReconfigurationResponse-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationResponse-Extensions}}
                                                                                                                            OPTIONAL,
```

```
PhysicalSharedChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
                                      CRITICALITY
                                                              TYPE
                                                                         CriticalityDiagnostics
                                                                                                        PRESENCE
                                                                                                                     optional
   },
   . . .
PhysicalSharedChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-E-HICH-TimeOffset
                                                    CRITICALITY reject EXTENSION E-HICH-TimeOffset
                 PRESENCE optional }
   { ID id-E-HICH-TimeOffsetLCR
                                                    CRITICALITY reject EXTENSION E-HICH-TimeOffsetLCR
                 PRESENCE optional }
   { ID id-HSDSCH-Common-System-Information-ResponseFDD
                                                    CRITICALITY ignore EXTENSION HSDSCH-Common-System-Information-ResponseFDD
   PRESENCE optional } |
   { ID id-HSDSCH-Paging-System-Information-ResponseFDD
                                                    CRITICALITY ignore EXTENSION HSDSCH-Paging-System-Information-ResponseFDD
   PRESENCE optional } |
   { ID id-UARFCNforNt
                                                    CRITICALITY reject EXTENSION UARFON
                 PRESENCE optional |
   -- Applicable to 1.28Mcps TDD when using multiple frequencies. This is the UARFCN for the first Frequency repetition.
   { ID id-E-HICH-TimeOffset-Extension
                                                    CRITICALITY reject EXTENSION E-HICH-TimeOffset-ExtensionLCR
                 PRESENCE optional }
   -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-HICH-TimeOffset-ExtensionLCR is the E-HICH Time Offset LCR for the 2nd
and beyond frequencies.
   { ID id-Common-EDCH-System-Information-ResponseFDD CRITICALITY ignore EXTENSION Common-EDCH-System-Information-ResponseFDD
   PRESENCE optional }
   -- FDD only
   { ID id-HSDSCH-Common-System-Information-ResponseLCR
                                                    CRITICALITY ignore EXTENSION HSDSCH-Common-System-Information-ResponseLCR
   PRESENCE optional } |
   { ID id-HSDSCH-Paging-System-Information-ResponseLCR
                                                    CRITICALITY ignore EXTENSION HSDSCH-Paging-System-Information-ResponseLCR
   PRESENCE optional } |
   PRESENCE optional },
   . . .
E-HICH-TimeOffset-ExtensionLCR ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container{{ Multiple-E-HICH-TimeOffsetLCR }}
Multiple-E-HICH-TimeOffsetLCR NBAP-PROTOCOL-IES ::= {
   MultipleFreq-E-HICH-TimeOffsetLCR ::= SEQUENCE {
   e-HICH-TimeOffsetLCR
                                      E-HICH-TimeOffsetLCR,
   11ARFCN
                                      UARFCN.
                                      iE-Extensions
                                                                                                               OPTIONAL,
MultipleFreq-E-HICH-TimeOffsetLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE
```

```
PhysicalSharedChannelReconfigurationFailure ::= SEQUENCE {
                      ProtocolIE-Container
                                                 {{PhysicalSharedChannelReconfigurationFailure-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationFailure-Extensions}}
                                                                                                                         OPTIONAL
PhysicalSharedChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CauseLevel-PSCH-ReconfFailure
                                        CRITICALITY ignore TYPE CauseLevel-PSCH-ReconfFailure
                                                                                                             PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
                                             CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                             PRESENCE optional },
   . . .
PhysicalSharedChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-HICH-TimeOffset-ReconfFailureTDD
                                                CRITICALITY ignore EXTENSION E-HICH-TimeOffset-ReconfFailureTDD
   PRESENCE optional } |
   PRESENCE
optional },
CauseLevel-PSCH-ReconfFailure ::= CHOICE {
   generalCause
                                             GeneralCauseList-PSCH-ReconfFailure,
   setSpecificCause
                                             SetSpecificCauseList-PSCH-ReconfFailureTDD,
   extension-CauseLevel-PSCH-ReconfFailure
                                             Extension-CauseLevel-PSCH-ReconfFailure
GeneralCauseList-PSCH-ReconfFailure ::= SEQUENCE {
                              ProtocolExtensionContainer { { GeneralCauseItem-PSCH-ReconfFailure-ExtIEs} }
   iE-Extensions
                                                                                                                 OPTIONAL,
GeneralCauseItem-PSCH-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SetSpecificCauseList-PSCH-ReconfFailureTDD ::= SEQUENCE {
   unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD
                                                                                                                 OPTIONAL,
   unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD
                                                                                                                 OPTIONAL,
   iE-Extensions
                                                 ProtocolExtensionContainer { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs} }
   OPTIONAL,
   . . .
SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

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```
Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPDSCHSets)) OF ProtocolIE-Single-Container {{ Unsuccessful-
PDSCHSetItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
          id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD
    PRESENCE mandatory}
Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
   pDSCHSet-ID
                          PDSCHSet-ID.
   cause
                          Cause,
                          iE-Extensions
                                                                                                                   OPTIONAL,
Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPUSCHSets)) OF ProtocolIE-Single-Container {{ Unsuccessful-
PUSCHSetItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD
    PRESENCE mandatory}
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
   pUSCHSet-ID
                          PUSCHSet-ID,
   cause
                          Cause,
                          ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Extension-CauseLevel-PSCH-ReconfFailure ::= ProtocolIE-Single-Container {{ Extension-CauseLevel-PSCH-ReconfFailureIE }}
Extension-CauseLevel-PSCH-ReconfFailureIE NBAP-PROTOCOL-IES ::= {
    { ID id-UARFCNSpecificCauseList CRITICALITY ignore TYPE UARFCNSpecificCauseList-PSCH-ReconfFailureTDD
                                                                                                            PRESENCE mandatory }
UARFCNSpecificCauseList-PSCH-ReconfFailureTDD ::= SEOUENCE (SIZE (0.. maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Unsuccessful-
UARFCNItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-UARFCNItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD
                                                                                                                                 PRESENCE
mandatory }
Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
   uARFCN
                          UARFCN,
```

```
-- Used for 1.28 Mcps TDD to indicate the carrier on which HSDPA or HSUPA resources configuration failure occurs.
   cause
   iE-Extensions
                          OPTIONAL.
Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                              optional}|
          id-HS-Cause CRITICALITY ignore
                                             EXTENSION Cause
   -- Used to indicate the cause of HSDPA related configuration failure.
   { ID id-E-Cause CRITICALITY ignore
                                            EXTENSION Cause
                                                                   PRESENCE
                                                                               optional},
   -- Used to indicate the cause of E-DCH related configuration failure.
   . . .
E-HICH-TimeOffset-ReconfFailureTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container{{ Multiple-E-HICH-TimeOffsetLCR }}
Common-System-Information-ResponseLCR::= SEQUENCE {
   hSDSCH-Common-System-Information-ResponseLCR
                                                    HSDSCH-Common-System-Information-ResponseLCR,
   hSDSCH-Paging-System-Information-ResponseLCR
                                                    HSDSCH-Paging-System-Information-ResponseLCR
                                                                                                                OPTIONAL,
   common-EDCH-System-Information-ResponseLCR
                                                    Common-EDCH-System-Information-ResponseLCR,
                                                    ProtocolExtensionContainer { { Common-System-Information-ResponseLCR-ExtIEs } }
   iE-Extensions
   OPTIONAL,
   . . .
Common-System-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ******************
-- RESET REQUEST
ResetRequest ::= SEQUENCE {
                                                    {{ResetRequest-IEs}},
                          ProtocolIE-Container
   protocolIEs
                          ProtocolExtensionContainer {{ResetRequest-Extensions}}
   protocolExtensions
                                                                                  OPTIONAL,
ResetRequest-IEs NBAP-PROTOCOL-IES ::= {
   {ID id-ResetIndicator
                              CRITICALITY ignore
                                                    TYPE
                                                           ResetIndicator
                                                                               PRESENCE
                                                                                          mandatory \,
    . . .
ResetRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
ResetIndicator ::= CHOICE {
    communicationContext
                                    CommunicationContextList-Reset,
    communicationControlPort
                                    CommunicationControlPortList-Reset,
    nodeB
                                    NULL,
    . . .
CommunicationContextList-Reset ::= SEQUENCE {
    communicationContextInfoList-Reset
                                            CommunicationContextInfoList-Reset,
                                            ProtocolExtensionContainer { (CommunicationContextItem-Reset-ExtIEs) }
    iE-Extensions
                                                                                                                         OPTIONAL,
CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext))
                                                                                       OF ProtocolIE-Single-Container {{
CommunicationContextInfoItemIE-Reset }}
CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
                                                    CRITICALITY reject
    {ID id-CommunicationContextInfoItem-Reset
                                                                            TYPE CommunicationContextInfoItem-Reset
                                                                                                                         PRESENCE mandatory }
CommunicationContextInfoItem-Reset ::= SEQUENCE {
    communicationContextType-Reset
                                            CommunicationContextType-Reset,
                                            ProtocolExtensionContainer { { CommunicationContextInfoItem-Reset-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
CommunicationContextInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommunicationContextType-Reset ::= CHOICE {
    cRNC-CommunicationContextID
                                            CRNC-CommunicationContextID,
    nodeB-CommunicationContextID
                                            NodeB-CommunicationContextID,
```

```
CommunicationControlPortList-Reset ::= SEQUENCE {
   communicationControlPortInfoList-Reset
                                          CommunicationControlPortInfoList-Reset,
   iE-Extensions
                                          OPTIONAL,
CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-Single-Container
{{CommunicationControlPortInfoItemIE-Reset }}
CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
   {ID id-CommunicationControlPortInfoItem-Reset
                                                 CRITICALITY reject
                                                                      TYPE CommunicationControlPortInfoItem-Reset
                                                                                                                       PRESENCE
mandatory }
CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
   communicationControlPortID
                                   CommunicationControlPortID,
                                   ProtocolExtensionContainer { {CommunicationControlPortInfoItem-Reset-ExtIEs} } OPTIONAL,
   iE-Extensions
CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RESET RESPONSE
  ******************
ResetResponse ::= SEQUENCE {
                                                 {{ResetResponse-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{ResetResponse-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
ResetResponse-IEs NBAP-PROTOCOL-IES ::= {
```

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```
{ID id-CriticalityDiagnostics
                                                                        CriticalityDiagnostics
                                                                                                                  PRESENCE
                                                                                                                                 optional},
                                      CRITICALITY
                                                     ignore
ResetResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- INFORMATION EXCHANGE INITIATION REQUEST
__ ********************
InformationExchangeInitiationRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                     {{InformationExchangeInitiationRequest-IEs}},
                          ProtocolExtensionContainer
                                                     {{InformationExchangeInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
InformationExchangeInitiationRequest-IES NBAP-PROTOCOL-IES ::= {
    { ID id-InformationExchangeID
                                                                            TYPE InformationExchangeID
                                                     CRITICALITY reject
    PRESENCE mandatory } |
    { ID id-InformationExchangeObjectType-InfEx-Rgst
                                                     CRITICALITY reject
                                                                            TYPE InformationExchangeObjectType-InfEx-Rgst PRESENCE mandatory
    { ID id-InformationType
                                                     CRITICALITY reject
                                                                            TYPE InformationType
    PRESENCE mandatory } |
    { ID id-InformationReportCharacteristics
                                                     CRITICALITY reject
                                                                            TYPE InformationReportCharacteristics
   PRESENCE mandatory },
InformationExchangeInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
InformationExchangeObjectType-InfEx-Rqst ::= CHOICE {
    cell
                                  Cell-InfEx-Rgst,
    . . .
Cell-InfEx-Rqst ::= SEQUENCE {
   c-ID
                                  C-ID,
                                  ProtocolExtensionContainer { { CellItem-InfEx-Rgst-ExtIEs} }
   iE-Extensions
                                                                                                                  OPTIONAL,
Cellitem-InfEx-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- INFORMATION EXCHANGE INITIATION RESPONSE
```

```
InformationExchangeInitiationResponse ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                     {{InformationExchangeInitiationResponse-IEs}},
                                                     {{InformationExchangeInitiationResponse-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                  OPTIONAL,
InformationExchangeInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
     ID id-InformationExchangeID
                                                CRITICALITY ignore TYPE InformationExchangeID
                                                                                                                  PRESENCE mandatory } |
     ID id-InformationExchangeObjectType-InfEx-Rsp CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rsp
                                                                                                                  PRESENCE optional }
     ID id-CriticalityDiagnostics
                                                 CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                  PRESENCE optional },
InformationExchangeInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
   cell
                              Cell-InfEx-Rsp,
    . . .
Cell-InfEx-Rsp ::= SEQUENCE {
    requestedDataValue
                                  RequestedDataValue,
   iE-Extensions
                                  ProtocolExtensionContainer { CellItem-InfEx-Rsp-ExtIEs} }
                                                                                                                  OPTIONAL,
CellItem-InfEx-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ****************
  INFORMATION EXCHANGE INITIATION FAILURE
        InformationExchangeInitiationFailure ::= SEQUENCE {
                          ProtocolIE-Container
                                                     {{InformationExchangeInitiationFailure-IEs}},
   protocolIEs
                                                    {{InformationExchangeInitiationFailure-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                  OPTIONAL,
    . . .
InformationExchangeInitiationFailure-IES NBAP-PROTOCOL-IES ::= {
     ID id-InformationExchangeID
                                      CRITICALITY ignore
                                                                TYPE InformationExchangeID
                                                                                                              PRESENCE
                                                                                                                         mandatory
     ID id-Cause
                                      CRITICALITY ignore
                                                                TYPE Cause
                                                                                                              PRESENCE
                                                                                                                         mandatory
     ID id-CriticalityDiagnostics
                                      CRITICALITY ignore
                                                                TYPE CriticalityDiagnostics
                                                                                                              PRESENCE
                                                                                                                         optional
```

```
InformationExchangeInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- INFORMATION REPORT
     *****************
InformationReport ::= SEQUENCE {
                                              {{InformationReport-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{InformationReport-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
InformationReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-InformationExchangeID
                                                 CRITICALITY ignore TYPE InformationExchangeID
                                                                                                                       PRESENCE
mandatory } |
   { ID id-InformationExchangeObjectType-InfEx-Rprt
                                                 CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rprt
                                                                                                                       PRESENCE
mandatory },
InformationReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
InformationExchangeObjectType-InfEx-Rprt ::= CHOICE {
                               Cell-Inf-Rprt,
   cell
   . . .
Cell-Inf-Rprt ::= SEQUENCE {
   requestedDataValueInformation RequestedDataValueInformation,
                               ProtocolExtensionContainer {{ CellItem-Inf-Rprt-ExtIEs }}
   iE-Extensions
                                                                                                      OPTIONAL,
CellItem-Inf-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    INFORMATION EXCHANGE TERMINATION REQUEST
  ************************
InformationExchangeTerminationRequest ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                 {{InformationExchangeTerminationRequest-IEs}},
   protocolExtensions
                        ProtocolExtensionContainer
                                                {{InformationExchangeTerminationRequest-Extensions}}
                                                                                                          OPTIONAL,
   . . .
```

```
InformationExchangeTerminationRequest-IEs NBAP-PROTOCOL-IES ::=
          id-InformationExchangeID
                                                                             TYPE
                                                                                    InformationExchangeID
                                                                                                                     PRESENCE
                                                          ignore
   mandatory},
   . . .
InformationExchangeTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
  INFORMATION EXCHANGE FAILURE INDICATION
  InformationExchangeFailureIndication ::= SEQUENCE {
                                                        [{InformationExchangeFailureIndication-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                             ProtocolExtensionContainer {{InformationExchangeFailureIndication-Extensions}}
                                                                                                                            OPTIONAL.
   . . .
InformationExchangeFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
     ID id-InformationExchangeID CRITICALITY ignore
                                                          TYPE InformationExchangeID
                                                                                        PRESENCE mandatory } |
    { ID id-Cause
                                CRITICALITY ignore
                                                          TYPE Cause
                                                                                        PRESENCE mandatory },
InformationExchangeFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- CELL SYNCHRONISATION INITIATION REQUEST TDD
__ ********************
CellSynchronisationInitiationRequestTDD ::= SEQUENCE {
                                                    {{CellSynchronisationInitiationRequestTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                                                  {{CellSynchronisationInitiationRequestTDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                         OPTIONAL,
CellSynchronisationInitiationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
         id-C-ID
                                        CRITICALITY
                                                                  TYPE
                                                                         C-ID
                                                                                                                            PRESENCE
                                                       reject
   mandatory } |
   { ID
          id-cellSyncBurstRepetitionPeriod
                                                   CRITICALITY
                                                                  reject
                                                                             TYPE
                                                                                    CellSyncBurstRepetitionPeriod
                                                                                                                            PRESENCE
   mandatory } |
          id-timeslotInfo-CellSyncInitiationRqstTDD CRITICALITY
                                                                  reject
                                                                             TYPE
                                                                                    TimeslotInfo-CellSyncInitiationRqstTDD
                        } -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
              optional
```

```
{ ID id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD
                                                                    CRITICALITY
                                                                                                                    CellSyncBurstTransInit-
                                                                                                TYPE
CellSyncInitiationRgstTDD
                               PRESENCE
                                           optional
                                                      } -- Applicable to 3.84Mcps TDD only
    { ID id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD
                                                                        CRITICALITY
                                                                                                                    TYPE CellSyncBurstMeasureInit-
CellSyncInitiationRqstTDD
                                PRESENCE
                                            optional
                                                      }, -- Applicable to 3.84Mcps TDD only
CellSynchronisationInitiationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD
                                                                    CRITICALITY reject EXTENSION SYNCDlCodeId-TransInitLCR-
CellSyncInitiationRqstTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD CRITICALITY reject EXTENSION SYNCDlCodeId-MeasureInitLCR-
CellSyncInitiationRqstTDD PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
TimeslotInfo-CellSyncInitiationRgstTDD::= SEQUENCE (SIZE (1..15)) OF TimeSlot
CellSyncBurstTransInit-CellSyncInitiationRgstTDD::= SEQUENCE {
    cSBTransmissionID
                                            CSBTransmissionID,
    sfn
                                            SFN,
    cellSyncBurstCode
                                            CellSyncBurstCode,
    cellSyncBurstCodeShift
                                            CellSyncBurstCodeShift,
    initialDLTransPower
                                            DL-Power,
                                            ProtocolExtensionContainer { { CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
CellSyncBurstTransInit-CellSyncInitiationRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD::= SEQUENCE {
                                            CSBMeasurementID,
    cSBMeasurementID
    cellSvncBurstCode
                                            CellSvncBurstCode,
    cellSyncBurstCodeShift
                                            CellSyncBurstCodeShift,
    synchronisationReportType
                                            SynchronisationReportType,
                                                                                    OPTIONAL,
    synchronisationReportCharacteristics
                                            SynchronisationReportCharacteristics,
    iE-Extensions
                                            ProtocolExtensionContainer { { CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD-ExtIEs} }
    OPTIONAL,
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBTransmissionID
                                            CSBTransmissionID,
    sfn
                                            SFN,
    uARFCN
                                            UARFCN,
    sYNCDlCodeId
                                            SYNCDlCodeId,
    dwPCH-Power
                                            DwPCH-Power,
```

```
iE-Extensions
   OPTIONAL,
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD::= SEQUENCE {
                                      CSBMeasurementID,
   cSBMeasurementID
   sfn
                                                                          OPTIONAL,
   uARFCN
                                      UARFCN,
   sYNCD1CodeId
                                      SYNCDlCodeId,
   synchronisationReportType
                                      SynchronisationReportType,
   synchronisationReportCharacteristics
                                      SynchronisationReportCharacteristics,
                                      ProtocolExtensionContainer { { SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
   . . .
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- CELL SYNCHRONISATION INITIATION RESPONSE TDD
    ************************
CellSynchronisationInitiationResponseTDD ::= SEQUENCE
   protocolIEs
                        ProtocolIE-Container
                                                 {{CellSynchronisationInitiationResponseTDD-IEs}},
                        ProtocolExtensionContainer {{CellSynchronisationInitiationResponseTDD-Extensions}}
                                                                                                      OPTIONAL,
   protocolExtensions
CellSynchronisationInitiationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationInitiationResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                      CRITICALITY ignore
                                                           TYPE CriticalityDiagnostics
                                                                                                         PRESENCE optional },
   *******************
  CELL SYNCHRONISATION INITIATION FAILURE TDD
  ******************
CellSynchronisationInitiationFailureTDD ::= SEQUENCE {
                                                 {{CellSynchronisationInitiationFailureTDD-IEs}},
   protocolIEs
                        ProtocolIE-Container
```

```
ProtocolExtensionContainer {{CellSynchronisationInitiationFailureTDD-Extensions}}
                                                                                                              OPTIONAL,
    protocolExtensions
CellSynchronisationInitiationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationInitiationFailureTDD-IES NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                         CRITICALITY ignore
                                                                 TYPE Cause
                                                                                                              PRESENCE mandatory } |
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore
                                                                 TYPE CriticalityDiagnostics
                                                                                                              PRESENCE optional },
  *****************
  CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD
  *****************
CellSynchronisationReconfigurationRequestTDD ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                      {{CellSynchronisationReconfigurationRequestTDD-IEs}},
                          ProtocolExtensionContainer
                                                    {{CellSynchronisationReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
    . . .
CellSynchronisationReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID
                                         CRITICALITY
                                                         reject
                                                                    TYPE
                                                                            C-ID
                                                                                                                                 PRESENCE
       mandatory }|
    { ID
         id-TimeSlot
                                         CRITICALITY
                                                         reject
                                                                    TYPE
                                                                            TimeSlot
                                                                                                                         PRESENCE
   mandatory }|
    -- Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it.
    { ID id-NCyclesPerSFNperiod
                                         CRITICALITY
                                                         reject
                                                                    TYPE
                                                                            NCyclesPerSFNperiod
                                                                                                                         PRESENCE
    mandatory }
                                                                            NRepetitionsPerCyclePeriod PRESENCE
          id-NRepetitionsPerCyclePeriod CRITICALITY
                                                         reiect
                                                                                                                  mandatorv
           id-CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD
                                                                    CRITICALITY
                                                                                   reiect
    CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD
                                                         PRESENCE
                                                                    optional
                                                                                } -- Applicable to 3.84Mcps TDD only
    { ID id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD
                                                                        CRITICALITY
                                                                                       reject
    CellSyncBurstMeasInfo-CellSyncReconfRqstTDD PRESENCE optional
                                                                        }, -- Applicable to 3.84Mcps TDD only
CellSynchronisationReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD
                                                                    CRITICALITY reject EXTENSION
                                                                                                              NSubCyclesPerCyclePeriod
                                  PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD
                                                                        CRITICALITY reject EXTENSION
                                                                                                              SYNCDlCodeIdTransReconfInfoLCR-
                              PRESENCE optional } -- Applicable to 1.28Mcps TDD only
CellSvncReconfRastTDD
    { ID id-SYNCD1CodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD
                                                                        CRITICALITY reject EXTENSION
                                                                                                              SYNCDlCodeIdMeasInfoLCR-
CellSyncReconfRqstTDD
                          PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
    . . .
CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-
CellSyncReconfRqstTDD
```

```
CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBTransmissionID
                                              CSBTransmissionID.
    syncFrameNumberToTransmit
                                              SyncFrameNumber,
    cellSyncBurstCode
                                              CellSyncBurstCode
                                                                          OPTIONAL.
    cellSyncBurstCodeShift
                                              CellSyncBurstCodeShift
                                                                          OPTIONAL,
    dlTransPower
                                              DL-Power
                                                                          OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer { CellSyncBurstTransInfoItem-CellSyncReconfRgstTDD-ExtIEs} }
   OPTIONAL,
    . . .
CellSyncBurstTransInfoItem-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasInfo-CellSyncReconfRqstTDD ::= SEQUENCE {
    cellSyncBurstMeasInfoList-CellSyncReconfRgstTDD
                                                      CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD,
    synchronisationReportType
                                                      SynchronisationReportTypeIE
                                                                                             OPTIONAL,
    synchronisationReportCharacteristics
                                                      SynchronisationReportCharacteristicsIE OPTIONAL,
   iE-Extensions
                                                      ProtocolExtensionContainer { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs} }
   OPTIONAL,
    . . .
CellSyncBurstMeasInfo-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD }}
CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD
    PRESENCE mandatory }
SynchronisationReportTypeIE ::= ProtocolIE-Single-Container {{ SynchronisationReportTypeIEs }}
SynchronisationReportTypeIEs NBAP-PROTOCOL-IES ::= {
    { ID id-SynchronisationReportType
                                                      CRITICALITY reject TYPE SynchronisationReportType
       PRESENCE
                   mandatory }
SynchronisationReportCharacteristicsIE ::= ProtocolIE-Single-Container {{ SynchronisationReportCharacteristicsIEs }}
SynchronisationReportCharacteristicsIEs NBAP-PROTOCOL-IES ::= {
    { ID id-SynchronisationReportCharacteristics
                                                      CRITICALITY reject TYPE SynchronisationReportCharacteristics
                                                                                                                                   PRESENCE
   mandatory }
CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-
CellSyncReconfRqstTDD
```

```
CellSyncBurstMeasInfoItem-CellSyncReconfRgstTDD ::= SEQUENCE {
    syncFrameNrToReceive
                                          SyncFrameNumber.
    syncBurstInfo
                                          CellSyncBurstInfoList-CellSyncReconfRgstTDD,
   iE-Extensions
                                          OPTIONAL,
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRqstTDD
CellSyncBurstInfoItem-CellSyncReconfRgstTDD ::= SEQUENCE {
    cSBMeasurementID
                                              CSBMeasurementID,
    cellSyncBurstCode
                                              CellSyncBurstCode,
    cellSyncBurstCodeShift
                                              CellSyncBurstCodeShift,
                                              ProtocolExtensionContainer { { CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSyncFramesLCR)) OF SYNCDlCodeIdTransReconfItemLCR-
CellSyncReconfRqstTDD
SYNCDlCodeIdTransReconfItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE
    cSBTransmissionID
                                              CSBTransmissionID,
    syncFrameNumberforTransmit
                                              SyncFrameNumber,
   uARFCN
                                              UARFCN,
   sYNCDlCodeId
                                              SYNCDlCodeId
                                                             OPTIONAL
   dwPCH-Power
                                              DwPCH-Power
                                                             OPTIONAL.
                                              ProtocolExtensionContainer { { SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD::= SEQUENCE {
    sYNCDlCodeIdMeasInfoList
                                              SYNCDlCodeIdMeasInfoList-CellSyncReconfRgstTDD,
    synchronisationReportType
                                              SynchronisationReportType
                                                                                            OPTIONAL,
    synchronisationReportCharacteristics
                                              SynchronisationReportCharacteristics
                                                                                        OPTIONAL,
    iE-Extensions
                       ProtocolExtensionContainer
                                                  { SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs} } OPTIONAL,
    . . .
```

```
SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD::= SEQUENCE (SIZE (1.. maxNrOfSyncDLCodesLCR)) OF SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD
SYNCD1CodeIdMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
   syncFrameNrToReceive
                                         SyncFrameNumber,
   sYNCDlCodeIdInfoLCR
                                         SYNCDlCodeIdInfoListLCR-CellSyncReconfRqstTDD,
                                         ProtocolExtensionContainer { { SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
SYNCDlCodeIdMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdInfoListLCR-CellSyncReconfRgstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCDlCodeIdInfoItemLCR-
CellSyncReconfRqstTDD
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
   cSBMeasurementID
                                            CSBMeasurementID,
   sYNCD1CodeId
                                            SYNCDlCodeId,
   uARFCN
                                            UARFCN,
   propagationDelayCompensation
                                            TimingAdjustmentValueLCR
                                                                          OPTIONAL,
   iE-Extensions
                                            OPTIONAL,
   . . .
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  CELL SYNCHRONISATION RECONFIGURATION RESPONSE TDD
  *********************
CellSynchronisationReconfigurationResponseTDD ::= SEQUENCE {
                                                    {{CellSynchronisationReconfigurationResponseTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{CellSynchronisationReconfigurationResponseTDD-Extensions}}
                                                                                                                 OPTIONAL,
CellSynchronisationReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReconfigurationResponseTDD-IES NBAP-PROTOCOL-IES ::= {
```

```
id-CriticalityDiagnostics
                                                    CRITICALITY
                                                                              TYPE
                                                                                     CriticalityDiagnostics
                                                                  ignore
                                                                                                                      PRESENCE
   optional
  *****************
  CELL SYNCHRONISATION RECONFIGURATION FAILURE TDD
  *******************
CellSynchronisationReconfigurationFailureTDD ::= SEQUENCE
   protocolIEs
                         ProtocolIE-Container
                                                    {{CellSynchronisationReconfigurationFailureTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellSynchronisationReconfigurationFailureTDD-Extensions}}
                                                                                                               OPTIONAL.
CellSynchronisationReconfigurationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReconfigurationFailureTDD-IES NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                        CRITICALITY ignore
                                                               TYPE Cause
                                                                                                           PRESENCE mandatory } |
     ID id-CriticalityDiagnostics
                                        CRITICALITY ignore
                                                               TYPE CriticalityDiagnostics
                                                                                                           PRESENCE optional },
  CELL SYNCHRONISATION ADJUSTMENT REQUEST TDD
__ *********************
CellSynchronisationAdjustmentRequestTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                    {{CellSynchronisationAdjustmentRequestTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellSynchronisationAdjustmentRequestTDD-Extensions}}
                                                                                                          OPTIONAL,
CellSynchronisationAdjustmentRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CellAdjustmentInfo-SyncAdjustmntRqstTDD CRITICALITY ignore TYPE CellAdjustmentInfo-SyncAdjustmentRqstTDD
                                                                                                                      PRESENCE mandatory
CellAdjustmentInfo-SyncAdjustmentRgstTDD::= SEOUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ CellAdjustmentInfoItemIE-
SyncAdjustmntRqstTDD }}
CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-CellAdjustmentInfoItem-SyncAdjustmentRgstTDD
                                                          CRITICALITY ignore TYPE CellAdjustmentInfoItem-SyncAdjustmentRgstTDD
                                                                                                                                  PRESENCE
mandatory }
CellAdjustmentInfoItem-SyncAdjustmentRgstTDD ::= SEOUENCE
    frameAdjustmentValue
                                          FrameAdjustmentValue
                                                                     OPTIONAL,
    timingAdjustmentValue
                                          TimingAdjustmentValue
                                                                     OPTIONAL,
    dLTransPower
                                          DL-Power
                                                                     OPTIONAL, -- Applicable to 3.84Mcps TDD only
                                                                     OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { CellAdjustmentInfoItem-SyncAdjustmntRqstTDD-ExtIEs} }
   OPTIONAL,
    . . .
CellAdjustmentInfoItem-SyncAdjustmntRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DwPCH-Power
                                      CRITICALITY ignore EXTENSION DwPCH-Power
                                                                                            PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-TimingAdjustmentValueLCR
                                      CRITICALITY ignore EXTENSION TimingAdjustmentValueLCR PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
  CELL SYNCHRONISATION ADJUSTMENT RESPONSE TDD
        ****************
CellSynchronisationAdjustmentResponseTDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                      {{CellSynchronisationAdjustmentResponseTDD-IEs}},
                                                     {{CellSynchronisationAdjustmentResponseTDD-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                                OPTIONAL,
    . . .
CellSynchronisationAdjustmentResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-CriticalityDiagnostics
                                              CRITICALITY
                                                             ignore
                                                                         TYPE
                                                                                 CriticalityDiagnostics
   PRESENCE
               optional },
    . . .
  CELL SYNCHRONISATION ADJUSTMENT FAILURE TDD
   *****************
CellSynchronisationAdjustmentFailureTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{CellSynchronisationAdjustmentFailureTDD-IEs}},
                                                      {{CellSynchronisationAdjustmentFailureTDD-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                               OPTIONAL,
```

```
CellSynchronisationAdjustmentFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentFailureTDD-IES NBAP-PROTOCOL-IES ::= {
           id-CauseLevel-SyncAdjustmntFailureTDD CRITICALITY ignore
                                                                            TYPE
                                                                                     CauseLevel-SyncAdjustmntFailureTDD
                                                                                                                                PRESENCE
    mandatory } |
    { ID
          id-CriticalityDiagnostics
                                                    CRITICALITY ignore
                                                                            TYPE
                                                                                    CriticalityDiagnostics
                                                                                                                                PRESENCE
    optional },
    . . .
CauseLevel-SyncAdjustmntFailureTDD ::= CHOICE {
    generalCause
                           GeneralCauseList-SyncAdjustmntFailureTDD,
                            CellSpecificCauseList-SyncAdjustmntFailureTDD,
    cellSpecificCause
    . . .
GeneralCauseList-SyncAdjustmntFailureTDD::= SEQUENCE {
                                                ProtocolExtensionContainer { GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
    unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD
                                                                        Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD,
                                                ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB))
                                                                                                                     OF ProtocolIE-Single-Container
{{ Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD }}
Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD NBAP-PROTOCOL-IES ::= {
          id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD
                                                                                     CRITICALITY
                                                                                                                     ignore
                                                                                                                                        TYPE
    Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD
                                                                        PRESENCE
                                                                                    mandatory},
    . . .
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD::= SEQUENCE {
    c-ID
                                                C-ID,
```

```
cause
                                           Cause,
   iE-Extensions
                                           ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-
ExtIEs } }
              OPTIONAL.
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     CELL SYNCHRONISATION TERMINATION REQUEST TDD
  ******************
CellSynchronisationTerminationRequestTDD ::= SEQUENCE {
   protocolIEs
                                                   {{CellSynchronisationTerminationRequestTDD-IEs}},
                         ProtocolIE-Container
                                                  {{CellSynchronisationTerminationRequestTDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                          OPTIONAL,
CellSynchronisationTerminationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationTerminationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
         id-C-ID
                                        CRITICALITY
                                                       ignore
                                                                 TYPE
                                                                        C-ID
                                                                                                                           PRESENCE
   mandatory }|
          id-CSBTransmissionID
                                                                         CSBTransmissionID
   { ID
                                        CRITICALITY
                                                       ignore
                                                                 TYPE
                                                                                                                           PRESENCE
   optional
   { ID
         id-CSBMeasurementID
                                        CRITICALITY
                                                                 TYPE
                                                      ignore
                                                                         CSBMeasurement ID
                                                                                                                           PRESENCE
   optional
  CELL SYNCHRONISATION FAILURE INDICATION TDD
__ ********************
CellSynchronisationFailureIndicationTDD ::= SEQUENCE {
                                                   {{CellSynchronisationFailureIndicationTDD-IEs}},
   protocolIEs
                        ProtocolIE-Container
                         ProtocolExtensionContainer
                                                   {{CellSynchronisationFailureIndicationTDD-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
CellSynchronisationFailureIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationFailureIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-C-ID
                                         CRITICALITY
                                                                    TYPE
                                                                            C-ID
                                                                                                                                PRESENCE
                                                         ignore
   mandatory }|
    { ID id-CSBTransmissionID
                                         CRITICALITY
                                                         ignore
                                                                    TYPE
                                                                            CSBTransmissionID
                                                                                                                                PRESENCE
    optional
                  } |
    { ID
          id-CSBMeasurementID
                                         CRITICALITY
                                                         ignore
                                                                    TYPE
                                                                            CSBMeasurement.ID
                                                                                                                                PRESENCE
    optional
    { ID id-Cause
                                         CRITICALITY
                                                         ignore
                                                                    TYPE
                                                                            Cause
                                                                                                                                PRESENCE
   mandatory },
  *****************
-- CELL SYNCHRONISATION REPORT TDD
      ******************
CellSynchronisationReportTDD ::= SEQUENCE {
                                                     {{CellSynchronisationReportTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
                                                    {{CellSynchronisationReportTDD-Extensions}}
                          ProtocolExtensionContainer
   protocolExtensions
                                                                                                   OPTIONAL,
CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CellSyncInfo-CellSyncReprtTDD
                                          CRITICALITY ignore
                                                                    TYPE CellSyncInfo-CellSyncReprtTDD
                                                                                                                         PRESENCE mandatory
    . . .
CellSyncInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF CellSyncInfoItemIE-CellSyncReprtTDD
CellSyncInfoItemIE-CellSyncReprtTDD ::= SEQUENCE {
   c-ID-CellSyncReprtTDD
                                     C-ID-IE-CellSyncReprtTDD,
    syncReportType-CellSyncReprtTDD
                                     SyncReportTypeIE-CellSyncReprtTDD
                                                                            OPTIONAL,
C-ID-IE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ C-ID-IEs-CellSyncReprtTDD }}
C-ID-IEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID
                                     CRITICALITY ignore
                                                                TYPE C-ID
                                                                                           PRESENCE mandatory }
SyncReportTypeIE-CellSyncReprtTDD::= ProtocolIE-Single-Container {{ SyncReportTypeIEs-CellSyncReprtTDD }}
SyncReportTypeIEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
         id-SyncReportType-CellSyncReprtTDD
                                                 CRITICALITY ignore
                                                                        TYPE SyncReportType-CellSyncReprtTDD
    { ID
                                                                                                                  PRESENCE
                                                                                                                                mandatory}
```

```
SyncReportType-CellSyncReprtTDD ::= CHOICE {
    intStdPhSyncInfo-CellSyncReprtTDD
                                          IntStdPhCellSyncInfo-CellSyncReprtTDD,
   lateEntrantCell
                                          NULL.
    frequencyAcquisition
                                          NULL,
IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE
    cellSyncBurstMeasuredInfo
                                              CellSyncBurstMeasInfoList-CellSyncReprtTDD,
                                              ProtocolExtensionContainer { { IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-AccumulatedClockupdate-CellSyncReprtTDD
                                                      CRITICALITY ignore EXTENSION
                                                                                     TimingAdjustmentValue
                                                                                                                PRESENCE
                                                                                                                           optional
     ID id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD CRITICALITY ignore EXTENSION
                                                                                     SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD
                                                                                                                                   PRESENCE
optional }, -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.
CellSyncBurstMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReprtTDD --
Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
                                          SFN,
    cellSyncBurstInfo-CellSyncReprtTDD
                                          SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
   iE-Extensions
                                          ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
    cellSyncBurstAvailable
                               CellSyncBurstAvailable-CellSyncReprtTDD,
    cellSyncBurstNotAvailable
CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
                               CellSyncBurstTiming,
    cellSyncBurstTiming
    cellSyncBurstSIR
                               CellSyncBurstSIR,
                              iE-Extensions
                                                                                                                    OPTIONAL,
CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD
-- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.
```

```
SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
   syncDLCodeIdInfo-CellSyncReprtTDD
                                        SyncDLCodeIdInfo-CellSyncReprtTDD,
   iE-Extensions
                                        ProtocolExtensionContainer { { SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs } }
   OPTIONAL,
SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeIdInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptionsperSyncFrameLCR)) OF SyncDLCodeIdItem-CellSyncReprtTDD
SyncDLCodeIdItem-CellSyncReprtTDD ::= CHOICE {
                                    SyncDLCodeIdAvailable-CellSyncReprtTDD,
   syncDLCodeIdAvailable
   syncDLCodeIDNotAvailable
   . . .
SyncDLCodeIdAvailable-CellSyncReprtTDD ::= SEQUENCE {
                            CellSyncBurstTimingLCR,
   syncDLCodeIdTiming
   svncDLCodeIdSIR
                             CellSyncBurstSIR,
                             iE-Extensions
                                                                                                             OPTIONAL,
SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- BEARER REARRANGEMENT INDICATION
        BearerRearrangementIndication ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                          {{BearerRearrangementIndication-IEs}},
                                ProtocolExtensionContainer {{BearerRearrangementIndication-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
BearerRearrangementIndication-IEs NBAP-PROTOCOL-IES ::=
    { ID id-CRNC-CommunicationContextID
                                                   CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                           PRESENCE
mandatory }
   { ID id-SignallingBearerRequestIndicator
                                                   CRITICALITY ignore TYPE SignallingBearerRequestIndicator
                                                                                                                           PRESENCE
optional } |
   { ID id-DCH-RearrangeList-Bearer-RearrangeInd
                                                   CRITICALITY ignore TYPE DCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                           PRESENCE
   optional }
     ID id-DSCH-RearrangeList-Bearer-RearrangeInd
                                                   CRITICALITY ignore TYPE DSCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                    PRESENCE optional }
   -- TDD only.
```

```
ID id-USCH-RearrangeList-Bearer-RearrangeInd
                                                        CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                                PRESENCE optional }
    -- TDD only.
    { ID id-HSDSCH-RearrangeList-Bearer-RearrangeInd
                                                        CRITICALITY ignore TYPE HSDSCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                                        PRESENCE
optional },
BearerRearrangementIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore EXTENSION E-DCH-RearrangeList-Bearer-RearrangeInd PRESENCE optional },
DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-RearrangeItem-Bearer-RearrangeInd
DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE
    dCH-ID
                                                    DCH-ID,
    iE-Extensions
                                                    ProtocolExtensionContainer { { DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
    OPTIONAL,
DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-RearrangeItem-Bearer-RearrangeInd
DSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
                                                    DSCH-ID,
    dSCH-ID
    iE-Extensions
                                                    ProtocolExtensionContainer { { DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
    OPTIONAL,
    . . .
DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-RearrangeItem-Bearer-RearrangeInd
USCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
    uSCH-ID
                                                    ProtocolExtensionContainer { { USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
    iE-Extensions
    OPTIONAL,
USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-RearrangeItem-Bearer-RearrangeInd
```

```
HSDSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
   hsDSCH-MACdFlow-ID
                                                  HSDSCH-MACdFlow-ID.
   iE-Extensions
                                                  ProtocolExtensionContainer { { HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
   OPTIONAL,
HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF E-DCH-RearrangeItem-Bearer-RearrangeInd
E-DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
   e-DCH-MACdFlow-ID
                                                  E-DCH-MACdFlow-ID,
   iE-Extensions
                                                  ProtocolExtensionContainer { { E-DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
   OPTIONAL,
E-DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-EDCH-Cell-Information-Bearer-Rearrangement
                                                                     CRITICALITY ignore EXTENSION
                                                                                                               Additional-EDCH-Cell-
Information-Bearer-Rearrangement-List
                                              PRESENCE optional },
   . . .
Additional-EDCH-Cell-Information-Bearer-Rearrangement-List ::= SEOUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-Bearer-
Rearrangement-ItemIEs
Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs ::= SEQUENCE {
    transport-Bearer-Rearrangement-Indicator-for-Additional-EDCH-Separate-Mode
                                                                                                                          Transport-Bearer-
Rearrangement-Indicator-for-Additional-EDCH-Separate-Mode,
   iE-Extensions
                                                  ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs-
ExtIEs } }
               OPTIONAL,
Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transport-Bearer-Rearrangement-Indicator-for-Additional-EDCH-Separate-Mode
::= ENUMERATED {
   bearer-for-primary-carrier,
   bearer-for-secondary-carrier.
   bearers-for-both-primary-and-secondary-carriers,
  *****************
-- RADIO LINK ACTIVATION COMMAND FDD
__ **********************
```

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```
RadioLinkActivationCommandFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                     {{RadioLinkActivationCommandFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkActivationCommandFDD-Extensions}}
                                                                                                                         OPTIONAL,
RadioLinkActivationCommandFDD-IES NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
                                                            CRITICALITY ignore TYPE
                                                                                       NodeB-CommunicationContextID
                   PRESENCE
                             mandatory } |
           id-DelayedActivationList-RL-ActivationCmdFDD
    { ID
                                                            CRITICALITY ignore TYPE
                                                                                       DelayedActivationInformationList-RL-ActivationCmdFDD
           PRESENCE
                     mandatory },
RadioLinkActivationCommandFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DelayedActivationInformationList-RL-ActivationCmdFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {
    { DelayedActivationInformation-RL-ActivationCmdFDD-IEs} }
DelayedActivationInformation-RL-ActivationCmdFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-DelayedActivationInformation-RL-ActivationCmdFDD CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdFDD
    PRESENCE optional
DelayedActivationInformation-RL-ActivationCmdFDD ::= SEQUENCE {
                              RL-ID,
                              DelayedActivationUpdate,
    delayed-activation-update
                              ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- RADIO LINK ACTIVATION COMMAND TDD
  *****************
RadioLinkActivationCommandTDD ::= SEOUENCE {
   protocolIEs
                       ProtocolIE-Container
                                                     {{RadioLinkActivationCommandTDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkActivationCommandTDD-Extensions}}
                                                                                                                         OPTIONAL,
RadioLinkActivationCommandTDD-IES NBAP-PROTOCOL-IES ::= {
         id-NodeB-CommunicationContextID
                                                            CRITICALITY ignore TYPE
                                                                                       NodeB-CommunicationContextID
                   PRESENCE
                              mandatory } |
```

```
id-DelayedActivationList-RL-ActivationCmdTDD
                                                              CRITICALITY ignore TYPE
                                                                                         DelayedActivationInformationList-RL-ActivationCmdTDD
           PRESENCE
                       mandatory },
RadioLinkActivationCommandTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DelayedActivationInformationList-RL-ActivationCmdTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
     DelayedActivationInformation-RL-ActivationCmdTDD-IEs} }
DelayedActivationInformation-RL-ActivationCmdTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-DelayedActivationInformation-RL-ActivationCmdTDD
                                                            CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdTDD
    PRESENCE optional
DelayedActivationInformation-RL-ActivationCmdTDD ::= SEQUENCE {
    delayed-activation-update
                              DelayedActivationUpdate,
   iE-Extensions
                               ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs} } OPTIONAL,
DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    RADIO LINK PARAMETER UPDATE INDICATION FDD
RadioLinkParameterUpdateIndicationFDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                       {{RadioLinkParameterUpdateIndicationFDD-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer
                                                     {{RadioLinkParameterUpdateIndicationFDD-Extensions}}
                                                                                                                    OPTIONAL,
RadioLinkParameterUpdateIndicationFDD-IEs NBAP-PROTOCOL-IES ::=
    { ID id-CRNC-CommunicationContextID
                                              CRITICALITY
                                                              ignore
                                                                         TYPE
                                                                                  CRNC-CommunicationContextID
                                                                                                                            PRESENCE
    mandatory }
    { ID id-HSDSCH-FDD-Update-Information
                                              CRITICALITY
                                                              ignore
                                                                         TYPE
                                                                                 HSDSCH-FDD-Update-Information
                                                                                                                            PRESENCE
    optional
               },
RadioLinkParameterUpdateIndicationFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-DCH-FDD-Update-Information
                                                          CRITICALITY ignore EXTENSION E-DCH-FDD-Update-Information
                                                                                                                            PRESENCE optional |
     ID id-Additional-HS-Cell-Information-RL-Param-Upd
                                                          CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-RL-Param-Upd
    PRESENCE optional } |
    { ID id-Additional-EDCH-Cell-Information-RL-Param-Upd
                                                          CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-RL-Param-Upd
    PRESENCE optional } |
```

```
{ ID id-CPC-RecoveryReport
                                                        CRITICALITY ignore EXTENSION CPC-RecoveryReport
                                                                                                                       PRESENCE optional },
Additional-HS-Cell-Information-RL-Param-Upd ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Param-Upd-ItemIEs
Additional-HS-Cell-Information-RL-Param-Upd-ItemIEs ::=SEQUENCE{
   hs-DsCH-FDD-secondary-serving-Update-Information Hs-DsCH-FDD-secondary-serving-Update-Information,
                                 ProtocolExtensionContainer { Additional-HS-Cell-Information-RL-Setup-ExtIEs} } OPTIONAL,
   iE-Extensions
Additional-HS-Cell-Information-RL-Setup-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-RL-Param-Upd ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs
Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs ::=SEOUENCE{
    additional-EDCH-FDD-Update-Information
                                                                          Additional-EDCH-FDD-Update-Information,
   iE-Extensions
                                 ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs-ExtIEs} } OPTIONAL,
    . . .
Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK PARAMETER UPDATE INDICATION TDD
        ****************
RadioLinkParameterUpdateIndicationTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                    {{RadioLinkParameterUpdateIndicationTDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                   {{RadioLinkParameterUpdateIndicationTDD-Extensions}}
                                                                                                                OPTIONAL,
RadioLinkParameterUpdateIndicationTDD-IEs NBAP-PROTOCOL-IES ::=
    { ID id-CRNC-CommunicationContextID
                                            CRITICALITY
                                                           ignore
                                                                      TYPE
                                                                              CRNC-CommunicationContextID
                                                                                                                       PRESENCE
   mandatory }
    { ID id-HSDSCH-TDD-Update-Information
                                            CRITICALITY
                                                           ignore
                                                                      TYPE
                                                                              HSDSCH-TDD-Update-Information
                                                                                                                       PRESENCE
   optional
RadioLinkParameterUpdateIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ******************
```

-- SECONDARY UL FREQUENCY REPORT

```
-- MBMS NOTIFICATION UPDATE COMMAND
  ******************
MBMSNotificationUpdateCommand ::= SEQUENCE {
                                            {{ MBMSNotificationUpdateCommand-IEs}},
   protocolIEs
                        ProtocolIE-Container
   protocolExtensions ProtocolExtensionContainer {{ MBMSNotificationUpdateCommand-Extensions}}
                                                                                                          OPTIONAL,
MBMSNotificationUpdateCommand-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                          CRITICALITY ignore TYPE C-ID
                                                                                                                PRESENCE mandatory
     ID id-CommonPhysicalChannelID
                                          CRITICALITY ignore TYPE CommonPhysicalChannelID
                                                                                                                PRESENCE mandatory
     ID id-Modification-Period
                                          CRITICALITY ignore TYPE Modification-Period
                                                                                                                PRESENCE optional
     ID id-MICH-CFN
                                          CRITICALITY ignore TYPE MICH-CFN
                                                                                                                PRESENCE mandatory
    ID id-NI-Information-NotifUpdateCmd
                                          CRITICALITY ignore TYPE NI-Information
                                                                                                                PRESENCE mandatory
MBMSNotificationUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
      ***************
-- UE STATUS UPDATE COMMAND
__ *********************
UEStatusUpdateCommand ::= SEQUENCE {
   protocolIEs
                  ProtocolIE-Container
                                              {{UEStatusUpdateCommand-IEs}},
   protocolExtensions ProtocolExtensionContainer {{UEStatusUpdateCommand-Extensions}}
                                                                                 OPTIONAL,
UEStatusUpdateCommand-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-Cell-ERNTI-Status-Information
                                                    CRITICALITY ignore TYPE Cell-ERNTI-Status-Information
      PRESENCE mandatory },
   . . .
UEStatusUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ******************
```

```
SecondaryULFrequencyReport ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                  {{SecondaryULFrequencyReport-IEs}},
                          ProtocolExtensionContainer {{SecondaryULFrequencyReport-Extensions}}
   protocolExtensions
                                                                                                            OPTIONAL,
SecondaryULFrequencyReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                      CRITICALITY ignore TYPE
                                                                                 NodeB-CommunicationContextID
                                                                                                                                  PRESENCE
   mandatory } |
    { ID id-ActivationInformation CRITICALITY
                                                  ignore
                                                             TYPE ActivationInformation
                                                                                             PRESENCE mandatory },
SecondaryULFrequencyReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- SECONDARY UL FREQUENCY UPDATE INDICATION
__ *********************
SecondaryULFrequencyUpdateIndication ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{SecondaryULFrequencyUpdateIndication-IEs}},
                          ProtocolExtensionContainer {{SecondaryULFrequencyUpdateIndication-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL,
SecondaryULFrequencyUpdateIndication-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CRNC-CommunicationContextID
                                              CRITICALITY
                                                             ignore
                                                                         TYPE
                                                                                 CRNC-CommunicationContextID
                                                                                                                           PRESENCE
   mandatory } |
   { ID id-ActivationInformation CRITICALITY
                                                  ignore
                                                             TYPE ActivationInformation
                                                                                             PRESENCE mandatory },
    . . .
SecondaryULFrequencyUpdateIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
END
```

9.3.4 Information Elements Definitions

```
NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
TMPORTS
    maxNrOfRLs,
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC.
    maxNrOfTFs.
    maxTTI-count,
    maxRateMatching,
    maxHS-PDSCHCodeNrComp-1,
    maxHS-SCCHCodeNrComp-1,
    maxNrOfCellSyncBursts,
    maxNrOfCombEDPDCH,
    maxNrOfEDCH-HARQ-PO-QUANTSTEPs,
    maxNrOfEDCHHARQProcesses2msEDCH,
    maxNrOfBits-MACe-PDU-non-scheduled,
    maxNrOfEDPCCH-PO-QUANTSTEPs,
    maxNrOfRefETFCI-PO-QUANTSTEPs,
    maxNrOfRefETFCIs,
    maxNrOfMeasNCell,
    maxNrOfMeasNCell-1,
    maxNrOfReceptsPerSyncFrame,
    maxNrOfSF,
    maxTGPS,
    maxNrOfUSCHs,
    maxNrOfULTSs,
    maxNrOfULTSLCRs,
    maxNrOfDPCHs,
    maxNrOfDPCHLCRs,
    maxNrOfDPCHs768,
    maxNrOfCodes,
    maxNrOfDSCHs,
    maxNrOfDLTSs,
    maxNrOfDLTSLCRs.
    maxNrOfDCHs,
    maxNrOfLevels,
    maxNoGPSItems,
    maxNoSat,
    maxNrOfCellPortionsPerCell,
    maxNrOfCellPortionsPerCell-1,
    maxNrOfHSSCCHs.
    maxNrOfHSSCCHCodes,
    maxNrOfMACdFlows,
    maxNrOfMACdFlows-1,
    maxNrOfMACdPDUIndexes,
    maxNrOfMACdPDUIndexes-1,
    maxNrOfMACdPDUSize,
```

```
maxNrOfNIs,
maxNrOfPriorityQueues,
maxNrOfPriorityOueues-1,
maxNrOfHAROProcesses,
maxNrOfSyncDLCodesLCR,
maxNrOfSyncFramesLCR,
maxNrOfContextsOnUeList,
maxNrOfPriorityClasses,
maxNrOfSatAlmanac-maxNoSat,
maxNrOfE-AGCHs,
maxNrOfEDCHMACdFlows,
maxNrOfEDCHMACdFlows-1,
maxNrOfE-RGCHs-E-HICHs,
maxNrofSiqSeqRGHI-1,
maxNoOfLogicalChannels,
maxNrOfEAGCHs.
maxNrOfRefBetas.
maxNrOfEAGCHCodes,
maxNrOfHS-DSCH-TBSs,
maxNrOfHS-DSCH-TBSs-HS-SCCHless,
maxNrOfEHICHCodes,
maxNrOfCommonMACFlows,
maxNrOfCommonMACFlows-1,
maxNrOfPagingMACFlow,
maxNrOfPagingMACFlow-1,
maxNrOfcommonMACQueues,
maxNrOfpaqinqMACQueues,
maxNrOfHS-DSCHTBSsE-PCH,
maxGANSSSat,
maxNoGANSS,
maxSqnType,
maxHSDPAFrequency,
maxHSDPAFrequency-1,
maxGANSSSatAlmanac,
maxGANSSClockMod,
maxNrOfEDCHRLs,
maxCellinNodeB,
maxERNTItoRelease,
maxNrOfCommonEDCH,
maxFrequencyinCell-1,
maxNrOfCommonMACFlowsLCR,
maxNrOfCommonMACFlowsLCR-1,
maxNrOfHSSCCHsLCR,
maxNrOfEDCHMACdFlowsLCR,
maxNrOfEDCHMACdFlowsLCR-1,
maxNrOfEAGCHsLCR,
maxNrOfEHICHsLCR,
maxnrofERUCCHsLCR,
maxNrOfHSPDSCHs,
maxFrequencyinCell,
maxNrOfHSDSCH-1,
maxNrOfHSDSCH.
maxGANSS-1,
maxNoOfTBSs-Mapping-HS-DSCH-SPS,
```

```
maxNoOfTBSs-Mapping-HS-DSCH-SPS-1,
maxNoOfHS-DSCH-TBSsLCR.
maxNoOfRepetition-Period-LCR.
maxNoOfRepetitionPeriod-SPS-LCR-1,
maxNoOf-HS-SICH-SPS.
maxNoOf-HS-SICH-SPS-1,
maxNoOfNon-HS-SCCH-Assosiated-HS-SICH,
maxNoOfNon-HS-SCCH-Assosiated-HS-SICH-Ext,
maxMBMSServiceSelect,
maxNrOfCellPortionsPerCellLCR,
maxNrOfCellPortionsPerCellLCR-1,
maxNrOfEDCH-1,
maxNoOfCommonH-RNTI.
maxNrOfCommonMACFlowsLCRExt.
maxofERNTI.
maxNrOfDCHMeasurementOccasionPatternSequence,
id-BroadcastCommonTransportBearerIndication,
id-MessageStructure,
id-ReportCharacteristicsType-OnModification,
id-Rx-Timing-Deviation-Value-LCR,
id-SFNSFNMeasurementValueInformation.
id-SFNSFNMeasurementThresholdInformation.
id-TUTRANGPSMeasurementValueInformation,
id-TUTRANGPSMeasurementThresholdInformation.
id-TypeOfError,
id-transportlayeraddress,
id-bindingID,
id-Angle-Of-Arrival-Value-LCR,
id-SyncDLCodeIdThreInfoLCR,
id-neighbouringTDDCellMeasurementInformationLCR,
id-HS-SICH-Reception-Quality,
id-HS-SICH-Reception-Quality-Measurement-Value,
id-Initial-DL-Power-TimeslotLCR-InformationItem,
id-Maximum-DL-Power-TimeslotLCR-InformationItem,
id-Minimum-DL-Power-TimeslotLCR-InformationItem,
id-Received-total-wide-band-power-For-CellPortion,
id-Received-total-wide-band-power-For-CellPortion-Value,
id-Transmitted-Carrier-Power-For-CellPortion,
id-Transmitted-Carrier-Power-For-CellPortion-Value,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue,
id-HS-DSCHRequiredPowerValueInformation,
id-HS-DSCHProvidedBitRateValueInformation.
id-HS-DSCHRequiredPowerValue,
id-HS-DSCHRequiredPowerValue-For-Cell-Portion,
id-HS-DSCHRequiredPowerValueInformation-For-CellPortion,
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion,
id-HSDSCH-MACdPDUSizeFormat,
id-HS-PDSCH-Code-Change-Grant,
id-HS-PDSCH-Code-Change-Indicator,
id-HS-DSCH-SPS-Operation-Indicator,
id-Best-Cell-Portions-Value,
id-Unidirectional-DCH-Indicator,
```

```
id-SAT-Info-Almanac-ExtItem,
id-TnlOos.
id-UpPTSInterferenceValue.
id-HARO-Preamble-Mode,
id-HARO-Preamble-Mode-Activation-Indicator.
id-DLTransmissionBranchLoadValue,
id-E-DCHProvidedBitRateValueInformation.
id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue,
id-HSSICH-SIRTarget,
id-PLCCH-Information-UL-TimeslotLCR-Info,
id-neighbouringTDDCellMeasurementInformation768,
id-Rx-Timing-Deviation-Value-768,
id-hsSCCH-Specific-Information-ResponseTDD768,
id-Rx-Timing-Deviation-Value-384-ext,
id-E-DCH-PowerOffset-for-SchedulingInfo,
id-Extended-Round-Trip-Time-Value,
id-ExtendedPropagationDelay,
id-HSSICH-TPC-StepSize,
id-RTWP-CellPortion-ReportingIndicator,
id-Received-Scheduled-EDCH-Power-Share-Value.
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value,
id-Received-Scheduled-EDCH-Power-Share,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion.
id-ueCapability-Info.
id-ContinuousPacketConnectivityHS-SCCH-less-Information,
id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response,
id-MIMO-ActivationIndicator,
id-MIMO-Mode-Indicator,
id-MIMO-N-M-Ratio,
id-Additional-failed-HS-SICH,
id-Additional-missed-HS-SICH,
id-Additional-total-HS-SICH,
id-Additional-HS-SICH-Reception-Quality-Measurement-Value,
id-LCRTDD-uplink-Physical-Channel-Capability,
id-SixteenOAM-UL-Operation-Indicator.
id-E-AGCH-Table-Choice,
id-E-TFCI-Boost-Information,
id-E-DPDCH-PowerInterpolation,
id-MaximumMACdPDU-SizeExtended,
id-GANSS-Common-Data,
id-GANSS-Information,
id-GANSS-Generic-Data,
id-TUTRANGANSSMeasurementThresholdInformation,
id-TUTRANGANSSMeasurementValueInformation.
id-Extended-RNC-ID,
id-HARQ-MemoryPartitioningInfoExtForMIMO,
id-Ext-Reference-E-TFCI-PO,
id-Ext-Max-Bits-MACe-PDU-non-scheduled,
id-TransportBearerNotSetupIndicator,
id-TransportBearerNotRequestedIndicator,
id-UARFCNforNt,
id-number-Of-Supported-Carriers,
id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR,
id-tSN-Length,
```

```
id-multicarrier-number,
id-Extended-HS-SICH-ID.
id-Default-Serving-Grant-in-DTX-Cycle2,
id-SixtyfourOAM-UsageAllowedIndicator,
id-SixtyfourOAM-DL-UsageIndicator,
id-IPMulticastDataBearerIndication,
id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory,
id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator,
id-Extended-E-HICH-ID-TDD,
id-E-DCH-MACdPDUSizeFormat,
id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD,
id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCRTDD,
id-E-PUCH-PowerControlGAP,
id-HSDSCH-TBSizeTableIndicator.
id-E-DCH-DL-Control-Channel-Change-Information,
id-E-DCH-DL-Control-Channel-Grant-Information,
id-DGANSS-Corrections-Reg,
id-UE-with-enhanced-HS-SCCH-support-indicator,
id-TransportBearerRequestIndicator,
id-EnhancedHSServingCC-Abort,
id-GANSS-Time-ID,
id-GANSS-AddIonoModelReq,
id-GANSS-EarthOrientParaReg.
id-GANSS-AddNavigationModelsReg.
id-GANSS-AddUTCModelsReq,
id-GANSS-AuxInfoReg,
id-GANSS-SBAS-ID,
id-GANSS-ID,
id-GANSS-Additional-Ionospheric-Model,
id-GANSS-Earth-Orientation-Parameters,
id-GANSS-Additional-Time-Models,
id-GANSS-Additional-Navigation-Models,
id-GANSS-Additional-UTC-Models,
id-GANSS-Auxiliary-Information,
id-GANSS-alm-keplerianNAVAlmanac,
id-GANSS-alm-keplerianReducedAlmanac,
id-GANSS-alm-keplerianMidiAlmanac,
id-GANSS-alm-keplerianGLONASS,
id-GANSS-alm-ecefSBASAlmanac,
id-EDCH-RACH-Report-Value,
id-EDCH-RACH-Report-IncrDecrThres,
id-EDCH-RACH-Report-ThresholdInformation,
id-MACes-Maximum-Bitrate-LCR,
id-E-AGCH-UE-Inactivity-Monitor-Threshold,
id-MultiCarrier-HSDSCH-Physical-Layer-Category,
id-MIMO-ReferenceSignal-InformationListLCR,
id-MIMO-SFMode-For-HSPDSCHDualStream,
id-MIMO-SFMode-Supported-For-HSPDSCHDualStream,
id-DL-RLC-PDU-Size-Format,
id-schedulingPriorityIndicator,
id-UE-SupportIndicatorExtension.
id-UE-AggregateMaximumBitRate-Enforcement-Indicator,
id-Single-Stream-MIMO-ActivationIndicator,
```

```
id-Single-Stream-MIMO-Mode-Indicator,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortion,
id-ULTimeslotISCPValue-For-CellPortion.
id-UpPTSInterferenceValue-For-CellPortion,
id-Best-Cell-Portions-ValueLCR.
id-Transmitted-Carrier-Power-For-CellPortion-ValueLCR,
id-Received-total-wide-band-power-For-CellPortion-ValueLCR,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue.
id-UL-TimeslotISCP-For-CellPortion-Value,
id-HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR,
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR,
id-E-DCHProvidedBitRateValueInformation-For-CellPortion,
id-UpPTSInterference-For-CellPortion-Value.
id-HS-DSCH-SPS-Reservation-Indicator,
id-E-DCH-SPS-Reservation-Indicator,
id-MultipleFreg-HARO-MemoryPartitioning-InformationList,
id-DiversityMode,
id-TransmitDiversityIndicator,
id-NonCellSpecificTxDiversity,
id-RepetitionPeriodIndex,
id-MidambleShiftLCR,
id-MaxHSDSCH-HSSCCH-Power-per-CELLPORTION,
id-Additional-EDCH-Preconfiguration-Information,
id-EDCH-Indicator.
id-Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext,
id-E-RNTI-List-Request,
id-E-RNTI-List,
id-UL-Synchronisation-Parameters-For-FACHLCR,
id-UE-TS0-CapabilityLCR,
id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext,
id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst-Ext,
id-DGNSS-ValidityPeriod.
id-AssociatedPhsicalChannelID.
id-PhysicalChannelID-for-CommonERNTI-RequestedIndicator,
id-Initial-DL-Transmission-Power,
id-Maximum-DL-Power,
id-Minimum-DL-Power,
id-Multicell-EDCH-InformationItemIEs,
id-Multicell-EDCH-RL-Specific-InformationItemIEs,
id-ContinuousPacketConnectivityDTX-DRX-Information,
id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup,
id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList,
id-Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext,
id-CommonMACFlow-Specific-InfoList-ResponseLCR-Ext,
id-Enabling-Delay-Ext-LCR,
id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext,
id-CommonEDCH-AdditionalTransmissionBackOff,
id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order,
id-Common-E-DCH-Implicit-Release-Timer,
id-E-AGCH-PowerOffset,
id-E-RGCH-PowerOffset,
id-E-HICH-PowerOffset
```

```
FROM NBAP-Constants
    Criticality,
    ProcedureID.
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM NBAP-CommonDataTypes
    NBAP-PROTOCOL-IES,
    ProtocolExtensionContainer{},
    ProtocolIE-Single-Container{},
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
AckNack-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
Ack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. TS 25.213 [9] subclause 4.2.1
Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
-- According to mapping in TS 25.133 [22].
ActivationInformation ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF ActivationInformationItem
ActivationInformationItem ::= SEQUENCE {
    uU-ActivationState Uu-ActivationState,
                                                    ProtocolExtensionContainer { { ActivationInformationItem-ExtIEs} }
    iE-Extensions
   OPTIONAL,
ActivationInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Adaptive-Special-Burst-Power-CapabilityLCR ::= ENUMERATED
    adaptive-Special-Burst-Power-Capable,
    adaptive-Special-Burst-Power-Not-Capable
Additional-EDCH-Setup-Info ::=SEQUENCE{
    multicell-EDCH-Transport-Bearer-Mode
                                                                            Multicell-EDCH-Transport-Bearer-Mode,
    additional-EDCH-Cell-Information-Setup
                                                                            Additional-EDCH-Cell-Information-Setup,
                                    ProtocolExtensionContainer { { Additional-EDCH-Setup-Info-ExtIEs} } OPTIONAL,
    iE-Extensions
Additional-EDCH-Setup-Info-ExtIEs
                                  NBAP-PROTOCOL-EXTENSION ::= {
```

```
Multicell-EDCH-Transport-Bearer-Mode ::= ENUMERATED {
    separate-Iub-Transport-Bearer-Mode,
    uL-Flow-Multiplexing-Mode
Additional-EDCH-Cell-Information-Setup ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Setup-Cell-Information
Additional-EDCH-FDD-Setup-Cell-Information ::=SEQUENCE{
    additional-EDCH-UL-DPCH-Information-Setup
                                                                    Additional-EDCH-UL-DPCH-Information-Setup,
    additional-EDCH-RL-Specific-Information-To-Setup
                                                                    Additional-EDCH-RL-Specific-Information-To-Setup-List,
    additional-EDCH-FDD-Information
                                                                    Additional-EDCH-FDD-Information
                                                                                                                        OPTIONAL,
    additional-EDCH-F-DPCH-Information-Setup
                                                                    Additional-EDCH-F-DPCH-Information,
                                                                    Multicell-EDCH-Information
    multicell-EDCH-Information
                                                                                                                        OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { { Additional-EDCH-FDD-Setup-Cell-Information-ExtIEs} } OPTIONAL,
    . . .
Additional-EDCH-FDD-Setup-Cell-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-UL-DPCH-Information-Setup
                                          ::=SEQUENCE{
    ul-ScramblingCode
                                           UL-ScramblingCode,
    ul-SIR-Target
                                           UL-SIR,
   iE-Extensions
                                   ProtocolExtensionContainer { { Additional-EDCH-UL-DPCH-Information-Setup-ExtIEs} } OPTIONAL,
Additional-EDCH-UL-DPCH-Information-Setup-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-F-DPCH-Information ::=SEQUENCE{
    fdd-TPC-DownlinkStepSize
                                       FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                       LimitedPowerIncrease,
    innerLoopDLPCStatus
                                       InnerLoopDLPCStatus,
                                   ProtocolExtensionContainer { { Additional-EDCH-F-DPCH-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
Additional-EDCH-F-DPCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-RL-Specific-Information-To-Setup-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF Additional-EDCH-RL-Specific-Information-To-
Setup-ItemIEs
Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs
                                                           ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                       RL-ID,
```

```
C-TD
    C-TD
                                                                                     OPTIONAL,
    firstRLS-indicator
                                        FirstRLS-Indicator.
    propagationDelay
                                        PropagationDelay
                                                                                     OPTIONAL.
    dl-CodeInformation
                                        FDD-DL-CodeInformation.
    initialDL-transmissionPower
                                        DL-Power.
    maximumDL-power
                                        DL-Power,
    minimumDL-power
                                        DL-Power,
    f-DPCH-SlotFormat
                                        F-DPCH-SlotFormat
                                                                                     OPTIONAL.
    e-RNTT
                                        E-RNTT
                                                                                     OPTIONAL,
    multicell-EDCH-RL-Specific-Information Multicell-EDCH-RL-Specific-Information OPTIONAL,
                                        ProtocolExtensionContainer { { Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-To-Add-List
                                              ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-To-Add-ItemIEs
Additional-EDCH-Cell-Information-To-Add-ItemIEs ::=SEQUENCE{
    additional-EDCH-RL-Specific-Information-To-Add-ItemIEs Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs,
    additional-EDCH-FDD-Information
                                                            Additional-EDCH-FDD-Information
                                                                                                                     OPTIONAL,
                                                            Multicell-EDCH-Information
    multicell-EDCH-Information
                                                                                                                     OPTIONAL,
                                        ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-To-Add-ItemIEs-ExtIEs} } OPTIONAL,
    iE-Extensions
Additional-EDCH-Cell-Information-To-Add-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs ::= SEQUENCE (SIZE (1.. maxNrOfEDCHRLs)) OF EDCH-Additional-RL-Specific-Information-To-Add-
List
EDCH-Additional-RL-Specific-Information-To-Add-List ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID,
    c-ID
                                        C-ID,
    dl-CodeInformation
                                        FDD-DL-CodeInformation,
    initialDL-transmissionPower
                                        DL-Power
                                                                OPTIONAL,
    maximumDL-power
                                        DL-Power
                                                                OPTIONAL,
    minimumDL-power
                                        DL-Power
                                                                OPTIONAL,
                                        F-DPCH-SlotFormat
                                                                OPTIONAL,
    f-DPCH-SlotFormat
    multicell-EDCH-RL-Specific-Information Multicell-EDCH-RL-Specific-Information
                                                                                         OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { EDCH-Additional-RL-Specific-Information-To-Add-List-ExtIEs} } OPTIONAL.
EDCH-Additional-RL-Specific-Information-To-Add-List-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-RL-Specific-Information-To-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF Additional-EDCH-RL-Specific-Information-To-
Modify-ItemIEs
```

```
Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs ::=SEQUENCE{
    eDCH-Additional-RL-ID
                                        RL-ID.
    dl-CodeInformation
                                        FDD-DL-CodeInformation OPTIONAL,
    maximumDL-power
                                        DL-Power
                                                                OPTIONAL.
    minimumDL-power
                                        DL-Power
                                                                OPTIONAL,
    f-DPCH-SlotFormat
                                        F-DPCH-SlotFormat
                                                                OPTIONAL.
    multicell-EDCH-RL-Specific-Information
                                                Multicell-EDCH-RL-Specific-Information OPTIONAL, iE-Extensions
    ProtocolExtensionContainer { { Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs-ExtIEs} } OPTIONAL,
Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-FDD-Information ::=SEQUENCE{
    additional-EDCH-MAC-d-Flows-Specific-Information
                                                        Additional-EDCH-MAC-d-Flows-Specific-Info-List
                                                                                                                     OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                                                                                                                     OPTIONAL,
    e-DCH-Maximum-Bitrate
                                                    E-DCH-Maximum-Bitrate
                                                                                                                     OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                    E-DCH-Processing-Overload-Level
                                                                                                                     OPTIONAL,
    e-DCH-Min-Set-E-TFCI
                                                    E-TFCI
    OPTIONAL,
                                        ProtocolExtensionContainer { { Additional-EDCH-FDD-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
Additional-EDCH-FDD-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-MAC-d-Flows-Specific-Info-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Additional-EDCH-MAC-d-Flows-Specific-Info
Additional-EDCH-MAC-d-Flows-Specific-Info ::= SEOUENCE {
    e-DCH-MACdFlow-ID
                                                    E-DCH-MACdFlow-ID,
    bindingID
                                                    BindingID
            OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
           OPTIONAL,
                                                    ProtocolExtensionContainer { { Additional-EDCH-MAC-d-Flows-Specific-Info-ExtIEs} }
    iE-Extensions
        OPTIONAL.
    . . .
Additional-EDCH-MAC-d-Flows-Specific-Info-ExtIEs
                                                   NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Information-Response-ItemIEs
Additional-EDCH-FDD-Information-Response-ItemIEs
                                                    ::=SEOUENCE{
    eDCH-Additional-RL-Specific-Information-Response
                                                                            EDCH-Additional-RL-Specific-Information-Response-List
                                                                                                                                        OPTIONAL,
```

```
additional-EDCH-MAC-d-Flow-Specific-Information-Response
                                                                            Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List
    OPTIONAL.
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                                            HARO-Process-Allocation-2ms-EDCH
    OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { Additional-EDCH-FDD-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,
Additional-EDCH-FDD-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
EDCH-Additional-RL-Specific-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF EDCH-Additional-RL-Specific-Information-
Response-ItemIEs
EDCH-Additional-RL-Specific-Information-Response-ItemIEs
                                                            ::=SEOUENCE{
    eDCH-Additional-RL-ID
    received-total-wide-band-power
                                                    Received-total-wide-band-power-Value,
    dL-PowerBalancing-ActivationIndicator
                                                    DL-PowerBalancing-ActivationIndicator
                                                                                            OPTIONAL,
    rL-Set-ID
                                                    RL-Set-ID,
    e-DCH-RL-Set-ID
                                                    RL-Set-ID,
    e-DCH-FDD-DL-Control-Channel-Information
                                                    E-DCH-FDD-DL-Control-Channel-Information,
                                    ProtocolExtensionContainer { { EDCH-Additional-RL-Specific-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
EDCH-Additional-RL-Specific-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-Response-RLReconf-List::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Information-Response-RLReconf-
Items
Additional-EDCH-FDD-Information-Response-RLReconf-Items::=SEQUENCE{
    additional-EDCH-FDD-Information-Response-ItemIEs
                                                                    Additional-EDCH-FDD-Information-Response-ItemIEs
    OPTIONAL,
    additional-Modififed-EDCH-FDD-Information-Response-ItemIEs
                                                                    Additional-Modififed-EDCH-FDD-Information-Response-ItemIEs
                                                                                                                                        OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {
                                                                   Additional-EDCH-FDD-Information-Response-RLReconf-Items-ExtIEs} } OPTIONAL,
Additional-EDCH-FDD-Information-Response-RLReconf-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
Additional-Modififed-EDCH-FDD-Information-Response-ItemIEs ::=SEQUENCE{
    eDCH-Additional-Modified-RL-Specific-Information-Response
                                                                    EDCH-Additional-Modified-RL-Specific-Information-Response-List
    OPTIONAL,
    additional-EDCH-MAC-d-Flow-Specific-Information-Response
                                                                    Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List
    OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                                    HARO-Process-Allocation-2ms-EDCH
       OPTIONAL,
                                    ProtocolExtensionContainer { Additional-Modififed-EDCH-FDD-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
```

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```
Additional-Modififed-EDCH-FDD-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
EDCH-Additional-Modified-RL-Specific-Information-Response-List ::= SEQUENCE (SIZE (1.. maxNrOfEDCHRLs)) OF EDCH-Additional-Modified-RL-Specific-
Information-Response-List-Items
EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items
                                                                        ::=SEOUENCE{
    eDCH-Additional-RL-ID
    dL-PowerBalancing-UpdatedIndicator
                                                    DL-PowerBalancing-UpdatedIndicator
                                                                                                OPTIONAL,
    e-DCH-FDD-DL-Control-Channel-Information
                                                    E-DCH-FDD-DL-Control-Channel-Information
                                                                                                OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { { EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items-ExtIEs} }
OPTIONAL,
EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Additional-EDCH-MAC-d-Flows-Specific-
Info-Response
Additional-EDCH-MAC-d-Flows-Specific-Info-Response ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                    E-DCH-MACdFlow-ID,
    bindingID
                                                    BindingID
           OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
           OPTIONAL,
                                                    ProtocolExtensionContainer { { Additional-EDCH-MAC-d-Flows-Specific-Info-Response-ExtIEs} }
    iE-Extensions
               OPTIONAL,
Additional-EDCH-MAC-d-Flows-Specific-Info-Response-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-Response-RL-Add-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-Response-RL-Add-
ItemIEs
Additional-EDCH-Cell-Information-Response-RL-Add-ItemIES ::=SEQUENCE{
                                                               Additional-EDCH-FDD-Information-Response-ItemIEs
    additional-EDCH-FDD-Information-Response
                                                                                                                        OPTIONAL,
    additional-EDCH-Serving-Cell-Change-Information-Response E-DCH-Serving-Cell-Change-Info-Response
                                                                                                                               OPTIONAL,
   iE-Extensions
                                   ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Response-RL-Add-ItemIEs-ExtIEs} } OPTIONAL,
Additional-EDCH-Cell-Information-Response-RL-Add-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
Additional-EDCH-Cell-Information-ConfigurationChange-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-ConfigurationChange-Info-
ItemIEs
Additional-EDCH-ConfigurationChange-Info-ItemIEs
                                                    ::=SEOUENCE{
    additional-EDCH-UL-DPCH-Information-Modify
                                                                        Additional-EDCH-UL-DPCH-Information-Modify
                                                                                                                        OPTIONAL.
    additional-EDCH-RL-Specific-Information-To-Add
                                                                        Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs OPTIONAL,
    additional-EDCH-RL-Specific-Information-To-Modify
                                                                        Additional-EDCH-RL-Specific-Information-To-Modify-List OPTIONAL,
    additional-EDCH-FDD-Information-To-Modify
                                                                        Additional-EDCH-FDD-Information
                                                                                                                        OPTIONAL,
    additional-EDCH-F-DPCH-Information-Modify
                                                                        Additional-EDCH-F-DPCH-Information
                                                                                                                        OPTIONAL,
                                                                        Multicell-EDCH-Information
    multicell-EDCH-Information
                                                                                                                        OPTIONAL,
                                    ProtocolExtensionContainer { { Additional-EDCH-ConfigurationChange-Info-ItemIEs-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-ConfigurationChange-Info-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-UL-DPCH-Information-Modify
                                                ::=SEQUENCE{
    ul-ScramblingCode
                                            UL-ScramblingCode
                                                                OPTIONAL,
    ul-SIR-Target
                                            UL-SIR
                                                                OPTIONAL.
                                            ProtocolExtensionContainer { Additional-EDCH-UL-DPCH-Information-Modify-ExtIEs} } OPTIONAL,
    iE-Extensions
Additional-EDCH-UL-DPCH-Information-Modify-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-Cell-Information-Removal-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-Removal-Info-ItemIEs
Additional-EDCH-Cell-Information-Removal-Info-ItemIEs
                                                       ::=SEQUENCE{
    rL-on-Secondary-UL-Frequency
                                                            RL-on-Secondary-UL-Frequency,
                                    ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Removal-Info-ItemIEs-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Additional-EDCH-Cell-Information-Removal-Info-ItemIEs-ExtIEs
                                                                NBAP-PROTOCOL-EXTENSION ::=
RL-on-Secondary-UL-Frequency ::= ENUMERATED
    remove,
Additional-EDCH-FDD-Update-Information ::=SEOUENCE{
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                                    HARO-Process-Allocation-2ms-EDCH
           OPTIONAL,
    additional-EDCH-DL-Control-Channel-Change-Information
                                                                    Additional-EDCH-DL-Control-Channel-Change-Information-List
       OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { Additional-EDCH-FDD-Update-Information-ExtIEs} } OPTIONAL,
```

```
Additional-EDCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Additional-EDCH-DL-Control-Channel-Change-Information-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF Additional-EDCH-DL-Control-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Channel-Chann
Info-ItemIEs
Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs ::=SEQUENCE{
          eDCH-Additional-RL-ID
                                                                                               RL-ID,
                                                                                               ProtocolExtensionContainer { { Additional-EDCH-DL-Control-Channel-Channel-Info-ItemIEs-ExtIEs} } OPTIONAL,
          iE-Extensions
          . . .
Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AdditionalMeasurementValueList::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF AdditionalMeasurementValue
AdditionalMeasurementValue ::= SEQUENCE {
          11ARFCN
                                                                                                         UARFCN,
          timeSlotMeasurementValueListLCR
                                                                                                         TimeSlotMeasurementValueListLCR,
          iE-Extensions
                                                                                                         ProtocolExtensionContainer { {AdditionalMeasurementValueList-ExtIEs} } OPTIONAL,
AdditionalMeasurementValueList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AdditionalTimeSlotListLCR::= SEQUENCE (SIZE (0..maxFrequencyinCell-1)) OF AdditionalTimeSlotLCR
AdditionalTimeSlotLCR ::= SEQUENCE {
          uARFCN
                                                                                               UARFCN,
          timeslot-InitiatedListLCR
                                                                                                                  TimeSlot-InitiatedListLCR
                                                                                                                                                                                        OPTIONAL,
          iE-Extensions
                                                                                                                  ProtocolExtensionContainer { {AdditionalTimeSlotLCR-ExtIEs} } OPTIONAL,
AdditionalTimeSlotLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AddorDeleteIndicator ::= ENUMERATED {
          add,
          delete
Active-Pattern-Sequence-Information ::= SEQUENCE {
```

```
cMConfigurationChangeCFN
                                                             CFN,
                                                Transmission-Gap-Pattern-Sequence-Status-List OPTIONAL,
    transmission-Gap-Pattern-Sequence-Status
                                                ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
Active-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        t.GPRC
                        TGPRC,
        t.GCFN
                        CFN.
                            ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
        iE-Extensions
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.
AICH-TransmissionTiming ::= ENUMERATED {
    v1
AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel
                                PriorityLevel,
    pre-emptionCapability
                                Pre-emptionCapability,
    pre-emptionVulnerability
                                Pre-emptionVulnerability,
    iE-Extensions
                                ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AlternativeFormatReportingIndicator ::= ENUMERATED {
   alternativeFormatAllowed,...
Angle-Of-Arrival-Value-LCR ::= SEQUENCE
    aOA-LCR
                                AOA-LCR,
```

```
aOA-LCR-Accuracy-Class
                         AOA-LCR-Accuracy-Class,
   iE-Extensions
                         ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
Angle-Of-Arrival-Value-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AOA-LCR := INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD
AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,g,h,...}
AvailabilityStatus ::= ENUMERATED {
   empty,
   in-test,
   failed,
   power-off,
   off-line,
   off-duty,
   dependency,
   degraded,
   not-installed.
   log-full,
    ._____
-- -----
BCCH-Specific-HSDSCH-RNTI-Information::= SEQUENCE {
   bCCH-Specific-HSDSCH-RNTI
                                         HSDSCH-RNTI,
   hSSCCH-Power
                                         DL-Power,
   hSPDSCH-Power
                                         DL-Power,
                                         iE-Extensions
   OPTIONAL,
BCCH-Specific-HSDSCH-RNTI-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
BCCH-Specific-HSDSCH-RNTI-InformationLCR::= SEQUENCE
   bCCH-Specific-HSDSCH-RNTI
                                         HSDSCH-RNTI,
   hSSCCH-Power
                                         DL-Power.
   hSPDSCH-Power
                                         DL-Power,
   iE-Extensions
                                         OPTIONAL,
```

```
BCCH-Specific-HSDSCH-RNTI-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed
Best-Cell-Portions-Value::= SEOUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Best-Cell-Portions-Item
Best-Cell-Portions-Item ::= SEQUENCE {
    cellPortionID
                               CellPortionID,
    sIRValue
                               SIR-Value,
                               ProtocolExtensionContainer { { Best-Cell-Portions-Item-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
Best-Cell-Portions-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Best-Cell-Portions-ValueLCR::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF Best-Cell-Portions-ItemLCR
Best-Cell-Portions-ItemLCR ::= SEQUENCE {
    cellPortionLCRID
                      CellPortionLCRID,
    rSCPValue
                                   RSCP-Value,
                             ProtocolExtensionContainer { { Best-Cell-Portions-ItemLCR-ExtIEs} }
    iE-Extensions
                                                                                                                   OPTIONAL,
Best-Cell-Portions-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BindingID ::= OCTET STRING (SIZE (1..4, ...))
-- If the Binding ID includes a UDP port, the UDP port is included in octet 1 and 2. The first octet of
-- the UDP port field is included in the first octet of the Binding ID.
BetaCD ::= INTEGER (0..15)
BlockingPriorityIndicator ::= ENUMERATED {
    high,
   normal,
    low,
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.
SCTD-Indicator ::= ENUMERATED {
```

```
active,
    inactive
BundlingModeIndicator ::= ENUMERATED
   bundling,
   no-bundling
BroadcastCommonTransportBearerIndication ::= SEQUENCE {
    commonTransportChannelID
                                      CommonTransportChannelID,
                                      C-ID,
                                      ProtocolExtensionContainer { { BroadcastCommonTransportBearerIndication-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
BroadcastCommonTransportBearerIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BroadcastReference ::= BIT STRING (SIZE (24))
-- ------
-- ------
Cause ::= CHOICE {
    radioNetwork
                          CauseRadioNetwork,
    transport
                       CauseTransport,
   protocol
                          CauseProtocol,
                          CauseMisc,
   misc
CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    . . .
CauseProtocol ::= ENUMERATED {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    abstract-syntax-error-falsely-constructed-message,
```

```
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID.
    cell-not-available,
    power-level-not-supported,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    requested-tx-diversity-mode-not-supported,
    unspecified,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    s-cpich-not-supported,
    combining-not-supported,
    ul-sf-not-supported,
    dl-SF-not-supported,
    common-transport-channel-type-not-supported,
    dedicated-transport-channel-type-not-supported,
    downlink-shared-channel-type-not-supported,
    uplink-shared-channel-type-not-supported,
    cm-not-supported,
    tx-diversity-no-longer-supported,
    unknown-Local-Cell-ID,
    . . . ,
    number-of-UL-codes-not-supported,
    information-temporarily-not-available,
    information-provision-not-supported-for-the-object,
    cell-synchronisation-not-supported,
    cell-synchronisation-adjustment-not-supported,
    dpc-mode-change-not-supported,
    iPDL-already-activated,
    iPDL-not-supported,
    iPDL-parameters-not-available,
    frequency-acquisition-not-supported,
    power-balancing-status-not-compatible,
    requested-typeofbearer-re-arrangement-not-supported,
    signalling-Bearer-Re-arrangement-not-supported,
    bearer-Re-arrangement-needed,
    delayed-activation-not-supported,
    rl-timing-adjustment-not-supported,
    mich-not-supported,
    f-DPCH-not-supported,
    modification-period-not-available,
    pLCCH-not-supported,
    continuous-packet-connectivity-DTX-DRX-operation-not-available,
```

```
continuous-packet-connectivity-UE-DTX-Cycle-not-available,
    mIMO-not-available.
    e-DCH-MACdPDU-SizeFormat-not-available.
    multi-Cell-operation-not-available,
    semi-Persistent-scheduling-not-supported,
    continuous-Packet-Connectivity-DRX-not-supported,
    continuous-Packet-Connectivity-DRX-not-available,
    sixtvfourOAM-DL-and-MIMO-Combined-not-available,
    s-cpich-power-offset-not-available,
    tx-diversity-for-mimo-on-DL-control-channels-not-available,
    single-Stream-MIMO-not-available,
    multi-Cell-operation-with-MIMO-not-available,
    multi-Cell-operation-with-Single-Stream-MIMO-not-available,
    cellSpecificTxDiversityHandlingForMultiCellOperationNotAvailable,
    multi-Cell-EDCH-operation-not-available
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
CCTrCH-ID ::= INTEGER (0..15)
Cell-Capability-Container ::= BIT STRING (SIZE (128))
-- First bit: Cell Specific Tx Diversity Handling For Multi Cell Operation Capability
-- Second bit: Multi Cell and MIMO Capability
-- Third bit: Multi Cell and Single Stream MIMO Capability
-- Fourth bit: Multi Cell E-DCH Capability
-- Fifth bit: Separate Iub Transport Bearer Capability
-- Sixth bit: E-DCH UL Flow Multiplexing Capability
-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.
Cell-ERNTI-Status-Information
                                    ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF Cell-ERNTI-Status-Information-Item
Cell-ERNTI-Status-Information-Item ::= SEQUENCE {
    c-ID
                                                    C-ID,
    vacant-ERNTI
                                                    Vacant-ERNTI,
Vacant-ERNTI
                    ::= SEOUENCE (SIZE (1..maxERNTItoRelease)) OF E-RNTI
CellParameterID ::= INTEGER (0..127,...)
CellPortionID ::= INTEGER (0..maxNrOfCellPortionsPerCell-1,...)
CellPortionLCRID ::= INTEGER (0..maxNrOfCellPortionsPerCellLCR-1,...)
```

```
CellPortion-CapabilityLCR ::= ENUMERATED {
    cell-portion-capable,
    cell-portion-non-capable
CellSyncBurstCode ::= INTEGER(0..7, ...)
CellSyncBurstCodeShift ::= INTEGER(0..7)
CellSyncBurstRepetitionPeriod ::= INTEGER (0..4095)
CellSyncBurstSIR ::= INTEGER (0..31)
CellSyncBurstTiming ::= CHOICE {
    initialPhase
                             INTEGER (0..1048575,...),
    steadyStatePhase
                             INTEGER (0..255,...)
CellSyncBurstTimingLCR ::= CHOICE {
    initialPhase
                             INTEGER (0..524287,...),
    steadyStatePhase
                             INTEGER (0..127,...)
CellSyncBurstTimingThreshold ::= INTEGER(0..254)
CFN ::= INTEGER (0..255)
ChipOffset ::= INTEGER (0..38399)
-- Unit Chip
C-ID ::= INTEGER (0..65535)
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    . . .
CodeRate ::= INTEGER (0..63)
CodeRate-short ::= INTEGER (0..10)
\texttt{CommonChannelsCapacityConsumptionLaw} \ ::= \ \texttt{SEQUENCE} \ (\texttt{SIZE} \ (\texttt{1..maxNrOfSF})) \ \texttt{OF}
    SEQUENCE {
        dl-Cost
                     INTEGER (0..65535),
        ul-Cost INTEGER (0..65535),
        iE-Extensions
                             ProtocolExtensionContainer { { CommonChannelsCapacityConsumptionLaw-ExtIEs } }
                                                                                                                               OPTIONAL,
CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
Common-EDCH-Capability ::= ENUMERATED {
    common-EDCH-capable,
    common-EDCH-non-capable
Common-E-DCH-HSDPCCH-Capability ::= ENUMERATED {
    hSDPCCH-non-capable,
    aCK-NACK-capable,
    aCK-NACK-CQI-capable
Common-EDCH-System-InformationFDD ::= SEQUENCE {
    common-E-DCH-UL-DPCH-Information
                                                     Common-E-DCH-UL-DPCH-InfoItem
                                                                                                                                          OPTIONAL,
    common-E-DCH-EDPCH-Information
                                                     Common-E-DCH-EDPCH-InfoItem
                                                                                                                                          OPTIONAL,
    common-E-DCH-Information
                                                     Common-E-DCH-InfoItem
                                                                                                                                          OPTIONAL,
                                                                                                                                  OPTIONAL,
    common-E-DCH-HSDPCCH-Information
                                                     Common-E-DCH-HSDPCCH-InfoItem
    common-E-DCH-Preamble-Control-Information
                                                     Common-E-DCH-Preamble-Control-InfoItem
                                                                                                                                          OPTIONAL,
                                                     Common-E-DCH-FDPCH-InfoItem
    common-E-DCH-FDPCH-Information
                                                                                                                                          OPTIONAL,
    common-E-DCH-E-AGCH-ChannelisationCodeNumber
                                                     FDD-DL-ChannelisationCodeNumber
                                                                                                                                          OPTIONAL,
    common-E-DCH-Resource-Combination-Information
                                                     Common-E-DCH-Resource-Combination-InfoList
                                                                                                                                          OPTIONAL,
    ul-common-E-DCH-MACflow-Specific-Information
                                                     Ul-common-E-DCH-MACflow-Specific-InfoList
                                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { Common-EDCH-System-InformationFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
Common-EDCH-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-E-RNTI-List-Request
                                        CRITICALITY ignore EXTENSION NULL
                                                                                              PRESENCE optional }
    {ID id-E-AGCH-PowerOffset
                                        CRITICALITY ignore EXTENSION E-AGCH-PowerOffset
                                                                                              PRESENCE optional
                                                                                              PRESENCE optional }
    {ID id-E-RGCH-PowerOffset
                                        CRITICALITY ignore EXTENSION E-RGCH-PowerOffset
    {ID id-E-HICH-PowerOffset
                                        CRITICALITY ignore EXTENSION E-HICH-PowerOffset
                                                                                              PRESENCE optional },
    . . .
Common-E-DCH-UL-DPCH-InfoItem ::= SEQUENCE {
    uL-SIR-Target
                                        UL-SIR,
    dPC-Mode
                                                                     OPTIONAL,
                                        ProtocolExtensionContainer { Common-E-DCH-UL-DPCH-InfoItem-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
Common-E-DCH-UL-DPCH-InfoItem-ExtIES NBAP-PROTOCOL-EXTENSION ::=
Common-E-DCH-EDPCH-InfoItem ::= SEQUENCE {
    maxSet-E-DPDCHs
                                                 Max-Set-E-DPDCHs,
    ul-PunctureLimit
                                                 PunctureLimit,
    e-TFCS-Information
                                                 E-TFCS-Information,
    e-TTI
                                                 E-TTI,
```

```
e-DPCCH-PO
                                                 E-DPCCH-PO,
    e-RGCH-2-IndexStepThreshold
                                                 E-RGCH-2-IndexStepThreshold
                                                                                                  OPTIONAL,
    e-RGCH-3-IndexStepThreshold
                                                 E-RGCH-3-IndexStepThreshold
                                                                                                  OPTIONAL,
    hARO-Info-for-E-DCH
                                                 HARO-Info-for-E-DCH,
    iE-Extensions
                                                 ProtocolExtensionContainer { Common-E-DCH-EDPCH-InfoItem-ExtIEs} }
    OPTIONAL,
Common-E-DCH-EDPCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-E-DCH-InfoItem
                         ::= SEQUENCE {
    e-DCH-Reference-Power-Offset
                                                 E-DCH-Reference-Power-Offset
                                                                                                  OPTIONAL,
    e-DCH-PowerOffset-for-SchedulingInfo
                                                 E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                  OPTIONAL,
    max-EDCH-Resource-Allocation-for-CCCH
                                                 Max-EDCH-Resource-Allocation-for-CCCH,
    max-Period-for-Collistion-Resolution
                                                 Max-Period-for-Collistion-Resolution,
    max-TB-Sizes
                                                     Max-TB-Sizes
                                                                                                                          OPTIONAL,
    common-E-DCH-ImplicitRelease-Indicator
                                                 BOOLEAN,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Common-E-DCH-InfoItem-ExtIEs} }
    OPTIONAL,
    . . .
Common-E-DCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-CommonEDCH-AdditionalTransmissionBackOff
                                                         CRITICALITY ignore EXTENSION CommonEDCH-AdditionalTransmissionBackOff PRESENCE optional }
    { ID id-Common-E-DCH-Implicit-Release-Timer
                                                         CRITICALITY ignore EXTENSION Common-E-DCH-Implicit-Release-Timer
                                                                                                                                  PRESENCE optional },
CommonEDCH-AdditionalTransmissionBackOff::= INTEGER (0..15,...)
Common-E-DCH-HSDPCCH-InfoItem
                                 ::= SEQUENCE {
    ackNackRepetitionFactor
                                                 AckNack-RepetitionFactor.
    ackPowerOffset
                                                 Ack-Power-Offset,
                                                 Nack-Power-Offset,
    nackPowerOffset
    common-E-DCH-COI-Info
                                                 Common-E-DCH-COI-Info
                                                                                              OPTIONAL,
                                                 ProtocolExtensionContainer { Common-E-DCH-HSDPCCH-InfoItem-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
Common-E-DCH-HSDPCCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
Common-E-DCH-COI-Info
                         ::= SEQUENCE
    cqiFeedback-CycleK
                                                 CQI-Feedback-Cycle,
    cqiRepetitionFactor
                                                 CQI-RepetitionFactor
                                                                                              OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k is greater than \mathbf{0}
```

```
cqiPowerOffset
                                                 CQI-Power-Offset,
    measurement-Power-Offset
                                                 Measurement-Power-Offset,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Common-E-DCH-COI-Info-ExtIEs} }
    OPTIONAL,
    . . .
Common-E-DCH-CQI-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-E-DCH-Preamble-Control-InfoItem ::= SEQUENCE
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    common-E-DCH-PreambleSignatures
                                                 PreambleSignatures,
    scramblingCodeNumber
                                                 ScramblingCodeNumber,
    preambleThreshold
                                                 PreambleThreshold,
    e-AI-Indicator
                                                 E-AI-Indicator
                                                                                      OPTIONAL,
    common-E-DCH-AICH-Information
                                                 Common-E-DCH-AICH-Information
                                                                                                                      OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Common-E-DCH-Preamble-Control-InfoItem-ExtIEs} }
        OPTIONAL,
Common-E-DCH-Preamble-Control-InfoItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Common-E-DCH-AICH-Information
                                 ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    aICH-TransmissionTiming
                                                 AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    aICH-Power
                                                 AICH-Power,
    sTTD-Indicator
                                                 STTD-Indicator,
                                                 ProtocolExtensionContainer { { Common-E-DCH-AICH-Information-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
Common-E-DCH-AICH-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::=
Common-E-DCH-FDPCH-InfoItem
                                 ::= SEOUENCE {
    f-DPCH-SlotFormat
                                                 F-DPCH-SlotFormat,
    fdd-TPC-DownlinkStepSize
                                                 FDD-TPC-DownlinkStepSize,
   iE-Extensions
                                                 ProtocolExtensionContainer { Common-E-DCH-FDPCH-InfoItem-ExtIEs} }
    OPTIONAL,
    . . .
Common-E-DCH-FDPCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                              PRESENCE optional }
    { ID id-Initial-DL-Transmission-Power CRITICALITY ignore
                                                                     EXTENSION DL-Power
```

```
ID id-Maximum-DL-Power
                                            CRITICALITY ignore
                                                                     EXTENSION DL-Power
                                                                                             PRESENCE optional }
     ID id-Minimum-DL-Power
                                            CRITICALITY ignore
                                                                     EXTENSION DL-Power
                                                                                             PRESENCE optional },
Common-E-DCH-Resource-Combination-InfoList::= SEOUENCE (SIZE (1.. maxNrOfCommonEDCH)) OF Common-E-DCH-Resource-Combination-InfoList-Item
Common-E-DCH-Resource-Combination-InfoList-Item
                                                      ::= SEOUENCE {
    soffset
                                                Soffset,
    f-DPCH-DL-Code-Number
                                                FDD-DL-ChannelisationCodeNumber,
    ul-DPCH-ScramblingCode
                                                UL-ScramblingCode,
    e-RGCH-E-HICH-Channelisation-Code
                                                FDD-DL-ChannelisationCodeNumber,
    e-RGCH-Signature-Sequence
                                                E-RGCH-Signature-Sequence
        OPTIONAL.
    e-HICH-Signature-Sequence
                                                E-HICH-Signature-Sequence,
    iE-Extensions
                                                ProtocolExtensionContainer { { Common-E-DCH-Resource-Combination-InfoList-Item-ExtIEs} }
                OPTIONAL,
Common-E-DCH-Resource-Combination-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Ul-common-E-DCH-MACflow-Specific-InfoList
                                                ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-InfoList-Item
Ul-common-E-DCH-MACflow-Specific-InfoList-Item
                                                      ::= SEQUENCE {
    ul-Common-MACFlowID
                                                         Common-MACFlow-ID,
    transportBearerRequestIndicator
                                                         TransportBearerRequestIndicator,
    bindingID
                                                         BindingID
                                                                                                                          OPTIONAL,
    transportLayerAddress
                                                         TransportLayerAddress
                                                                                                                          OPTIONAL,
                                                         Tnl0os
                                                                                                                          OPTIONAL,
    tnl0os
    payloadCRC-PresenceIndicator
                                                         PayloadCRC-PresenceIndicator,
    bundlingModeIndicator
                                                         BundlingModeIndicator
                                                                                                                          OPTIONAL,
    common-E-DCH-MACdFlow-Specific-Information
                                                         Common-E-DCH-MACdFlow-Specific-InfoList,
                                                         ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoList-Item-ExtIEs} }
    iE-Extensions
                    OPTIONAL,
    . . .
Ul-common-E-DCH-MACflow-Specific-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-E-DCH-MACdFlow-Specific-InfoList::= SEOUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF Common-E-DCH-MACdFlow-Specific-InfoList-Item
Common-E-DCH-MACdFlow-Specific-InfoList-Item
                                                     ::= SEOUENCE {
    common-e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH.
    eDCH-HARO-PO-FDD
                                                     E-DCH-HARO-PO-FDD,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                            OPTIONAL,
    common-E-DCHLogicalChannelInformation
                                                     Common-E-DCH-LogicalChannel-InfoList,
```

```
ProtocolExtensionContainer { { Common-E-DCH-MACdFlow-Specific-InfoList-Item-ExtIEs} }
   iE-Extensions
           OPTIONAL.
    . . .
Common-E-DCH-MACdFlow-Specific-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-E-DCH-LoqicalChannel-InfoList::= SEQUENCE (SIZE (1.. maxNoOfLoqicalChannels)) OF Common-E-DCH-LoqicalChannel-InfoList-Item
Common-E-DCH-LogicalChannel-InfoList-Item ::= SEQUENCE {
   logicalChannelId
                                  LogicalChannelID,
   maximumMACcPDU-SizeExtended
                                  MAC-PDU-SizeExtended.
                                                  ProtocolExtensionContainer { { Common-E-DCH-LogicalChannel-InfoList-Item-ExtIEs} }
   iE-Extensions
       OPTIONAL,
    . . .
Common-E-DCH-LogicalChannel-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-schedulingPriorityIndicator CRITICALITY ignore
                                                         EXTENSION SchedulingPriorityIndicator
                                                                                                               PRESENCE optional },
Common-EDCH-System-Information-ResponseFDD
                                               ::= SEQUENCE {
    ul-common-E-DCH-MACflow-Specific-InfoResponse
                                                          Ul-common-E-DCH-MACflow-Specific-InfoResponseList,
    serving-Grant-Value
                                                          E-Serving-Grant-Value,
                                                          ProtocolExtensionContainer { { Common-EDCH-System-Information-ResponseFDD-ExtIEs} }
   iE-Extensions
                   OPTIONAL,
    . . .
Common-EDCH-System-Information-ResponseFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-RNTI-List CRITICALITY ignore
                                          EXTENSION E-RNTI-List PRESENCE optional }.
E-RNTI-List
                   ::= SEQUENCE (SIZE (1..maxofERNTI)) OF E-RNTI
Ul-common-E-DCH-MACflow-Specific-InfoResponseList
                                                      ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-
InfoResponseList-Item
Ul-common-E-DCH-MACflow-Specific-InfoResponseList-Item
                                                           ::= SEQUENCE {
   ul-Common-MACFlowID
                                                      Common-MACFlow-ID,
   bindingID
                                                      BindingID
                                                                                                                    OPTIONAL,
   transportLayerAddress
                                                      TransportLaverAddress
   iE-Extensions
                                                      ExtIEs } }
                          OPTIONAL,
    . . .
Ul-common-E-DCH-MACflow-Specific-InfoResponseList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
Common-MACFlows-to-DeleteFDD ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlows)) OF Common-MACFlows-to-DeleteFDD-Item
Common-MACFlows-to-DeleteFDD-Item ::= SEQUENCE {
    common-MACFlow-ID
                                                    Common-MACFlow-ID,
                                                    ProtocolExtensionContainer { { Common-MACFlows-to-DeleteFDD-Item-ExtIEs} }
    iE-Extensions
       OPTIONAL,
Common-MACFlows-to-DeleteFDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-MACFlow-ID ::= INTEGER (0..maxNrOfCommonMACFlows-1)
CommonMACFlow-Specific-InfoList ::= SEOUENCE (SIZE (1.. maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem
CommonMACFlow-Specific-InfoItem ::= SEQUENCE {
    common-MACFlow-Id
                                                    Common-MACFlow-ID,
    bindingID
                                                    BindingID
                                                                                                OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                                OPTIONAL,
                                                    Tnl0os
                                                                                                OPTIONAL,
    common-MACFlow-PriorityQueue-Information
                                                    Common-MACFlow-PriorityQueue-Information
                                                                                                OPTIONAL,
    iE-Extensions
                                                    ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-ExtIEs } }
                                                                                                                                        OPTIONAL,
CommonMACFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                CRITICALITY ignore EXTENSION TransportBearerRequestIndicator
    { ID id-TransportBearerRequestIndicator
    -- This IE should not be contained if the MAC flow is setup in procedure, and it should be contained if the MAC flow is modified in procedure.
CommonMACFlow-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem-Response
CommonMACFlow-Specific-InfoItem-Response ::= SEQUENCE {
    commonMACFlow-ID
                                                    Common-MACFlow-ID,
    bindingID
                                                    BindingID
                                                                                                OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                                OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                    HSDSCH-Initial-Capacity-Allocation
                                                                                                OPTIONAL,
                                                    ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-Response-ExtIEs} }
    iE-Extensions
    OPTIONAL,
CommonMACFlow-Specific-InfoItem-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Common-MACFlow-PriorityQueue-Information ::= SEQUENCE (SIZE (1..maxNrOfcommonMACQueues)) OF Common-MACFlow-PriorityQueue-Item
```

```
Common-MACFlow-PriorityQueue-Item ::= SEQUENCE {
    priority-Queue-Information-for-Enhanced-FACH
                                                         Priority-Queue-Information-for-Enhanced-FACH-PCH,
                                                         ProtocolExtensionContainer { { Common-MACFlow-PriorityOueue-Item-ExtIEs } }
        iE-Extensions
    OPTIONAL.
    . . .
Common-MACFlow-PriorityQueue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass
                                            TUTRANGPSAccuracyClass,
    tUTRANGANSSMeasurementAccuracyClass
                                            TUTRANGANSSAccuracyClass
CommonMeasurementType ::= ENUMERATED {
    received-total-wide-band-power,
    transmitted-carrier-power,
    acknowledged-prach-preambles,
    ul-timeslot-iscp,
    notUsed-1-acknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles,
    uTRAN-GPS-Timing-of-Cell-Frames-for-UE-Positioning,
    sFN-SFN-Observed-Time-Difference,
    transmittedCarrierPowerOfAllCodesNotUsedForHSTransmission,
    hS-DSCH-Required-Power,
    hS-DSCH-Provided-Bit-Rate,
    received-total-wide-band-power-for-cellPortion,
    transmitted-carrier-power-for-cellPortion,
    transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmission-for-cellPortion,
    upPTS-Interference,
    dLTransmissionBranchLoad,
    hS-DSCH-Required-Power-for-cell-portion,
    hS-DSCH-Provided-Bit-Rate-for-cell-portion,
    e-DCH-Provided-Bit-Rate,
    e-DCH-Non-serving-Relative-Grant-Down-Commands,
    received-Scheduled-EDCH-Power-Share,
    received-Scheduled-EDCH-Power-Share-for-cellPortion,
    uTRAN-GANSS-timing-of-cell-frames-for-UE-Positioning,
    eDCH-RACH-report,
    transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmission-for-cellPortion.
    ul-timeslot-iscp-for-cellPortion,
    upPTS-Interference-for-cellPortion,
    e-DCH-Provided-Bit-Rate-for-cellPortion
CommonMeasurementValue ::= CHOICE {
```

```
Transmitted-Carrier-Power-Value,
    transmitted-carrier-power
    received-total-wide-band-power
                                                      Received-total-wide-band-power-Value,
    acknowledged-prach-preambles
                                                      Acknowledged-PRACH-preambles-Value.
    uL-TimeslotISCP
                                                      UL-TimeslotISCP-Value.
    notUsed-1-acknowledged-PCPCH-access-preambles
                                                      NULL.
   notUsed-2-detected-PCPCH-access-preambles
                                                      NULL.
    extension-CommonMeasurementValue
                                          Extension-CommonMeasurementValue
Extension-CommonMeasurementValue
                                   ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}
Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementValueInformation
                                                          CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation
                                                                                                                                    PRESENCE
mandatory }|
    { ID id-SFNSFNMeasurementValueInformation
                                                          CRITICALITY ignore TYPE SFNSFNMeasurementValueInformation
                                                                                                                                    PRESENCE
mandatory }|
    TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                  PRESENCE mandatory }
    { ID id-HS-DSCHRequiredPowerValueInformation
                                                          CRITICALITY ignore TYPE HS-DSCHRequiredPower
       PRESENCE mandatory } |
    { ID id-HS-DSCHProvidedBitRateValueInformation
                                                          CRITICALITY ignore TYPE HS-DSCHProvidedBitRate
    PRESENCE mandatory } |
    { ID id-Transmitted-Carrier-Power-For-CellPortion-Value CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-Value PRESENCE
mandatory } |
    { ID id-Received-total-wide-band-power-For-CellPortion-Value
                                                                  CRITICALITY ignore TYPE Received-total-wide-band-power-For-CellPortion-Value
    PRESENCE mandatory } |
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue
                                                                                                                            CRITICALITY ignore
    TYPE TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue
                                                                                                                            PRESENCE mandatory
} |
    { ID id-UpPTSInterferenceValue
                                                                  CRITICALITY ignore TYPE UpPTSInterferenceValue
                   PRESENCE mandatory } |
    { ID id-DLTransmissionBranchLoadValue
                                                                  CRITICALITY ignore TYPE DLTransmissionBranchLoadValue
               PRESENCE mandatory } |
    { ID id-HS-DSCHRequiredPowerValueInformation-For-CellPortion
                                                                  CRITICALITY ignore TYPE HS-DSCHRequiredPowerValueInformation-For-CellPortion
    PRESENCE mandatory }
    { ID id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion CRITICALITY ignore TYPE HS-DSCHProvidedBitRateValueInformation-For-CellPortion
    PRESENCE mandatory } |
    { ID id-E-DCHProvidedBitRateValueInformation
                                                                  CRITICALITY ignore TYPE E-DCHProvidedBitRate
                       PRESENCE mandatory } |
    { ID id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue
                                                                  CRITICALITY ignore TYPE E-DCH-Non-serving-Relative-Grant-Down-Commands
       PRESENCE mandatory } |
    { ID id-Received-Scheduled-EDCH-Power-Share-Value CRITICALITY ignore TYPE Received-Scheduled-EDCH-Power-Share-Value
                                                                                                                            PRESENCE mandatory
     ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value CRITICALITY ignore TYPE Received-Scheduled-EDCH-Power-Share-For-
CellPortion-Value PRESENCE mandatory } |
     ID id-TUTRANGANSSMeasurementValueInformation
                                                      CRITICALITY ignore TYPE TUTRANGANSSMeasurementValueInformation PRESENCE mandatory }
     ID id-EDCH-RACH-Report-Value
                                                      CRITICALITY ignore TYPE EDCH-RACH-Report-Value
                                                                                                                            PRESENCE mandatory
} |
       -- FDD only
    { ID id-Transmitted-Carrier-Power-For-CellPortion-ValueLCR CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-ValueLCR
    PRESENCE mandatory } |
    { ID id-Received-total-wide-band-power-For-CellPortion-ValueLCR CRITICALITY ignore TYPE Received-total-wide-band-power-For-CellPortion-
          PRESENCE mandatory }
ValueLCR
```

```
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue CRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue
                                                                                                                  PRESENCE mandatory } |
    { ID id-UL-TimeslotISCP-For-CellPortion-Value
                                                                                CRITICALITY ignore
                                                                                                              TYPE UL-TimeslotISCP-For-
CellPortion-Value
                                                 PRESENCE mandatory }
    { ID id-HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR CRITICALITY ignore TYPE HS-DSCHRequiredPowerValueInformation-For-
CellPortionLCR PRESENCE mandatory } |
    CellPortionLCR PRESENCE mandatory } |
    { ID id-E-DCHProvidedBitRateValueInformation-For-CellPortion
                                                                                CRITICALITY ignore
                                                                                                              TYPE E-
DCHProvidedBitRateValueInformation-For-CellPortion
                                                                                    PRESENCE mandatory } |
    { ID id-UpPTSInterference-For-CellPortion-Value
                                                                                CRITICALITY ignore
                                                                                                              TYPE UpPTSInterference-For-
CellPortion-Value
                                                 PRESENCE mandatory }
CommonMeasurementValueInformation ::= CHOICE
   measurementAvailable
                              CommonMeasurementAvailable,
    measurementnotAvailable
                              CommonMeasurementnotAvailable
CommonMeasurementAvailable::= SEQUENCE {
    commonmeasurementValue
                              CommonMeasurementValue,
                                  ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs} }
   ie-Extensions
                                                                                                                  OPTIONAL,
    . . .
CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CommonMeasurementnotAvailable ::= NULL
CommonPhysicalChannelID ::= INTEGER (0..255)
CommonPhysicalChannelID768 ::= INTEGER (0..511)
Common-PhysicalChannel-Status-Information ::= SEQUENCE {
    commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   resourceOperationalState
                                      ResourceOperationalState,
   availabilityStatus
                                      AvailabilityStatus,
                                      ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Common-PhysicalChannel-Status-Information768 ::= SEQUENCE {
    commonPhysicalChannelID768
                                      CommonPhysicalChannelID768,
    resourceOperationalState
                                      ResourceOperationalState,
    availabilityStatus
                                      AvailabilityStatus,
```

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```
ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information768-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
Common-PhysicalChannel-Status-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommonTransportChannelID ::= INTEGER (0..255)
CommonTransportChannel-InformationResponse ::= SEQUENCE
    commonTransportChannelID
                                        CommonTransportChannelID,
    bindingID
                                        BindingID
                                                                OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { CommonTransportChannel-InformationResponse-ExtIEs} }
                                                                                                                                        OPTIONAL,
    . . .
CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-BroadcastCommonTransportBearerIndication CRITICALITY ignore EXTENSION BroadcastCommonTransportBearerIndication
                                                                                                                                 PRESENCE optional
           id-IPMulticastDataBearerIndication
     ID
                                                        CRITICALITY ignore EXTENSION IPMulticastDataBearerIndication
PRESENCE optional },
Common-TransportChannel-Status-Information ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer { { Common-TransportChannel-Status-Information-ExtIEs} }
                                                                                                                                        OPTIONAL,
    . . .
Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommunicationControlPortID ::= INTEGER (0..65535)
Compressed-Mode-Deactivation-Flag::= ENUMERATED {
    deactivate,
    maintain-Active
ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"
ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB
```

```
ContinuousPacketConnectivityDTX-DRX-Capability ::= ENUMERATED {
    continuous-Packet-Connectivity-DTX-DRX-capable,
    continuous-Packet-Connectivity-DTX-DRX-non-capable
ContinuousPacketConnectivityDTX-DRX-Information ::= SEQUENCE {
   uE-DTX-DRX-Offset
                                              UE-DTX-DRX-Offset,
   enabling-Delay
                                              Enabling-Delay,
   dTX-Information
                                              DTX-Information,
   dRX-Information
                                              DRX-Information
                                                                                OPTIONAL,
   iE-Extensions
                                              OPTIONAL,
ContinuousPacketConnectivityDTX-DRX-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ContinuousPacketConnectivityDTX-DRX-Information-to-Modify ::= SEQUENCE {
   uE-DTX-DRX-Offset
                                             UE-DTX-DRX-Offset
                                                                                    OPTIONAL,
   enabling-Delay
                                              Enabling-Delay
                                                                                    OPTIONAL,
   dTX-Information-to-Modify
                                              DTX-Information-to-Modify
                                                                                    OPTIONAL,
   dRX-Information-to-Modify
                                              DRX-Information-to-Modify
                                                                                    OPTIONAL,
    iE-Extensions
                                              ProtocolExtensionContainer { { ContinuousPacketConnectivityDTX-DRX-Information-to-Modify-ExtIEs } }
           OPTIONAL,
ContinuousPacketConnectivityDTX-DRX-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ContinuousPacketConnectivityHS-SCCH-less-Capability ::= ENUMERATED {
    continuous-Packet-Connectivity-HS-SCCH-less-capable,
    continuous-Packet-Connectivity-HS-SCCH-less-capable-non-capable
ContinuousPacketConnectivityHS-SCCH-less-Information ::= SEQUENCE (SIZE (1..maxNrOfHS-DSCH-TBSs-HS-SCCHless)) OF ContinuousPacketConnectivityHS-
SCCH-less-InformationItem
ContinuousPacketConnectivityHS-SCCH-less-InformationItem ::= SEQUENCE
   transport-Block-Size-Index
                                          Transport-Block-Size-Index,
   hSPDSCH-Second-Code-Support
                                          HSPDSCH-Second-Code-Support,
                                          ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-ExtIEs } }
   iE-Extensions
       OPTIONAL,
    . . .
ContinuousPacketConnectivityHS-SCCH-less-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
ContinuousPacketConnectivityHS-SCCH-less-Information-Response ::= SEQUENCE {
   hSPDSCH-First-Code-Index
                                       HSPDSCH-First-Code-Index,
   hSPDSCH-Second-Code-Index
                                       HSPDSCH-Second-Code-Index
                                                                           OPTIONAL,
                                       ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs } }
   iE-Extensions
          OPTIONAL,
   . . .
ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ControlGAP ::= INTEGER (1..255)
CPC-Information ::= SEQUENCE {
   continuousPacketConnectivityDTX-DRX-Information
                                                             ContinuousPacketConnectivityDTX-DRX-Information
   continuousPacketConnectivityDTX-DRX-Information-to-Modify
                                                             ContinuousPacketConnectivityDTX-DRX-Information-to-Modify
                                                                                                                         OPTIONAL,
   continuousPacketConnectivityHS-SCCH-less-Information
                                                             ContinuousPacketConnectivityHS-SCCH-less-Information
   OPTIONAL,
                            iE-Extensions
                  OPTIONAL,
CPC-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   less-Deactivate-Indicator PRESENCE optional },
ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator ::= NULL
CQI-DTX-Timer ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
   -- Unit subframe
CQI-Feedback-Cycle ::= ENUMERATED {v0, v2, v4, v8, v10, v20, v40, v80, v160,..., v16, v32, v64}
CQI-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. TS 25.213 [9] subclause 4.2.1
CQI-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
CriticalityDiagnostics ::= SEQUENCE {
   procedureID
                            ProcedureID
                                                  OPTIONAL,
   triggeringMessage
                            TriggeringMessage
                                                      OPTIONAL,
   procedureCriticality
                            Criticality
                                                  OPTIONAL,
   transactionID
                            TransactionID
                                                      OPTIONAL,
   iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,
```

```
ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
    iE-Extensions
                                                                                                                     OPTIONAL,
CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
       iECriticality
                            Criticality,
        iE-ID
                            ProtocolIE-ID.
        repetitionNumber
                            RepetitionNumber0
                                                    OPTIONAL.
       iE-Extensions
                            ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} }
                                                                                                                         OPTIONAL.
CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
        ID id-MessageStructure
                                    CRITICALITY ignore
                                                             EXTENSION MessageStructure
                                                                                             PRESENCE optional
       ID id-TypeOfError
                                    CRITICALITY ignore
                                                             EXTENSION TypeOfError
                                                                                             PRESENCE mandatory
CRNC-CommunicationContextID ::= INTEGER (0..1048575)
CSBMeasurementID ::= INTEGER (0..65535)
CSBTransmissionID ::= INTEGER (0..65535)
Common-EDCH-System-InformationLCR ::= SEQUENCE {
    ul-common-E-DCH-MACflow-Specific-InformationLCR
                                                            Ul-common-E-DCH-MACflow-Specific-InfoListLCR
    OPTIONAL,
    common-E-PUCH-InformationLCR
                                                             Common-E-PUCH-InformationLCR
    OPTIONAL,
    e-TFCS-Information-TDD
                                                            E-TFCS-Information-TDD
    OPTIONAL,
    maximum-Number-of-Retransmissions-For-SchedulingInfo
                                                                Maximum-Number-of-Retransmissions-For-E-DCH
    OPTIONAL,
    eDCH-Retransmission-Timer-SchedulingInfo
                                                            E-DCH-MACdFlow-Retransmission-Timer
    OPTIONAL,
                                                             ProtocolExtensionContainer { { Common-EDCH-System-InformationLCR-ExtIEs } }
    iE-Extensions
    OPTIONAL,
Common-EDCH-System-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-UL-Synchronisation-Parameters-For-FACHLCR
                                                                CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR
                                                                                                                                         PRESENCE
optional }
{ ID id-PhysicalChannelID-for-CommonERNTI-RequestedIndicator
                                                                CRITICALITY ignore EXTENSION PhysicalChannelID-for-CommonERNTI-RequestedIndicator
    PRESENCE optional } |
{ ID id-Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext
                                                            CRITICALITY ignore
                                                                                     EXTENSION U1-common-E-DCH-MACflow-Specific-InfoListLCR-Ext
    PRESENCE optional },
    . . .
```

```
Common-E-PUCH-InformationLCR ::= SEQUENCE {
   minCR
                                               CodeRate,
   maxCR
                                               CodeRate.
   harqInfo
                                               HARO-Info-for-E-DCH,
                                               PRXdes-base-perURAFCN
   pRXdes-base-perURAFCN
                                                                                  OPTIONAL,
    e-PUCH-TPC-StepSize
                                               TDD-TPC-UplinkStepSize-LCR
                                                                                  OPTIONAL,
    e-AGCH-TPC-StepSize
                                               TDD-TPC-DownlinkStepSize
                                                                                  OPTIONAL,
    e-PUCH-PowerControlGAP
                                               ControlGAP
                                                                                  OPTIONAL,
   iE-Extensions
                                               OPTIONAL,
    . . .
Common-E-PUCH-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRXdes-base-perURAFCN ::= SEOUENCE (SIZE (1.. maxFrequencyinCell)) OF PRXdes-base-Item
PRXdes-base-Item ::= SEQUENCE {
   pRXdes-base
                                               PRXdes-base,
   uARFCN
                                               HARFON
                                                                                              OPTIONAL,
                                           ProtocolExtensionContainer { { PRXdes-base-Item-ExtIEs} }
   iE-Extensions
                                                                                                                     OPTIONAL,
PRXdes-base-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Ul-common-E-DCH-MACflow-Specific-InfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR
Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlowsLCRExt)) OF Ul-common-E-DCH-MACflow-Specific-
InfoList-ItemLCR
Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR
                                                       ::= SEQUENCE {
   ul-Common-MACFlowIDLCR
                                                       Common-MACFlow-ID-LCR,
    transportBearerRequestIndicator
                                                       TransportBearerRequestIndicator
                                                                                                                     OPTIONAL,
   bindingID
                                                       BindingID
                                                                                                                     OPTIONAL,
    transportLayerAddress
                                                       TransportLayerAddress
                                                                                                                     OPTIONAL,
                                                       TnlOos
    tnlOos
                                                                                                                     OPTIONAL,
   payloadCRC-PresenceIndicator
                                                       PayloadCRC-PresenceIndicator
                                                                                                                     OPTIONAL,
   common-E-DCH-MACdFlow-Specific-InformationLCR
                                                       Common-E-DCH-MACdFlow-Specific-InfoListLCR
                                                                                                                     OPTIONAL,
   11ARFCN
                                                                                                                     OPTIONAL,
   iE-Extensions
                                                       ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR-ExtIEs} }
                   OPTIONAL,
Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

. . .

```
Common-E-DCH-MACdFlow-Specific-InfoListLCR ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlowsLCR)) OF Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR
Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR
                                                  ::= SEQUENCE {
    common-e-DCH-MACdFlow-ID
                                                 E-DCH-MACdFlow-ID-LCR.
   maximum-Number-of-Retransmissions-For-E-DCH
                                                 Maximum-Number-of-Retransmissions-For-E-DCH
                                                                                                                  OPTIONAL,
    eDCH-MACdFlow-Multiplexing-List
                                                 E-DCH-MACdFlow-Multiplexing-List
    common-E-DCHLogicalChannelInformation
                                                 Common-E-DCH-LogicalChannel-InfoList
                                                                                                                  OPTIONAL,
    eDCH-HARO-PO-TDD
                                                 E-DCH-HARO-PO-TDD
   OPTIONAL,
    eDCH-MACdFlow-Retransmission-Timer
                                                 E-DCH-MACdFlow-Retransmission-Timer
                                                                                                                  OPTIONAL,
   iE-Extensions
                                                 ProtocolExtensionContainer { Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR-ExtIEs} }
           OPTIONAL.
Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-EDCH-System-Information-ResponseLCR ::= SEOUENCE {
   ul-common-E-DCH-MACflow-Specific-InfoResponseLCR
                                                             Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR
                                                                                                                         OPTIONAL,
    common-E-AGCH-ListLCR
                                                             Common-E-AGCH-ListLCR
                                                                                                                         OPTIONAL,
    common-E-HICH-ListLCR
                                                             Common-E-HICH-ListLCR
                                                                                                                         OPTIONAL,
    common-E-RNTI-Info-LCR
                                                             Common-E-RNTI-Info-LCR
                                                                                                                         OPTIONAL,
                                                             ProtocolExtensionContainer { { Common-EDCH-System-Information-ResponseLCR-ExtIEs} }
   iE-Extensions
                   OPTIONAL,
    . . .
Common-EDCH-System-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    PRESENCE optional },
InfoResponseListLCR-Ext
Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-
InfoResponseList-ItemLCR
Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlowsLCRExt)) OF Ul-common-E-DCH-MACflow-Specific-
InfoResponseList-ItemLCR
Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR ::= SEQUENCE {
   ul-Common-MACFlowID-LCR
                                                     Common-MACFlow-ID-LCR,
   bindingID
                                                     BindingID
                                                                                                                  OPTIONAL,
   transportLayerAddress
                                                     TransportLayerAddress
                                                                                                                  OPTIONAL,
   uARFCN
                                                     UARFCN
                                                                                                                  OPTIONAL,
    -- the IE is not used.
   iE-Extensions
                                                     ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR-
ExtIEs } }
                          OPTIONAL,
```

```
Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Common-E-AGCH-ListLCR ::= SEQUENCE (SIZE (1.. maxNrOfEAGCHsLCR)) OF Common-E-AGCH-ItemLCR
Common-E-AGCH-ItemLCR ::= SEQUENCE {
   e-AGCH-ID
                                                E-AGCH-Id.
   11ARFCN
                                                UARFCN
                                                                                                OPTIONAL,
    -- the IE is not used.
                                            ProtocolExtensionContainer { { Common-E-AGCH-ItemLCR-ExtIEs} }
   iE-Extensions
                                                                                                                         OPTIONAL,
Common-E-AGCH-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-E-HICH-ListLCR ::= SEQUENCE (SIZE (1.. maxNrOfEHICHsLCR)) OF Common-E-HICH-ItemLCR
Common-E-HICH-ItemLCR ::= SEQUENCE {
   e-HICH-ID
                                            E-HICH-ID-LCR,
   iE-Extensions
                                            ProtocolExtensionContainer { Common-E-HICH-ItemLCR-ExtIEs} }
                                                                                                                        OPTIONAL,
Common-E-HICH-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Common-E-RNTI-Info-LCR ::= SEQUENCE (SIZE (1.. maxnrofERUCCHsLCR)) OF Common-E-RNTI-Info-ItemLCR
Common-E-RNTI-Info-ItemLCR ::= SEQUENCE {
    starting-E-RNTI
                                            E-RNTI,
   number-of-Group
                                            INTEGER (1..32),
   number-of-e-E-RNTI-perGroup
                                            INTEGER (1..7),
    -- Values 3 to 7 shall not be used.
                                            ProtocolExtensionContainer { { Common-E-RNTI-Info-ItemLCR-ExtIEs} }
   iE-Extensions
                                                                                                                        OPTIONAL,
Common-E-RNTI-Info-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
{ ID id-AssociatedPhsicalChannelID CRITICALITY reject
                                                            EXTENSION CommonPhysicalChannelID PRESENCE optional },
Common-MACFlows-to-DeleteLCR ::= SEOUENCE (SIZE (1.. maxNrOfCommonMACFlowsLCR)) OF Common-MACFlows-to-DeleteLCR-Item
Common-MACFlows-to-DeleteLCR-Item ::= SEQUENCE {
    common-MACFlow-ID-LCR
                                                    Common-MACFlow-ID-LCR,
```

```
ProtocolExtensionContainer { { Common-MACFlows-to-DeleteLCR-Item-ExtIEs} }
    iE-Extensions
       OPTIONAL,
    . . .
Common-MACFlows-to-DeleteLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-MACFlow-ID-LCR ::= INTEGER (0..maxNrOfCommonMACFlowsLCR-1)
CommonMACFlow-Specific-InfoListLCR ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlowsLCR)) OF CommonMACFlow-Specific-InfoItemLCR
CommonMACFlow-Specific-InfoItemLCR ::= SEQUENCE {
    common-MACFlow-ID-LCR
                                                     Common-MACFlow-ID-LCR.
    bindingID
                                                     BindingID
                                                                                                 OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                                 OPTIONAL,
                                                     Tnl0os
                                                                                                 OPTIONAL,
    common-MACFlow-PriorityQueue-InformationLCR
                                                     Common-MACFlow-PriorityQueue-Information
                                                                                                 OPTIONAL,
                                                     TransportBearerRequestIndicator
    transportBearerRequestIndicator
                                                                                                 OPTIONAL,
                                                     UARFCN
    uARFCN
                                                                                                 OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItemLCR-ExtIEs } }
    OPTIONAL,
CommonMACFlow-Specific-InfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-H-RNTI-InformationLCR ::= SEQUENCE (SIZE (1.. maxNoOfCommonH-RNTI)) OF Common-H-RNTI-InfoItemLCR
Common-H-RNTI-InfoItemLCR ::= SEQUENCE {
    common-H-RNTI
                                                     HSDSCH-RNTI,
                                                     ProtocolExtensionContainer { { Common-H-RNTI-InfoItemLCR-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
Common-H-RNTI-InfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Sync-InformationLCR ::= SEQUENCE {
    t-SYNC
                                                     T-SYNC,
    t-PROTECT
                                                     T-PROTECT,
   n-PROTECT
                                                     N-PROTECT.
                                                     ProtocolExtensionContainer { { Sync-InformationLCR-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
Sync-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
CommonMACFlow-Specific-InfoList-ResponseLCR ::= SEOUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem-ResponseLCR
CommonMACFlow-Specific-InfoList-ResponseLCR-Ext ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlowsLCRExt)) OF CommonMACFlow-Specific-InfoItem-
ResponseLCR
CommonMACFlow-Specific-InfoItem-ResponseLCR ::= SEQUENCE {
    common-MACFlow-ID-LCR
                                                       Common-MACFlow-ID-LCR,
   bindingID
                                                   BindingID
                                                                                              OPTIONAL,
                                                   TransportLayerAddress
                                                                                              OPTIONAL,
    transportLayerAddress
   hSDSCH-Initial-Capacity-Allocation
                                                   HSDSCH-Initial-Capacity-Allocation
                                                                                              OPTIONAL,
   iE-Extensions
                                                   ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-ResponseLCR-ExtIEs} }
       OPTIONAL.
CommonMACFlow-Specific-InfoItem-ResponseLCR-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
CPC-InformationLCR ::= SEQUENCE {
    continuousPacketConnectivity-DRX-InformationLCR
                                                               ContinuousPacketConnectivity-DRX-InformationLCR
       OPTIONAL,
    continuousPacketConnectivity-DRX-Information-to-Modify-LCR
                                                                   ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR
   OPTIONAL,
   hS-DSCH-Semi-PersistentScheduling-Information-LCR
                                                              HS-DSCH-Semi-PersistentScheduling-Information-LCR
   hS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR
   OPTIONAL,
   hS-DSCH-SPS-Deactivate-Indicator-LCR
                                                              NULL
                                                                          OPTIONAL,
    e-DCH-Semi-PersistentScheduling-Information-LCR
                                                              E-DCH-Semi-PersistentScheduling-Information-LCR
    e-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR
   OPTIONAL,
    e-DCH-SPS-Deactivate-Indicator-LCR
                                                              NULL
                                                                          OPTIONAL,
   iE-Extensions
                               OPTIONAL,
    . . .
CPC-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPC-RecoveryReport ::= ENUMERATED {
   initiated.
    . . .
ContinuousPacketConnectivity-DRX-CapabilityLCR ::= ENUMERATED {
    continuous-Packet-Connectivity-DRX-Capable,
    continuous-Packet-Connectivity-DRX-Non-Capable
```

```
ContinuousPacketConnectivity-DRX-InformationLCR ::= SEQUENCE {
   enabling-Delay
                                          Enabling-Delay,
   hS-SCCH-DRX-Information-LCR
                                          HS-SCCH-DRX-Information-LCR,
   e-AGCH-DRX-Information-LCR
                                          E-AGCH-DRX-Information-LCR
                                                                          OPTIONAL.
   iE-Extensions
                                          OPTIONAL,
   . . .
ContinuousPacketConnectivity-DRX-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Enabling-Delay-Ext-LCR
                                   CRITICALITY ignore EXTENSION Enabling-Delay-Ext-LCR
                                                                                      PRESENCE optional },
   . . .
HS-SCCH-DRX-Information-LCR ::= SEQUENCE {
   hS-SCCH-UE-DRX-Cycle-LCR
                                                        UE-DRX-Cycle-LCR,
   hS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR
                                                        Inactivity-Threshold-for-UE-DRX-Cycle-LCR
                                                                                                                 OPTIONAL,
   hS-SCCH-UE-DRX-Offset-LCR
                                                        UE-DRX-Offset-LCR,
                               ProtocolExtensionContainer { { HS-SCCH-DRX-Information-LCR-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
HS-SCCH-DRX-Information-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE optional },
   . . .
E-AGCH-DRX-Information-LCR ::= CHOICE {
   sameAsHS-SCCH
                            NULL,
   e-AGCH-DRX-Parameters
                            E-AGCH-DRX-Parameters,
E-AGCH-DRX-Parameters ::= SEQUENCE {
   e-AGCH-UE-DRX-Cycle-LCR
                                                 UE-DRX-Cycle-LCR,
   e-AGCH-UE-Inactivity-Monitor-Threshold
                                                 E-AGCH-UE-Inactivity-Monitor-Threshold
                                                                                             OPTIONAL,
   e-AGCH-UE-DRX-Offset-LCR
                                                 UE-DRX-Offset-LCR,
   iE-Extensions
                                                 ProtocolExtensionContainer { { E-AGCH-DRX-Parameters-ExtIEs} } OPTIONAL,
E-AGCH-DRX-Parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
UE-DRX-Cycle-LCR ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64,...}
   -- Unit subframe
UE-DRX-Offset-LCR ::= INTEGER (0..63)
   -- Unit subframe
Inactivity-Threshold-for-UE-DRX-Cycle-LCR ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64,...}
```

```
-- Unit subframe
Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext ::= ENUMERATED {v128, v256, v512,...}
    -- Unit subframe
E-AGCH-UE-Inactivity-Monitor-Threshold ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity,...}
    -- Unit subframe
ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR ::= SEQUENCE
    enabling-Delay
                                                Enabling-Delay
                                                                                         OPTIONAL,
                                                                                         OPTIONAL,
    dRX-Information-to-Modify-LCR
                                                DRX-Information-to-Modify-LCR
    iE-Extensions
                                                ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR-ExtIEs }
                OPTIONAL,
ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Enabling-Delay-Ext-LCR
                                        CRITICALITY ignore EXTENSION Enabling-Delay-Ext-LCR
                                                                                                   PRESENCE optional },
    . . .
DRX-Information-to-Modify-LCR ::= CHOICE {
    modify
                    DRX-Information-to-Modify-Items-LCR,
    deactivate
                    NULL.
DRX-Information-to-Modify-Items-LCR ::= SEQUENCE
    hS-SCCH-DRX-Information-LCR
                                                HS-SCCH-DRX-Information-LCR
                                                                                     OPTIONAL,
    e-AGCH-DRX-Information-LCR
                                                E-AGCH-DRX-Information-LCR
                                                                                     OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { | DRX-Information-to-Modify-Items-LCR-ExtIEs } | OPTIONAL,
DRX-Information-to-Modify-Items-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ContinuousPacketConnectivity-DRX-Information-ResponseLCR ::= SEQUENCE {
    enabling-Delay
                                            Enabling-Delay
                                                                                     OPTIONAL,
    hS-SCCH-DRX-Information-ResponseLCR
                                            HS-SCCH-DRX-Information-ResponseLCR
                                                                                     OPTIONAL,
    e-AGCH-DRX-Information-ResponseLCR
                                            E-AGCH-DRX-Information-ResponseLCR
                                                                                     OPTIONAL,
                                            ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-Information-ResponseLCR-ExtIEs } }
    iE-Extensions
       OPTIONAL,
    . . .
ContinuousPacketConnectivity-DRX-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Enabling-Delay-Ext-LCR
                                        CRITICALITY ignore EXTENSION Enabling-Delay-Ext-LCR
                                                                                                   PRESENCE optional },
    . . .
HS-SCCH-DRX-Information-ResponseLCR ::= SEQUENCE {
    hS-SCCH-UE-DRX-Cycle-LCR
                                                                 UE-DRX-Cycle-LCR
                                                                                         OPTIONAL,
```

```
hS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR
                                                        Inactivity-Threshold-for-UE-DRX-Cycle-LCR
                                                                                                         OPTIONAL,
   hS-SCCH-UE-DRX-Offset-LCR
                                                       UE-DRX-Offset-LCR
                                                                             OPTIONAL.
   iE-Extensions
                               ProtocolExtensionContainer { { HS-SCCH-DRX-Information-ResponseLCR-ExtIEs} } OPTIONAL,
HS-SCCH-DRX-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE optional },
   . . .
E-AGCH-DRX-Information-ResponseLCR ::= CHOICE {
   sameAsHS-SCCH
                                  NULL,
   e-AGCH-DRX-Parameters-Response
                                   E-AGCH-DRX-Parameters-Response,
E-AGCH-DRX-Parameters-Response ::= SEQUENCE {
                                             UE-DRX-Cycle-LCR
   e-AGCH-UE-DRX-Cycle-LCR
                                                                                OPTIONAL,
   e-AGCH-UE-Inactivity-Monitor-Threshold
                                             E-AGCH-UE-Inactivity-Monitor-Threshold OPTIONAL,
   e-AGCH-UE-DRX-Offset-LCR
                                             UE-DRX-Offset-LCR
                                                                                OPTIONAL,
                                             ProtocolExtensionContainer { { E-AGCH-DRX-Parameters-Response-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
E-AGCH-DRX-Parameters-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- ------
DATA-ID ::= INTEGER (0..3)
DCH-ID ::= INTEGER (0..255)
DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem
DCH-FDD-InformationItem ::= SEOUENCE {
   payloadCRC-PresenceIndicator
                                   PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                  UL-FP-Mode,
   toAWS
                                  ToAWS,
   toAWE
                                   TOAWE.
   dCH-SpecificInformationList
                                  DCH-Specific-FDD-InformationList,
                                   ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs} } 
   iE-Extensions
                                                                                                     OPTIONAL,
   . . .
```

```
DCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-TnlOos
                                     CRITICALITY ignore
                                                            EXTENSION TnlOos
                                                                                  PRESENCE optional
   . . .
DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item
DCH-Specific-FDD-Item ::=
                         SEOUENCE {
   dCH-ID
                                     DCH-ID,
   ul-TransportFormatSet
                                     TransportFormatSet,
   dl-TransportFormatSet
                                     TransportFormatSet,
   allocationRetentionPriority
                                     AllocationRetentionPriority,
   frameHandlingPriority
                                     FrameHandlingPriority,
   gE-Selector
                                     OE-Selector,
                                     ProtocolExtensionContainer { { DCH-Specific-FDD-Item-ExtIEs} }
   iE-Extensions
                                                                                                            OPTIONAL,
DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Unidirectional-DCH-Indicator
                                         CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
                                                                                                            PRESENCE optional },
   . . .
DCH-Indicator-For-E-DCH-HSDPA-Operation ::= ENUMERATED {
   dch-not-present
DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem
DCH-InformationResponseItem ::= SEQUENCE {
   dCH-ID
                                                 DCH-ID,
   bindingID
                                                 BindingID
                                                                       OPTIONAL,
   transportLayerAddress
                                                 TransportLayerAddress
                                                                      OPTIONAL,
                                                 iE-Extensions
                                                                                                                              OPTIONAL,
   . . .
DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerNotSetupIndicator
                                            CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator
                                                                                                                PRESENCE optional
FDD only
   . . .
DCH-MeasurementOccasion-Information ::= SEQUENCE (SIZE (1.. maxNrOfDCHMeasurementOccasionPatternSequence)) OF DchMeasurementOccasionInformation-
Item
DchMeasurementOccasionInformation-Item ::= SEOUENCE {
   pattern-Sequence-Identifier
                                             Pattern-Sequence-Identifier,
   status-Flag
                                             Status-Flag,
   measurement-Occasion-Pattern-Sequence-parameters
                                                           Measurement-Occasion-Pattern-Sequence-parameters
                                                                                                                              OPTIONAL,
                                             iE-Extensions
   OPTIONAL,
```

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```
DCH-MeasurementOccasion-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Measurement-Occasion-Pattern-Sequence-parameters ::= SEQUENCE {
   measurement-Occasion-Pattern-Sequence-parameters-k
                                                                         INTEGER (1..9),
    measurement-Occasion-Pattern-Sequence-parameters-offset
                                                                         INTEGER (0..511),
    measurement-Occasion-Pattern-Sequence-parameters-M-Length
                                                                         INTEGER (1..512),
    measurement-Occasion-Pattern-Sequence-parameters-Timeslot-Bitmap
                                                                         BIT STRING (SIZE (7)),
                                ProtocolExtensionContainer { { Measurement-Occasion-Pattern-Sequence-parameters-ExtIEs } } OPTIONAL,
    . . .
Measurement-Occasion-Pattern-Sequence-parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        ToAWS.
    toAWE
                                        ToAWE,
    dCH-SpecificInformationList
                                        DCH-Specific-TDD-InformationList,
                                            ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs} } 
    iE-Extensions
                                                                                                                          OPTIONAL,
DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                        CRITICALITY ignore
                                                                                         PRESENCE optional },
    {ID id-TnlQos
                                                                 EXTENSION TnlQos
    . . .
DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item
DCH-Specific-TDD-Item ::=
                           SEQUENCE {
    dCH-ID
                                            DCH-ID,
    ul-CCTrCH-ID
                                            CCTrCH-ID,
    dl-CCTrCH-ID
                                            CCTrCH-ID,
    ul-TransportFormatSet
                                            TransportFormatSet,
    dl-TransportFormatSet
                                            TransportFormatSet,
    allocationRetentionPriority
                                            AllocationRetentionPriority,
    frameHandlingPriority
                                            FrameHandlingPriority,
    αE-Selector
                                            OE-Selector
                                                                             OPTIONAL,
    -- This IE shall be present if DCH is part of set of Coordinated DCHs
    iE-Extensions
                                            ProtocolExtensionContainer { { DCH-Specific-TDD-Item-ExtIEs} } 
                                                                                                                          OPTIONAL,
    . . .
DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Unidirectional-DCH-Indicator
                                            CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
                                                                                                                      PRESENCE optional },
    . . .
```

```
FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem
FDD-DCHs-to-ModifyItem ::= SEQUENCE
    ul-FP-Mode
                                         UL-FP-Mode
                                                         OPTIONAL,
    toAWS
                                         ToAWS
                                                         OPTIONAL,
    toAWE
                                         ToAWE
                                                         OPTIONAL,
    transportBearerRequestIndicator
                                         TransportBearerRequestIndicator,
    dCH-SpecificInformationList
                                         DCH-ModifySpecificInformation-FDD,
    iE-Extensions
                                         ProtocolExtensionContainer { { FDD-DCHs-to-ModifyItem-ExtIEs} }
                                                                                                                           OPTIONAL,
    . . .
FDD-DCHs-to-ModifyItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                                         CRITICALITY ignore
                                                                 EXTENSION TnlOos
                                                                                          PRESENCE optional },
    . . .
DCH-ModifySpecificInformation-FDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD
                                SEQUENCE {
DCH-ModifySpecificItem-FDD::=
    dCH-ID
                                                     DCH-ID,
    ul-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    dl-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    allocationRetentionPriority
                                                     AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                     FrameHandlingPriority
                                                                                  OPTIONAL,
                                                     ProtocolExtensionContainer { { DCH-ModifySpecificItem-FDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
DCH-ModifySpecificItem-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-Unidirectional-DCH-Indicator
                                                         CRITICALITY reject
                                                                                  EXTENSION Unidirectional-DCH-Indicator
                                                                                                                                   PRESENCE optional },
    . . .
TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD
DCH-ModifyItem-TDD ::= SEQUENCE {
    ul-FP-Mode
                                         UL-FP-Mode
                                                         OPTIONAL,
    t.oAWS
                                         ToAWS
                                                         OPTIONAL,
    toAWE
                                         ToAWE
                                                         OPTIONAL,
                                         TransportBearerRequestIndicator,
    transportBearerRequestIndicator
    dCH-SpecificInformationList
                                         DCH-ModifySpecificInformation-TDD,
                                         ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
TDD-DCHs-to-ModifyItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
                                                                                          PRESENCE optional },
    {ID id-TnlOos
                                         CRITICALITY ignore
                                                                 EXTENSION TnlQos
    . . .
```

```
DCH-ModifySpecificInformation-TDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-TDD
DCH-ModifySpecificItem-TDD ::= SEQUENCE {
    dCH-ID
                                                     DCH-ID,
    ul-CCTrCH-ID
                                                     CCTrCH-ID
                                                                                 OPTIONAL.
    dl-CCTrCH-ID
                                                    CCTrCH-ID
                                                                                 OPTIONAL,
    ul-TransportFormatSet
                                                    TransportFormatSet
                                                                                 OPTIONAL,
    dl-TransportFormatSet
                                                    TransportFormatSet
                                                                                 OPTIONAL,
    allocationRetentionPriority
                                                    AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                     FrameHandlingPriority
                                                                                 OPTIONAL,
    iE-Extensions
                                                    ProtocolExtensionContainer { { DCH-ModifySpecificItem-TDD-ExtIEs} } }
                                                                                                                                         OPTIONAL,
    . . .
DCH-ModifySpecificItem-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
    SEQUENCE {
       dl-Cost-1
                        INTEGER (0..65535),
       dl-Cost-2
                       INTEGER (0..65535),
       ul-Cost-1
                       INTEGER (0..65535),
       ul-Cost-2
                        INTEGER (0..65535),
                            ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-ExtIEs } }
       iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
DedicatedChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error.
    transmitted-code-power,
    rx-timing-deviation,
    round-trip-time,
    rx-timing-deviation-LCR,
    angle-Of-Arrival-LCR,
    hs-sich-quality,
    best-Cell-Portions,
    rx-timing-deviation-768,
    rx-timing-deviation-384-extended,
   best-Cell-PortionsLCR
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value
                                    SIR-Value,
    sIR-ErrorValue
                                    SIR-Error-Value,
    transmittedCodePowerValue
                                        Transmitted-Code-Power-Value,
```

```
rSCP
                                    RSCP-Value,
   rxTimingDeviationValue
                                    Rx-Timing-Deviation-Value,
    roundTripTime
                                    Round-Trip-Time-Value,
    extension-DedicatedMeasurementValue
                                        Extension-DedicatedMeasurementValue
Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}
Extension-DedicatedMeasurementValueIE NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory
} |
                                            CRITICALITY reject TYPE Angle-Of-Arrival-Value-LCR
    { ID id-Angle-Of-Arrival-Value-LCR
                                                                                                                     PRESENCE mandatory
} |
     ID id-HS-SICH-Reception-Quality
                                            CRITICALITY reject TYPE HS-SICH-Reception-Quality-Value
                                                                                                       PRESENCE mandatory } |
    { ID id-Best-Cell-Portions-Value
                                            CRITICALITY reject TYPE Best-Cell-Portions-Value
                                                                                                                     PRESENCE mandatory
} |
     ID id-Rx-Timing-Deviation-Value-768
                                            CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768
                                                                                                              PRESENCE mandatory } |
     ID id-Rx-Timing-Deviation-Value-384-ext
                                            CRITICALITY reject TYPE Rx-Timing-Deviation-Value-384-ext
                                                                                                              PRESENCE mandatory }
     ID id-Extended-Round-Trip-Time-Value
                                            CRITICALITY reject TYPE Extended-Round-Trip-Time-Value
                                                                                                              PRESENCE mandatory }
     ID id-Best-Cell-Portions-ValueLCR
                                            CRITICALITY reject TYPE Best-Cell-Portions-ValueLCR
                                                                                                                     PRESENCE mandatory
    . . .
DedicatedMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                             DedicatedMeasurementAvailable,
    measurementnotAvailable
                             DedicatedMeasurementnotAvailable
DedicatedMeasurementAvailable::= SEQUENCE {
    dedicatedmeasurement Value
                                 DedicatedMeasurementValue.
    CFN
                                                           OPTIONAL,
    ie-Extensions
                                 OPTIONAL,
DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementnotAvailable ::= NULL
DelayedActivation ::= CHOICE {
                          CFN.
    separate-indication
```

```
DelayedActivationUpdate ::= CHOICE {
    activate Activate-Info.
    deactivate
                  Deactivate-Info
Activate-Info ::= SEQUENCE {
    activation-type
                          Execution-Type,
    initial-dl-tx-power
                          DL-Power,
                          FirstRLS-Indicator
                                                                                   OPTIONAL, --FDD Only
    firstRLS-Indicator
    propagation-delay
                          PropagationDelay
                                                                                   OPTIONAL, --FDD Only
                          ProtocolExtensionContainer { { Activate-Info-ExtIEs} }
    iE-Extensions
                                                                                   OPTIONAL,
Activate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ExtendedPropagationDelay CRITICALITY reject EXTENSION ExtendedPropagationDelay PRESENCE mandatory }, --FDD Only
Deactivate-Info ::= SEQUENCE {
    deactivation-type
                          Execution-Type,
    iE-Extensions
                          ProtocolExtensionContainer { { Deactivate-Info-ExtIEs} }
                                                                                       OPTIONAL,
    . . .
Deactivate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Execution-Type ::= CHOICE {
    synchronised
    unsynchronised NULL
DeltaSIR
                      ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.
DGANSSCorrections ::= SEQUENCE {
    dGANSS-ReferenceTime
                                      INTEGER (0..119),
    dGANSS-Information
                                      DGANSS-Information,
                                      ie-Extensions
                                                                                                              OPTIONAL,
DGANSSCorrections-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DGANSS-Corrections-Req ::= SEQUENCE {
```

```
dGANSS-Signal-ID
                                 BIT STRING (SIZE (8)),
   ie-Extensions
                                 OPTIONAL,
DGANSS-Corrections-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-GANSS-ID
                          CRITICALITY ignore EXTENSION GANSS-ID
                                                                      PRESENCE
                                                                                optional},
   . . .
DGANSS-Information ::= SEQUENCE (SIZE (1..maxSgnType)) OF DGANSS-InformationItem
DGANSS-InformationItem ::= SEQUENCE {
   gANSS-SignalId
                                 GANSS-Signal-ID
                                                                                                 OPTIONAL,
   gANSS-StatusHealth
                                 GANSS-StatusHealth,
-- The following IE shall be present if the Status Health IE value is not equal to 'no data' or 'invalid data'
   dGANSS-SignalInformation
                                 DGANSS-SignalInformation
                                                                                                 OPTIONAL,
   ie-Extensions
                                 OPTIONAL,
DGANSS-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
   . . .
DGANSS-SignalInformation ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF DGANSS-SignalInformationItem
DGANSS-SignalInformationItem ::= SEQUENCE {
   satId
                                 INTEGER (0..63),
   qANSS-iod
                                 BIT STRING (SIZE (10)),
   udre
                                 UDRE,
                                 INTEGER (-2047..2047),
   ganss-prc
   ganss-rrc
                                 INTEGER (-127..127),
   ie-Extensions
                                 OPTIONAL,
DGANSS-SignalInformationItem-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-DGNSS-ValidityPeriod CRITICALITY ignore EXTENSION DGNSS-ValidityPeriod
                                                                          PRESENCE
                                                                                                 optional},
   . . .
DGANSSThreshold ::= SEQUENCE {
   pRCDeviation
                                 PRCDeviation,
   ie-Extensions
                                 OPTIONAL,
```

```
DGANSSThreshold-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DGNSS-ValidityPeriod ::=
                                                                                                    SEQUENCE {
           udreGrowthRate
                                                                                                               UDREGrowthRate,
           udreValidityTime
                                                                                                               UDREValidityTime,
                                                                                                               iE-Extensions
                                                                                                                                                                                                                                                                                                                          OPTIONAL,
DGNSS-ValidityPeriod-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DGPSCorrections ::= SEQUENCE {
        gpstow
                                                                     GPSTOW,
        status-health
                                                                     GPS-Status-Health,
        satelliteinfo
                                                                     SAT-Info-DGPSCorrections,
        ie-Extensions
                                                                     OPTIONAL,
DGPSCorrections-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DGPSThresholds ::= SEQUENCE {
                                                                  PRCDeviation,
        prcdeviation
        ie-Extensions
                                                                 OPTIONAL,
DGPSThresholds-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiscardTimer ::= ENUMERATED
\{v20, v40, v60, v80, v100, v120, v140, v160, v180, v200, v250, v300, v400, v500, v750, v1000, v1250, v1500, v1750, v2000, v2500, v3000, v3500, v4000, v4500, v5000, v7500, v1000, v100
DiversityControlField ::= ENUMERATED {
           may,
           must,
           must-not,
            . . .
```

```
DiversityMode ::= ENUMERATED {
   none.
   sTTD.
    closed-loop-model,
   not-used-closed-loop-mode2,
DL-DPCH-SlotFormat ::= INTEGER (0..16,...)
DL-DPCH-TimingAdjustment ::= ENUMERATED {
   timing-advance,
   timing-delay
DL-Timeslot-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationItem
DL-Timeslot-InformationItem ::= SEQUENCE {
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
                                          TFCI-Presence,
   tFCI-Presence
   dL-Code-Information
                                          TDD-DL-Code-Information,
                                          ProtocolExtensionContainer { { DL-Timeslot-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
DL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeslotLCR-InformationItem
DL-TimeslotLCR-InformationItem ::= SEQUENCE {
   timeSlotLCR
                                          TimeSlotLCR,
   midambleShiftLCR
                                          MidambleShiftLCR,
   tFCI-Presence
                                          TFCI-Presence,
   dL-Code-LCR-Information
                                          TDD-DL-Code-LCR-Information,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs} }
                                                                                                                    OPTIONAL,
    . . .
DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Initial-DL-Power-TimeslotLCR-InformationItem
                                                         CRITICALITY ignore
                                                                              EXTENSION DL-Power
                                                                                                                                          } |
                                                                                                                    PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
   { ID id-Maximum-DL-Power-TimeslotLCR-InformationItem
                                                         CRITICALITY ignore
                                                                              EXTENSION DL-Power
                                                                                                                    PRESENCE optional
    -- Applicable to 1.28Mcps TDD only
   EXTENSION DL-Power
                                                                                                                    PRESENCE optional
                                                                                                                                          },
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-Timeslot768-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot768-InformationItem
```

```
DL-Timeslot768-InformationItem ::= SEQUENCE {
    timeSlot
                                            TimeSlot.
                                            MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
    tFCI-Presence
                                            TFCI-Presence,
    dL-Code-768-Information
                                            TDD-DL-Code-768-Information.
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot768-InformationItem-ExtIEs} }
                                                                                                                         OPTIONAL,
DL-Timeslot768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    . . .
DL-or-Global-CapacityCredit ::= INTEGER (0..65535)
DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power/10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
DLPowerAveragingWindowSize ::= INTEGER (1..60)
DL-PowerBalancing-Information ::= SEQUENCE {
    powerAdjustmentType
                                        PowerAdjustmentType,
    dLReferencePower
                                        DL-Power
                                                        OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common'
    dLReferencePowerList-DL-PC-Rqst
                                        DL-ReferencePowerInformationList
                                                                                 OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Individual'
    maxAdjustmentStep
                                        MaxAdjustmentStep
                                                                OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                        AdjustmentPeriod
    adjustmentPeriod
                                                                OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
    adjustmentRatio
                                        ScaledAdjustmentRatio OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                        ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
DL-PowerBalancing-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-ReferencePowerInformationList
                                        ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem
DL-ReferencePowerInformationItem ::= SEQUENCE {
                                RL-ID,
    dl-Reference-Power
                                DL-Power,
    iE-Extensions
                                ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
    . . .
```

OPTIONAL,

OPTIONAL,

```
DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {
    dL-PowerBalancing-Activated
DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED {
    dL-PowerBalancing-Updated
DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --
DL-TimeslotISCP ::= INTEGER (0..91)
DL-TimeslotISCPInfo ::= SEOUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem
DL-TimeslotISCPInfoItem ::= SEQUENCE {
   timeSlot
    dL-TimeslotISCP
                              DL-TimeslotISCP.
                            ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} }
   iE-Extensions
DL-TimeslotISCPInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-TimeslotISCPInfoLCR ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR
DL-TimeslotISCPInfoItemLCR ::= SEOUENCE {
                 TimeSlotLCR,
    timeSlotLCR
    dL-TimeslotISCP
                            DL-TimeslotISCP,
   iE-Extensions
                            ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }
DL-TimeslotISCPInfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-TPC-Pattern01Count ::= INTEGER (0..30,...)
DLTransmissionBranchLoadValue ::= INTEGER (0..101,...)
Downlink-Compressed-Mode-Method ::= ENUMERATED {
    not-Used-puncturing,
    sFdiv2,
    higher-layer-scheduling,
```

```
DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-
ReconfRast
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst::= SEQUENCE {
                                                TimeSlotLCR.
   midambleShiftAndBurstType
                                                MidambleShiftLCR,
    dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst
                                                    DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst,
   maxHSDSCH-HSSCCH-Power
                                                MaximumTransmissionPower
                                                                                            OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
        OPTIONAL,
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MaxHSDSCH-HSSCCH-Power-per-CELLPORTION
                                                                        CRITICALITY ignore
                                                                                                EXTENSION MaxHSDSCH-HSSCCH-Power-per-CELLPORTION
                    PRESENCE optional },
MaxHSDSCH-HSSCCH-Power-per-CELLPORTION ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF MaxHSDSCH-HSSCCH-Power-per-CELLPORTION-Item
MaxHSDSCH-HSSCCH-Power-per-CELLPORTION-Item::= SEQUENCE
    cellPortionLCRID
                                                CellPortionLCRID,
    maxHSDSCH-HSSCCH-Power
                                                MaximumTransmissionPower,
    iE-Extensions
                                                ProtocolExtensionContainer { { MaxHSDSCH-HSSCCH-Power-per-CELLPORTION-Item-ExtIEs} }
    OPTIONAL,
MaxHSDSCH-HSSCCH-Power-per-CELLPORTION-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode
DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
DPCH-ID ::= INTEGER (0..239)
DPCH-ID768 ::= INTEGER (0..479)
DRX-Information ::= SEQUENCE {
    uE-DRX-Cycle
                                            UE-DRX-Cycle,
    inactivity-Threshold-for-UE-DRX-Cycle
                                                                    Inactivity-Threshold-for-UE-DRX-Cycle,
    inactivity-Threshold-for-UE-Grant-Monitoring
                                                                    Inactivity-Threshold-for-UE-Grant-Monitoring,
    uE-DRX-Grant-Monitoring
                                           UE-DRX-Grant-Monitoring,
    iE-Extensions
                                            ProtocolExtensionContainer { {DRX-Information-ExtIEs} } OPTIONAL,
```

```
DRX-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DRX-Information-to-Modify ::= CHOICE {
   modify
                   DRX-Information-to-Modify-Items,
   deactivate
                   NULL,
DRX-Information-to-Modify-Items ::= SEQUENCE {
   uE-DRX-Cycle
                                                                 UE-DRX-Cycle
   OPTIONAL,
   inactivity-Threshold-for-UE-DRX-Cycle
                                                                 Inactivity-Threshold-for-UE-DRX-Cycle
                                                                                                                                  OPTIONAL,
                                                                 Inactivity-Threshold-for-UE-Grant-Monitoring
    inactivity-Threshold-for-UE-Grant-Monitoring
                                                                                                                   OPTIONAL,
   uE-DRX-Grant-Monitoring
                                                                 UE-DRX-Grant-Monitoring
   OPTIONAL,
   iE-Extensions
                                               ProtocolExtensionContainer { {DRX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
DRX-Information-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DRX-Interruption-by-HS-DSCH ::= ENUMERATED {
   drx-Interruption-Configured,
   drx-Interruption-Not-Configured,
    . . .
DSCH-ID ::= INTEGER (0..255)
DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem
DSCH-InformationResponseItem ::= SEQUENCE {
   dscH-ID
                                                  DSCH-ID,
   bindingID
                                                  BindingID
                                                                             OPTIONAL,
   transportLayerAddress
                                                  TransportLayerAddress
                                                                             OPTIONAL,
   iE-Extensions
                                                  OPTIONAL,
    . . .
DSCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem
DSCH-TDD-InformationItem ::= SEQUENCE {
```

```
dscH-ID
                                       DSCH-ID,
   cCTrCH-ID
                                       CCTrCH-ID.
   transportFormatSet
                                       TransportFormatSet,
   allocationRetentionPriority
                                       AllocationRetentionPriority,
   frameHandlingPriority
                                       FrameHandlingPriority,
   toAWS
                                       ToAWS,
   toAWE
                                       TOAWE,
                                       ProtocolExtensionContainer { { DSCH-TDD-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                            OPTIONAL,
DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-bindingID
                                    CRITICALITY ignore
                                                         EXTENSION
                                                                    BindingID
                                                                                                        PRESENCE optional }|
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                   CRITICALITY ignore
                                                                    TransportLayerAddress
                                                                                                        PRESENCE optional
                                                         EXTENSION
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-TnlOos
                                                                                                        PRESENCE optional },
                                   CRITICALITY ignore
                                                         EXTENSION TnlOos
DsField ::= BIT STRING (SIZE (8))
DTX-Cycle-2ms-Items ::= SEQUENCE {
   uE-DTX-Cvcle1-2ms
                                UE-DTX-Cvcle1-2ms,
   uE-DTX-Cycle2-2ms
                                UE-DTX-Cycle2-2ms,
   mAC-DTX-Cycle-2ms
                                MAC-DTX-Cycle-2ms,
   iE-Extensions
                                           OPTIONAL,
DTX-Cycle-2ms-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Cycle-2ms-to-Modify-Items ::= SEQUENCE {
   uE-DTX-Cycle1-2ms
                                UE-DTX-Cycle1-2ms,
   uE-DTX-Cycle2-2ms
                                UE-DTX-Cycle2-2ms,
   mAC-DTX-Cycle-2ms
                                MAC-DTX-Cycle-2ms,
   iE-Extensions
                                           OPTIONAL,
   . . .
DTX-Cycle-2ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Cycle-10ms-Items ::= SEQUENCE {
   uE-DTX-Cycle1-10ms
                                UE-DTX-Cycle1-10ms,
   uE-DTX-Cycle2-10ms
                                UE-DTX-Cycle2-10ms,
   mAC-DTX-Cycle-10ms
                                MAC-DTX-Cycle-10ms,
   iE-Extensions
                                           OPTIONAL,
   . . .
```

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```
DTX-Cycle-10ms-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Cycle-10ms-to-Modify-Items ::= SEQUENCE {
    uE-DTX-Cycle1-10ms
                                   UE-DTX-Cycle1-10ms,
    uE-DTX-Cycle2-10ms
                                   UE-DTX-Cycle2-10ms,
    mAC-DTX-Cycle-10ms
                                    MAC-DTX-Cycle-10ms,
                                                ProtocolExtensionContainer { { DTX-Cycle-10ms-to-Modify-Items-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
DTX-Cycle-10ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Information ::= SEQUENCE {
    e-DCH-TTI-Length
                                        E-DCH-TTI-Length,
    inactivity-Threshold-for-UE-DTX-Cycle2
                                                            Inactivity-Threshold-for-UE-DTX-Cycle2,
    uE-DTX-Long-Preamble
                                        UE-DTX-Long-Preamble,
    mAC-Inactivity-Threshold
                                            MAC-Inactivity-Threshold
    cQI-DTX-Timer
                                CQI-DTX-Timer,
                                UE-DPCCH-burst1,
    uE-DPCCH-burst1
    uE-DPCCH-burst2
                                UE-DPCCH-burst2,
                                ProtocolExtensionContainer { {DTX-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
DTX-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Information-to-Modify ::= CHOICE {
    modify
                    DTX-Information-to-Modify-Items,
    deactivate
                    NULL,
DTX-Information-to-Modify-Items ::= SEQUENCE {
    e-DCH-TTI-Length-to-Modify
                                    E-DCH-TTI-Length-to-Modify
                                                                        OPTIONAL,
    inactivity-Threshold-for-UE-DTX-Cycle2
                                                            Inactivity-Threshold-for-UE-DTX-Cycle2
                                                                                                                                        OPTIONAL,
    uE-DTX-Long-Preamble
                                    UE-DTX-Long-Preamble
                                                                        OPTIONAL,
    mAC-Inactivity-Threshold
                                       MAC-Inactivity-Threshold
                                                                                OPTIONAL,
    cOI-DTX-Timer
                                    COI-DTX-Timer
                                                                        OPTIONAL,
                                    UE-DPCCH-burst1
    uE-DPCCH-burst1
                                                                        OPTIONAL,
    uE-DPCCH-burst2
                                    UE-DPCCH-burst2
                                                                        OPTIONAL,
                                    ProtocolExtensionContainer { {DTX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
    iE-Extensions
DTX-Information-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

OPTIONAL,

OPTIONAL,

```
Dual-Band-Capability ::= ENUMERATED {
    dual-Band-Capable,
    dual-Band-non-Capable
Dual-Band-Capability-Info::= SEQUENCE {
    dual-Band-Capability
                                                              Dual-Band-Capability,
    possible-Secondary-Serving-Cell-List
                                                              Possible-Secondary-Serving-Cell-List
                               ProtocolExtensionContainer { { Dual-Band-Capability-Info-ExtIEs } }
   iE-Extensions
Dual-Band-Capability-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DwPCH-Power ::= INTEGER (-150..400,...)
-- DwPCH-power = power * 10
-- If power <= -15 DwPCH shall be set to -150
-- If power >= 40 DwPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
-- -----
E-AGCH-Table-Choice ::= ENUMERATED{table16B, table16B-1, ...}
E-AGCH-FDD-Code-Information ::= CHOICE {
    replace
                        E-AGCH-FDD-Code-List,
                          NULL,
    remove
E-AGCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfE-AGCHs)) OF FDD-DL-ChannelisationCodeNumber
E-AI-Capability ::= ENUMERATED {
    e-AI-capable,
    e-AI-non-capable
E-AI-Indicator ::= BOOLEAN
E-DCH-Capability ::= ENUMERATED {
    e-DCH-capable,
    e-DCH-non-capable
E-DCHCapacityConsumptionLaw ::= SEQUENCE {
       e-DCH-SF-allocation
                              E-DCH-SF-allocation,
```

OPTIONAL,

OPTIONAL,

OPTIONAL,

OPTIONAL,

```
dl-Cost-1
                               INTEGER (0..65535)
       dl-Cost-2
                               INTEGER (0..65535)
                               ProtocolExtensionContainer { { E-DCHCapacityConsumptionLaw-ExtIEs } }
       iE-Extensions
E-DCHCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TDD-CapacityConsumptionLaw ::= SEQUENCE {
       ul-Cost INTEGER (0..65535),
       dl-Cost
                           INTEGER (0..65535)
                                                                                                                    OPTIONAL,
       iE-Extensions
                       ProtocolExtensionContainer { { E-DCH-TDD-CapacityConsumptionLaw-ExtIEs } }
E-DCH-TDD-CapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-SF-allocation ::= SEQUENCE ( SIZE(1..maxNrOfCombEDPDCH) ) OF
    SEOUENCE {
                  INTEGER (0..65535),
INTEGER (0..65535),
       ul-Cost-1
       ul-Cost-2
       iE-Extensions
                           ProtocolExtensionContainer { { E-DCH-SF-allocation-ExtIEs } }
                                                                                                OPTIONAL,
E-DCH-SF-allocation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TTI2ms-Capability ::= BOOLEAN
-- True = TTI 10ms and 2ms supported for E-DCH False = only TTI 10ms supported for E-DCH
E-DCH-SF-Capability ::= ENUMERATED {
    sf64,
    sf32,
    sf16,
    sf8,
    sf4,
   sf4x2,
    sf2x2,
    sf4x2-and-sf2x2,
E-DCH-HARQ-Combining-Capability ::= ENUMERATED {
    iR-Combining-capable,
    chase-Combining-capable,
    iR-and-Chase-Combining-capable
```

```
E-DCH-DDI-Value ::= INTEGER (0..62)
E-DCH-FDD-DL-Control-Channel-Information ::= SEQUENCE {
    e-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code
                                                    DL-ScramblingCode
            OPTIONAL.
    e-AGCH-Channelisation-Code
                                                    FDD-DL-ChannelisationCodeNumber
           OPTIONAL,
    primary-e-RNTI
                                                    E-RNTI
           OPTIONAL,
    secondary-e-RNTI
                                                    E-RNTI
           OPTIONAL,
    e-RGCH-E-HICH-Channelisation-Code
                                                    FDD-DL-ChannelisationCodeNumber
            OPTIONAL,
    e-RGCH-Signature-Sequence
                                                    E-RGCH-Signature-Sequence
           OPTIONAL,
    e-HICH-Signature-Sequence
                                                    E-HICH-Signature-Sequence
           OPTIONAL,
    serving-Grant-Value
                                                    E-Serving-Grant-Value
           OPTIONAL,
    primary-Secondary-Grant-Selector
                                                    E-Primary-Secondary-Grant-Selector
           OPTIONAL,
    e-RGCH-Release-Indicator
                                                    E-RGCH-Release-Indicator
                OPTIONAL,
                                                    ProtocolExtensionContainer { { E-DCH-FDD-DL-Control-Channel-Information-ExtIEs} }
    iE-Extensions
    OPTIONAL,
E-DCH-FDD-DL-Control-Channel-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Default-Serving-Grant-in-DTX-Cycle2
                                                    CRITICALITY ignore
                                                                             EXTENSION E-Serving-Grant-Value
                                                                                                                                 PRESENCE optional },
    . . .
E-DCH-FDD-Information ::= SEQUENCE {
    e-DCH-MACdFlows-Information
                                                    E-DCH-MACdFlows-Information,
   hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
           OPTIONAL,
                                                    E-DCH-Maximum-Bitrate
    e-DCH-Maximum-Bitrate
           OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                    E-DCH-Processing-Overload-Level
            OPTIONAL,
    e-DCH-Reference-Power-Offset
                                                    E-DCH-Reference-Power-Offset
           OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Information-ExtIEs} }
    iE-Extensions
           OPTIONAL,
E-DCH-FDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-PowerOffset-for-SchedulingInfo
                                                         CRITICALITY ignore EXTENSION E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                                         PRESENCE
optional}|
    { ID id-SixteenQAM-UL-Operation-Indicator
                                                        CRITICALITY reject EXTENSION
                                                                                         SixteenQAM-UL-Operation-Indicator
    PRESENCE optional } |
```

PRESENCE

```
{ ID id-E-AGCH-Table-Choice
                                                        CRITICALITY ignore EXTENSION E-AGCH-Table-Choice
conditional },
    -- The IE shall be present if the SixteenOAM UL Operation Indicator IE is set to 'Activate'--
E-DCH-FDD-Information-Response ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-InformationResp
                                                    E-DCH-MACdFlow-Specific-InformationResp
           OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                            OPTIONAL,
                                                    ProtocolExtensionContainer { { E-DCH-FDD-Information-Response-ExtIEs } }
    iE-Extensions
        OPTIONAL,
E-DCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-FDD-Information-to-Modify ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info-to-Modify
                                                    E-DCH-MACdFlow-Specific-InfoList-to-Modify
                            OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                            OPTIONAL,
    e-DCH-Maximum-Bitrate
                                                    E-DCH-Maximum-Bitrate
                            OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                    E-DCH-Processing-Overload-Level
                            OPTIONAL,
                                                    E-DCH-Reference-Power-Offset
    e-DCH-Reference-Power-Offset
           OPTIONAL,
                                                    MACeReset-Indicator
    mACeReset-Indicator
           OPTIONAL,
                                                    ProtocolExtensionContainer { { E-DCH-FDD-Information-to-Modify-ExtIEs} } 
    iE-Extensions
        OPTIONAL,
E-DCH-FDD-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-PowerOffset-for-SchedulingInfo
                                                        CRITICALITY ignore EXTENSION E-DCH-PowerOffset-for-SchedulingInfo
                PRESENCE optional |
    { ID id-SixteenQAM-UL-Operation-Indicator
                                                        CRITICALITY reject EXTENSION SixteenQAM-UL-Operation-Indicator
                   PRESENCE optional |
    { ID id-E-DCH-MACdPDUSizeFormat
                                                        CRITICALITY reject EXTENSION E-DCH-MACdPDUSizeFormat
                    PRESENCE optional } |
     ID id-E-DCH-DL-Control-Channel-Grant-Information CRITICALITY ignore EXTENSION
                                                                                        E-DCH-DL-Control-Channel-Grant-Information
                PRESENCE optional |
    { ID id-E-AGCH-Table-Choice
                                                        CRITICALITY ignore EXTENSION E-AGCH-Table-Choice
                    PRESENCE conditional },
    -- The IE shall be present if the SixteenQAM UL Operation Indicator IE is set to 'Activate'--
E-DCH-FDD-Update-Information ::= SEQUENCE {
```

```
e-DCH-MACdFlow-Specific-UpdateInformation
                                                    E-DCH-MACdFlow-Specific-UpdateInformation
           OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                            OPTIONAL.
    iE-Extensions
                                                    ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } }
        OPTIONAL,
E-DCH-FDD-Update-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-E-DCH-DL-Control-Channel-Change-Information
                                                                CRITICALITY ignore EXTENSION E-DCH-DL-Control-Channel-Change-Information
       PRESENCE optional },
E-DCH-MACdFlow-Specific-UpdateInformation ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-UpdateInformation-Item
E-DCH-MACdFlow-Specific-UpdateInformation-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                    E-DCH-MACdFlow-ID,
    hARO-Process-Allocation-NonSched-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                            OPTIONAL,
                                                    ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs} }
    iE-Extensions
    OPTIONAL,
E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-DL-Control-Channel-Channel-Channel-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Channel-Information-Item
E-DCH-DL-Control-Channel-Change-Information-Item ::= SEQUENCE {
    e-DCH-RL-ID
                                            RL-ID,
   iE-Extensions
                                            ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs} } OPTIONAL,
E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-DL-Control-Channel-Grant-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Grant-Information-Item
E-DCH-DL-Control-Channel-Grant-Information-Item ::= SEQUENCE {
    e-DCH-RL-ID
    iE-Extensions
                                            ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs} } OPTIONAL,
E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
E-DCH-Grant-Type-Information ::= CHOICE {
    e-DCH-Non-Scheduled-Transmission-Grant
                                                E-DCH-Non-Scheduled-Transmission-Grant-Items.
    e-DCH-Scheduled-Transmission-Grant
                                                NULL,
E-DCH-LogicalChannelInformation ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelInformationItem
E-DCH-LogicalChannelInformationItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    schedulingInformation
                                    SchedulingInformation,
    mACesGuaranteedBitRate
                                    MACesGuaranteedBitRate
                                                                OPTIONAL.
    e-DCH-DDI-Value
                                    E-DCH-DDI-Value,
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeList,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelInformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
E-DCH-LogicalChannelInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                MAC-PDU-SizeExtended
                                                                                                                  PRESENCE optional } |
     ID id-MACes-Maximum-Bitrate-LCR
                                                                     EXTENSION
                                                                                                                         PRESENCE optional | --
                                            CRITICALITY ignore
                                                                                MACes-Maximum-Bitrate-LCR
1.28Mcps TDD only
    { ID id-UE-AggregateMaximumBitRate-Enforcement-Indicator
                                                                CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate-Enforcement-Indicator
    PRESENCE optional },
    . . .
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...,5743..11498)
E-DCH-PowerOffset-for-SchedulingInfo ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-Processing-Overload-Level ::= INTEGER (0..10,...)
E-DCH-Reference-Power-Offset ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-MACdPDU-SizeList ::= SEQUENCE (SIZE (1.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-MACdPDU-SizeListItem ::= SEQUENCE {
    mACdPDU-Size
                                    ProtocolExtensionContainer { { E-DCH-MACdPDU-SizeListItem-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
E-DCH-MACdPDU-SizeListItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdPDU-SizeCapability ::= ENUMERATED {
    fixedSizeCapable,
    flexibleSizeCapable
```

```
E-DCH-MACdPDUSizeFormat ::= ENUMERATED {
    fixedMACdPDU-Size.
    flexibleMACdPDU-Size
E-DCH-LogicalChannelToModify ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToModifyItem
E-DCH-LogicalChannelToModifyItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator
                                                                    OPTIONAL,
                                    SchedulingInformation
    schedulingInformation
                                                                OPTIONAL,
                                                                OPTIONAL,
    mACesGuaranteedBitRate
                                    MACesGuaranteedBitRate
    e-DCH-DDI-Value
                                    E-DCH-DDI-Value
                                                                    OPTIONAL.
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeToModifyList,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToModifyItem-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
E-DCH-LogicalChannelToModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                    EXTENSION MAC-PDU-SizeExtended
                                                                                                          PRESENCE optional } |
                                                                                                                         PRESENCE optional }, --
     ID id-MACes-Maximum-Bitrate-LCR
                                            CRITICALITY ignore
                                                                    EXTENSION MACes-Maximum-Bitrate-LCR
1.28Mcps TDD only
    . . .
E-DCH-MACdPDU-SizeToModifyList ::= SEQUENCE (SIZE (0.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-LogicalChannelToDelete ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToDeleteItem
E-DCH-LogicalChannelToDeleteItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
                                    ProtocolExtensionContainer { { E-DCH-LoqicalChannelToDeleteItem-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
E-DCH-LogicalChannelToDeleteItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
LogicalChannelID ::= INTEGER (1..15)
E-DCH-HARQ-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)
E-DCH-MACdFlows-Information ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info
                                                    E-DCH-MACdFlow-Specific-InfoList,
                                                    ProtocolExtensionContainer { { E-DCH-MACdFlows-Information-ExtIEs} }
    iE-Extensions
           OPTIONAL,
    . . .
```

```
E-DCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlow-Multiplexing-List ::= BIT STRING ( SIZE(maxNrOfEDCHMACdFlows) )
E-DCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem
E-DCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
   e-DCH-MACdFlow-ID
                                              E-DCH-MACdFlow-ID,
   allocationRetentionPriority
                                              AllocationRetentionPriority,
   tnlOos
                                              TnlOos
          OPTIONAL,
   payloadCRC-PresenceIndicator
                                              PayloadCRC-PresenceIndicator,
                                              Maximum-Number-of-Retransmissions-For-E-DCH,
   maximum-Number-of-Retransmissions-For-E-DCH
   eDCH-HARO-PO-FDD
                                              E-DCH-HARO-PO-FDD,
   eDCH-MACdFlow-Multiplexing-List
                                              E-DCH-MACdFlow-Multiplexing-List
                         OPTIONAL,
   eDCH-Grant-Type-Information
                                              E-DCH-Grant-Type-Information,
   bundlingModeIndicator
                                              BundlingModeIndicator
   OPTIONAL,
   eDCHLogicalChannelInformation
                                              E-DCH-LogicalChannelInformation.
                                              ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
E-DCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     PRESENCE optional
E-DCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InformationResp-Item
E-DCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE
   e-DCH-MACdFlow-ID
                                              E-DCH-MACdFlow-ID,
   bindingID
                                              BindingID
          OPTIONAL,
   transportLayerAddress
                                              TransportLayerAddress
          OPTIONAL,
   hARQ-Process-Allocation-NonSched-2ms-EDCH
                                              HARQ-Process-Allocation-2ms-EDCH
                        OPTIONAL,
                                              ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs} }
   iE-Extensions
   OPTIONAL,
E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    PRESENCE optional
FDD only
   . . .
```

```
E-DCH-MACdFlow-Specific-InfoList-to-Modify ::= SEOUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem-to-Modify
E-DCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE
    e-DCH-MACdFlow-ID
                                                    E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                    AllocationRetentionPriority
           OPTIONAL,
    transportBearerRequestIndicator
                                                    TransportBearerRequestIndicator,
    tnl0os
                                                    Tnl0os
            OPTIONAL,
                                                    Maximum-Number-of-Retransmissions-For-E-DCH
    maximum-Number-of-Retransmissions-For-E-DCH
            OPTIONAL.
    eDCH-HARQ-PO-FDD
                                                    E-DCH-HARO-PO-FDD
                            OPTIONAL,
    eDCH-MACdFlow-Multiplexing-List
                                                    E-DCH-MACdFlow-Multiplexing-List
                                                    E-DCH-Grant-Type-Information
    eDCH-Grant-Type-Information
                            OPTIONAL,
    bundlingModeIndicator
                                                     BundlingModeIndicator
                            OPTIONAL,
    eDCH-LogicalChannelToAdd
                                                     E-DCH-LogicalChannelInformation
                            OPTIONAL,
    eDCH-LogicalChannelToModify
                                                     E-DCH-LogicalChannelToModify
                            OPTIONAL,
    eDCH-LogicalChannelToDelete
                                                     E-DCH-LogicalChannelToDelete
                            OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs} }
    OPTIONAL,
E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlows-to-Delete ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-to-Delete-Item
E-DCH-MACdFlow-to-Delete-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
                                                    ProtocolExtensionContainer { { E-DCH-MACdFlow-to-Delete-Item-ExtIEs} }
    iE-Extensions
       OPTIONAL,
E-DCH-MACdFlow-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
E-DCH-Non-Scheduled-Transmission-Grant-Items ::= SEQUENCE {
    -- The following IE shall be ignored if id-Ext-Max-Bits-MACe-PDU-non-scheduled is present in E-DCH-Non-Scheduled-Transmission-Grant-Items-
ExtIEs
    maxBits-MACe-PDU-non-scheduled
                                                Max-Bits-MACe-PDU-non-scheduled,
```

```
hARQ-Process-Allocation-NonSched-2ms
                                                HARQ-Process-Allocation-2ms-EDCH
           OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs} }
    OPTIONAL,
E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    -- The following IE shall be present if the maximum number of bits to be signalled exceeds maxNrOfBits-MACe-PDU-non-scheduled
    { ID id-Ext-Max-Bits-MACe-PDU-non-scheduled
                                                 CRITICALITY reject
                                                                            EXTENSION Ext-Max-Bits-MACe-PDU-non-scheduled
                                                                                                                                         PRESENCE
optional},
    . . .
E-DCH-Non-serving-Relative-Grant-Down-Commands ::= INTEGER (0..100,...)
E-DCHProvidedBitRateValue ::= INTEGER(0..16777215,...,16777216...256000000)
-- Unit bit/s, Range 0..2^24-1..2^24..256,000,000, Step 1 bit
Maximum-Target-ReceivedTotalWideBandPower ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in TS 25.133 [22]
Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio ::= INTEGER (0..100)
-- Unit %, Range 0..100%, Step 1%
E-DCH-RL-Indication ::= ENUMERATED {
    e-DCH,
    non-e-DCH
E-DCH-Serving-Cell-Change-Info-Response ::= SEQUENCE {
    e-DCH-serving-cell-choice
                                    E-DCH-serving-cell-choice,
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
E-DCH-serving-cell-informationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-serving-cell-choice ::= CHOICE {
    e-DCH-serving-cell-change-successful
                                                E-DCH-serving-cell-change-successful,
    e-DCH-serving-cell-change-unsuccessful
                                                E-DCH-serving-cell-change-unsuccessful,
    . . .
E-DCH-serving-cell-change-successful ::= SEQUENCE {
    e-DCH-RL-InformationList-Rsp
                                            E-DCH-RL-InformationList-Rsp,
                                        ProtocolExtensionContainer { { E-DCH-serving-cell-change-successful-ExtIEs} } OPTIONAL,
    iE-Extensions
E-DCH-RL-InformationList-Rsp ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF E-DCH-RL-InformationList-Rsp-Item
```

```
E-DCH-RL-InformationList-Rsp-Item ::= SEQUENCE {
                                        RL-ID.
    e-DCH-FDD-DL-Control-Channel-Info E-DCH-FDD-DL-Control-Channel-Information,
   iE-Extensions
                                                    ProtocolExtensionContainer { { E-DCH-RL-InformationList-Rsp-Item-ExtIEs} } OPTIONAL,
E-DCH-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-RL-InformationList-Rsp-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-serving-cell-change-unsuccessful ::= SEQUENCE {
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
    iE-Extensions
E-DCH-serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
-- The maximum repetitions should be limited to 1 so that this information is reported only once for a cell.
EDCH-RACH-Report-Value ::= SEQUENCE (SIZE(1.. maxNrOfCommonEDCH)) OF
    SEQUENCE {
                                        Granted-EDCH-RACH-Resources-Value,
       granted-EDCH-RACH-resources
        denied-EDCH-RACH-resources
                                        Denied-EDCH-RACH-Resources-Value,
                           ProtocolExtensionContainer { { EDCH-RACH-Report-Value-ExtIEs } }
       iE-Extensions
                                                                                                 OPTIONAL,
        . . .
EDCH-RACH-Report-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TFCI-Table-Index ::= INTEGER (0..1,...,2..7)
E-DCH-TTI-Length ::= CHOICE {
    two-ms
                DTX-Cycle-2ms-Items,
                DTX-Cycle-10ms-Items,
    ten-ms
E-DCH-TTI-Length-to-Modify ::= CHOICE {
                DTX-Cycle-2ms-to-Modify-Items,
                DTX-Cycle-10ms-to-Modify-Items,
    ten-ms
```

```
E-DPCCH-PO ::= INTEGER (0..maxNrOfEDPCCH-PO-QUANTSTEPs)
E-DPDCH-PowerInterpolation ::= BOOLEAN
E-Primary-Secondary-Grant-Selector ::= ENUMERATED {
    primary,
    secondary
E-DCH-MACdFlow-ID-LCR ::= INTEGER (0..maxNrOfEDCHMACdFlowsLCR-1)
E-DCH-MACdFlows-to-DeleteLCR ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlowsLCR)) OF E-DCH-MACdFlow-to-Delete-ItemLCR
E-DCH-MACdFlow-to-Delete-ItemLCR ::= SEQUENCE {
    e-DCH-MACdFlow-ID-LCR
                                                    E-DCH-MACdFlow-ID-LCR,
    iE-Extensions
                                                    ProtocolExtensionContainer { { E-DCH-MACdFlow-to-Delete-ItemLCR-ExtIEs} }
       OPTIONAL,
E-DCH-MACdFlow-to-Delete-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Enhanced-UE-DRX-InformationLCR ::= SEQUENCE {
                                                T321,
    hS-DSCH-DRX-Cycle-FACH
                                                HS-DSCH-DRX-Cycle-FACH,
   hS-DSCH-RX-Burst-FACH
                                                HS-DSCH-RX-Burst-FACH,
                                                ProtocolExtensionContainer { { Enhanced-UE-DRX-InformationLCR-ExtIEs } }
   iE-Extensions
                                                                                                                                         OPTIONAL,
Enhanced-UE-DRX-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-HICH-ID-LCR ::= INTEGER(0..255)
E-HICH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
End-Of-Audit-Sequence-Indicator ::= ENUMERATED {
    end-of-audit-sequence,
    not-end-of-audit-sequence
E-Serving-Grant-Value ::= INTEGER (0..38)
E-RGCH-2-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-3-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-E-HICH-FDD-Code-Information ::= CHOICE {
    replace
                            E-RGCH-E-HICH-FDD-Code-List,
                            NULL,
    remove
    . . .
```

```
E-RGCH-E-HICH-FDD-Code-List ::= SEOUENCE (SIZE (1..maxNrOfE-RGCHs-E-HICHs)) OF FDD-DL-ChannelisationCodeNumber
E-RGCH-Release-Indicator ::= ENUMERATED {e-RGCHreleased}
E-RGCH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
E-RNTI ::= INTEGER (0..65535)
E-TFCI := INTEGER (0..127)
E-TFCI-BetaEC-Boost ::= INTEGER (0..127,...)
E-TFCI-Boost-Information ::= SEQUENCE {
    e-TFCI-BetaEC-Boost
                                                    E-TFCI-BetaEC-Boost,
    uL-Delta-T2TP
                                                    UL-Delta-T2TP
                                                                            OPTIONAL,
    -- This IE shall be present if the E-TFCI BetaEC Boost IE value is not set to 127.
                                                    ProtocolExtensionContainer { { E-TFCI-Boost-Information-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
E-TFCI-Boost-Information-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-TFCS-Information ::= SEQUENCE {
    e-DCH-TFCI-Table-Index
                                                        E-DCH-TFCI-Table-Index,
    e-DCH-Min-Set-E-TFCI
                                                    E-TFCI
                                                                    OPTIONAL,
    reference-E-TFCI-Information
                                                    Reference-E-TFCI-Information,
                                                    ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} }
   iE-Extensions
                                                                                                                         OPTIONAL,
E-TFCS-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-E-TFCI-Boost-Information
                                            CRITICALITY reject
                                                                    EXTENSION E-TFCI-Boost-Information
                                                                                                                         PRESENCE optional |
     ID id-E-DPDCH-PowerInterpolation CRITICALITY reject
                                                                                                                     PRESENCE optional },
                                                                EXTENSION E-DPDCH-PowerInterpolation
E-TTI ::= ENUMERATED {
    e-TTI-2ms,
    e-TTI-10ms
E-DCHProvidedBitRate ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF E-DCHProvidedBitRate-Item
E-DCHProvidedBitRate-Item ::= SEQUENCE {
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    e-DCHProvidedBitRateValue
                                        E-DCHProvidedBitRateValue,
    iE-Extensions
                                        ProtocolExtensionContainer { { E-DCHProvidedBitRate-Item-ExtIEs} }
                                                                                                                         OPTIONAL,
```

```
E-DCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCHProvidedBitRateValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF E-
DCHProvidedBitRateValueInformation-For-CellPortion-Item
E-DCHProvidedBitRateValueInformation-For-CellPortion-Item ::= SEQUENCE{
    cellPortionLCRID
                                        CellPortionLCRID,
    e-DCHProvidedBitRateValue
                                    E-DCHProvidedBitRate,
                                    ProtocolExtensionContainer { {E-DCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} } OPTIONAL,
   iE-Extensions
E-DCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-RGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-TimeOffset ::= INTEGER (4..44)
E-HICH-TimeOffsetLCR ::= INTEGER (4..15)
E-DCH-Information ::= SEQUENCE {
    e-PUCH-Information
                                                E-PUCH-Information,
    e-TFCS-Information-TDD
                                                E-TFCS-Information-TDD,
    e-DCH-MACdFlows-Information-TDD
                                                E-DCH-MACdFlows-Information-TDD,
                                                E-DCH-Non-Scheduled-Grant-Info OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info
    e-DCH-TDD-Information
                                                E-DCH-TDD-Information,
                                                ProtocolExtensionContainer { { E-DCH-Information-ExtIEs} }
   iE-Extensions
                                                                                                                         OPTIONAL,
E-DCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-Information ::= SEQUENCE {
    minCR
                                                CodeRate,
```

```
CodeRate,
   maxCR
   harqInfo
                                              HARO-Info-for-E-DCH.
   n-E-UCCH
                                              N-E-UCCH.
   iE-Extensions
                                               OPTIONAL,
E-PUCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-TFCS-Information-TDD ::= SEQUENCE {
   e-DCH-OPSK-RefBetaInfo
                                               E-DCH-OPSK-RefBetaInfo,
   e-DCH-sixteenQAM-RefBetaInfo
                                               E-DCH-sixteenOAM-RefBetaInfo,
   iE-Extensions
                                               ProtocolExtensionContainer { { E-TFCS-Information-TDD-ExtIEs } }
                                                                                                                     OPTIONAL,
E-TFCS-Information-TDD-ExtIES NBAP-PROTOCOL-EXTENSION ::=
E-DCH-QPSK-RefBetaInfo ::= SEQUENCE (SIZE (1...maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-sixteenQAM-RefBetaInfo ::= SEQUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-RefBeta-Item ::= SEQUENCE {
   refCodeRate
                           CodeRate-short,
   refBeta
                           RefBeta
E-DCH-MACdFlows-Information-TDD ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-InfoTDDItem
E-DCH-MACdFlow-InfoTDDItem ::= SEQUENCE {
                                                   E-DCH-MACdFlow-ID,
   e-DCH-MACdFlow-ID
   allocationRetentionPriority
                                                  AllocationRetentionPriority,
   tnl0os
                                                   Tnl0os
                                                                              OPTIONAL,
   bindingID
                                                   BindingID
                                                                              OPTIONAL,
    transportLayerAddress
                                                   TransportLayerAddress
                                                                              OPTIONAL,
                                                   PayloadCRC-PresenceIndicator,
   payloadCRC-PresenceIndicator
   maximum-Number-of-Retransmissions-For-E-DCH
                                                   Maximum-Number-of-Retransmissions-For-E-DCH,
    eDCH-HARO-PO-TDD
                                                   E-DCH-HARO-PO-TDD,
    eDCH-MACdFlow-Multiplexing-List
                                                   E-DCH-MACdFlow-Multiplexing-List
                                                                                                                     OPTIONAL,
    eDCH-Grant-TypeTDD
                                                   E-DCH-Grant-TypeTDD,
    eDCHLogicalChannelInformation
                                                   E-DCH-LogicalChannelInformation.
   eDCH-MACdFlow-Retransmission-Timer
                                                   E-DCH-MACdFlow-Retransmission-Timer
                                                                                          OPTIONAL,
    -- Mandatory for LCR TDD, Not applicable for 3.84Mcps TDD and 7.68Mcps TDD
                                                   ProtocolExtensionContainer { { E-DCH-MACdFlow-InfoTDDItem-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
E-DCH-MACdFlow-InfoTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
E-DCH-MACdFlow-Retransmission-Timer ::= ENUMERATED {
    ms10, ms15, ms20, ms25, ms30, ms35, ms40, ms45, ms50, ms55, ms60, ms65,
   ms70, ms75, ms80, ms85, ms90, ms95, ms100, ms110, ms120, ms140, ms160,
   ms200, ms240, ms280, ms320, ms400, ms480, ms560,...
E-DCH-HARQ-PO-TDD ::= INTEGER (0..6)
E-DCH-Grant-TypeTDD ::= ENUMERATED {
    scheduled.
    non-scheduled
E-DCH-Non-Scheduled-Grant-Info ::= SEQUENCE {
    timeslotResource
                                                E-DCH-TimeslotResource,
    powerResource
                                                E-DCH-PowerResource,
                                                RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                                RepetitionLength,
                                                TddE-PUCH-Offset,
    tddE-PUCH-Offset
    tdd-ChannelisationCode
                                                TDD-ChannelisationCode,
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
E-DCH-Non-Scheduled-Grant-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TimeslotResource ::= BIT STRING (SIZE (13))
E-DCH-TimeslotResourceLCR ::= BIT STRING (SIZE (5))
E-DCH-PowerResource ::= INTEGER(1..32)
TddE-PUCH-Offset ::= INTEGER(0..255)
E-DCH-TDD-Information ::= SEQUENCE {
    e-DCH-TDD-Maximum-Bitrate
                                                     E-DCH-TDD-Maximum-Bitrate
                                                                                                                          OPTIONAL,
                                                                                                                          OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
    e-DCH-PowerOffset-for-SchedulingInfo
                                                     E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-Information-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
E-DCH-TDD-Information-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TDD-Maximum-Bitrate ::= INTEGER (0..9201,...)
E-DCH-Information-Response ::= SEQUENCE {
    e-DCH-TDD-MACdFlow-Specific-InformationResp
                                                     E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
```

```
e-AGCH-Specific-Information-ResponseTDD
                                                     E-AGCH-Specific-InformationRespListTDD OPTIONAL,
    e-RNTI
                                                     E-RNTI.
    scheduled-E-HICH-Specific-InformationResp
                                                     Scheduled-E-HICH-Specific-Information-ResponseLCRTDD
                                                                                                                     OPTIONAL, -- 1.28Mcps TDD only
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-Information-Response-ExtIEs } }
                                                                                                                                         OPTIONAL.
E-DCH-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Scheduled-E-HICH-Specific-Information-ResponseLCRTDD ::= SEQUENCE (SIZE (1.. maxNrOfEHICHCodes)) OF Scheduled-E-HICH-Specific-InformationItem-
ResponseLCRTDD
Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD ::= SEQUENCE
    e-HICH-ID-TDD
                                    E-HICH-ID-TDD,
    iE-Extensions
                                                ProtocolExtensionContainer {{ Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD-ExtIEs}}
       OPTIONAL,
Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-HICH-ID-TDD CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional},
    -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
EI ::= INTEGER (0...3)
E-HICH-ID-TDD ::= INTEGER (0..31)
E-HICH-Type ::= ENUMERATED {scheduled, non-scheduled}
E-DCH-TDD-MACdFlow-Specific-InformationResp ::= SEOUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-TDD-MACdFlow-Specific-InformationResp ::= SEOUENCE
E-DCH-TDD-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    e-DCH-MacdFlow-Id
                                                     E-DCH-MACdFlow-ID,
    bindingID
                                                     BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                 OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-ItemTDD
E-AGCH-Specific-InformationResp-ItemTDD ::= SEQUENCE {
    e-AGCH-Id
                                                     E-AGCH-Id,
```

```
ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL.
E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-Id ::= INTEGER (0..31,...,32..255)
E-DCH-Information-Reconfig ::= SEQUENCE {
    e-PUCH-Information
                                                E-PUCH-Information
                                                                                                                      OPTIONAL.
    e-TFCS-Information-TDD
                                                E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                E-DCH-MACdFlows-to-Delete
                                                                                                                      OPTIONAL,
                                                E-DCH-Non-Scheduled-Grant-Info
    e-DCH-Non-Scheduled-Grant-Info
                                                                                                                      OPTIONAL,
    e-DCH-TDD-Information
                                                E-DCH-TDD-Information
                                                                                                                      OPTIONAL,
    e-DCH-TDD-Information-to-Modify
                                                E-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL,
                                                ProtocolExtensionContainer { { E-DCH-Information-Reconfig-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
E-DCH-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TDD-Information-to-Modify ::= SEQUENCE
    e-DCH-TDD-Information-to-Modify-List
                                            E-DCH-TDD-Information-to-Modify-List
                                                                                     OPTIONAL,
    mACeReset-Indicator
                                            MACeReset-Indicator
                                                                                     OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { E-DCH-TDD-Information-to-Modify-ExtIEs } }
                                                                                                                                  OPTIONAL,
E-DCH-TDD-Information-to-Modify-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-MACdPDUSizeFormat
                                                        CRITICALITY reject EXTENSION E-DCH-MACdPDUSizeFormat
    PRESENCE optional },
    . . .
E-DCH-TDD-Information-to-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-ModifyTDDItem
E-DCH-MACdFlow-ModifyTDDItem ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                     AllocationRetentionPriority
                                                                                     OPTIONAL,
    transportBearerRequestIndicator
                                                     TransportBearerRequestIndicator,
    bindingID
                                                     BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                 OPTIONAL,
    tnl0os
                                                     Tnl0os
                                                                                 OPTIONAL,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH
                                                                                                                      OPTIONAL,
                                                     E-DCH-HARO-PO-TDD
    eDCH-HARO-PO-TDD
                                                                                                                  OPTIONAL,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                                  OPTIONAL,
    eDCH-Grant-TypeTDD
                                                     E-DCH-Grant-TypeTDD
                                                                                                                  OPTIONAL,
    e-DCH-LogicalChannelToAdd
                                                     E-DCH-LogicalChannelInformation
                                                                                                                      OPTIONAL,
```

```
e-DCH-LogicalChannelToModify
                                                     E-DCH-LogicalChannelToModify
                                                                                                                      OPTIONAL,
    e-DCH-LogicalChannelToDelete
                                                     E-DCH-LogicalChannelToDelete
                                                                                                                      OPTIONAL.
    eDCH-MACdFlow-Retransmission-Timer
                                                     E-DCH-MACdFlow-Retransmission-Timer
                                                                                                                      OPTIONAL.
    -- LCR TDD only
    iE-Extensions
                                                     ProtocolExtensionContainer { {E-DCH-MACdFlow-ModifyTDDItem-ExtIEs } }
                                                                                                                                  OPTIONAL,
E-DCH-MACdFlow-ModifyTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in TS 25.123 [23]
E-DCH-768-Information ::= SEQUENCE {
    e-PUCH-Information
                                                E-PUCH-Information,
                                                E-TFCS-Information-TDD
    e-TFCS-Information-TDD
    e-DCH-MACdFlows-Information-TDD
                                                E-DCH-MACdFlows-Information-TDD,
    e-DCH-Non-Scheduled-Grant-Info768
                                                E-DCH-Non-Scheduled-Grant-Info768
                                                                                     OPTIONAL,
    e-DCH-TDD-Information768
                                                E-DCH-TDD-Information768,
                                                ProtocolExtensionContainer { { E-DCH-768-Information-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
E-DCH-768-Information-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-Non-Scheduled-Grant-Info768 ::= SEQUENCE {
    timeslotResource
                                                E-DCH-TimeslotResource,
    powerResource
                                                E-DCH-PowerResource,
    repetitionPeriod
                                                RepetitionPeriod,
                                                RepetitionLength,
    repetitionLength
                                                TddE-PUCH-Offset,
    tddE-PUCH-Offset
    tdd-ChannelisationCode768
                                                TDD-ChannelisationCode768
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info768-ExtIEs } }
                                                                                                                                         OPTIONAL,
E-DCH-Non-Scheduled-Grant-Info768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TDD-Information768 ::= SEOUENCE {
                                                     E-DCH-TDD-Maximum-Bitrate768
    e-DCH-TDD-Maximum-Bitrate768
                                                                                                                          OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
                                                                                                                          OPTIONAL,
    e-DCH-PowerOffset-for-SchedulingInfo
                                                     E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-Information768-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-TDD-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
E-DCH-TDD-Maximum-Bitrate768 ::= INTEGER (0..17713,...)
E-DCH-768-Information-Reconfig ::= SEQUENCE {
    e-PUCH-Information
                                                 E-PUCH-Information
                                                                                                                      OPTIONAL,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                 E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                 E-DCH-MACdFlows-to-Delete
                                                                                                                      OPTIONAL,
                                                 E-DCH-Non-Scheduled-Grant-Info768
    e-DCH-Non-Scheduled-Grant-Info768
                                                                                                                          OPTIONAL,
    e-DCH-TDD-Information768
                                                 E-DCH-TDD-Information768
                                                                                                                          OPTIONAL,
    e-DCH-TDD-Information-to-Modify
                                                 E-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-768-Information-Reconfig-ExtIEs} } OPTIONAL,
    . . .
E-DCH-768-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-LCR-Information ::= SEQUENCE {
    e-PUCH-LCR-Information
                                                 E-PUCH-LCR-Information,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD,
    e-DCH-MACdFlows-Information-TDD
                                                 E-DCH-MACdFlows-Information-TDD,
                                                 E-DCH-Non-Scheduled-Grant-LCR-Info OPTIONAL.
    e-DCH-Non-Scheduled-Grant-LCR-Info
    e-DCH-LCRTDD-Information
                                                 E-DCH-LCRTDD-Information,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-LCR-Information-ExtIEs} }
                                                                                                                          OPTIONAL,
E-DCH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-LCR-Information ::= SEQUENCE {
   minCR
                                                 CodeRate,
    maxCR
                                                 CodeRate,
    harqInfo
                                                 HARO-Info-for-E-DCH,
    pRXdes-base
                                                 PRXdes-base,
    e-PUCH-TPC-StepSize
                                                 TDD-TPC-UplinkStepSize-LCR,
    e-AGCH-TPC-StepSize
                                                 TDD-TPC-DownlinkStepSize,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-PUCH-LCR-Information-ExtIEs } }
                                                                                                                          OPTIONAL,
E-PUCH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-PUCH-PowerControlGAP
                                        CRITICALITY ignore
                                                                 EXTENSION ControlGAP
                                                                                              PRESENCE optional
E-DCH-Non-Scheduled-Grant-LCR-Info ::= SEQUENCE {
    timeslotResourceLCR
                                                E-DCH-TimeslotResourceLCR,
    powerResource
                                                 E-DCH-PowerResource,
                                                 RepetitionPeriod,
    repetitionPeriod
```

```
repetitionLength
                                                RepetitionLength,
    subframeNumber
                                                ENUMERATED {v0, v1},
    tddE-PUCH-Offset
                                                TddE-PUCH-Offset.
    tdd-ChannelisationCode
                                                TDD-ChannelisationCode,
    n-E-UCCHLCR
                                                N-E-UCCHLCR.
    e-HICH-LCR-Information
                                                E-HICH-LCR-Information,
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL.
E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-HICH-LCR-Information ::= SEQUENCE {
    e-HICH-ID-TDD
                                            E-HICH-ID-TDD.
    signatureSequenceGroupIndex
                                                SignatureSequenceGroupIndex,
                                                ProtocolExtensionContainer { { E-HICH-LCR-Information-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
E-HICH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                        CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD
                                                                                                 PRESENCE optional },
    { ID id-Extended-E-HICH-ID-TDD
    -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
E-DCH-LCRTDD-Information ::= SEQUENCE {
    e-DCH-LCRTDD-PhysicalLayerCategory
                                                E-DCH-LCRTDD-PhysicalLayerCategory
                                                                                                                      OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                E-DCH-Processing-Overload-Level
                                                                                                                      OPTIONAL,
    e-DCH-PowerOffset-for-SchedulingInfo
                                                E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                      OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-LCRTDD-Information-ExtIEs }
                                                                                                                          OPTIONAL,
    . . .
E-DCH-LCRTDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory
                                                                             CRITICALITY reject
                                                                                                                      EXTENSION Extended-E-DCH-LCRTDD-
PhysicalLayerCategory
                                PRESENCE optional } |
    -- This IE shall be used if the E-DCH Physical Layer Category has a value larger than 5.
    { ID id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION Maximum-Number-of-
Retransmissions-For-E-DCH
                                PRESENCE optional } |
    { ID id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCRTDD
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION E-DCH-MACdFlow-
Retransmission-Timer
                                PRESENCE optional } |
    { ID id-E-AGCH-UE-Inactivity-Monitor-Threshold
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION E-AGCH-UE-Inactivity-
                            PRESENCE optional }.
Monitor-Threshold
E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER(1..5)
E-DCH-LCR-Information-Reconfig ::= SEQUENCE {
    e-PUCH-LCR-Information
                                                E-PUCH-LCR-Information
                                                                                                                      OPTIONAL,
    e-TFCS-Information-TDD
                                                E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
```

```
E-DCH-MACdFlows-to-Delete
    e-DCH-MACdFlows-to-Delete
                                                                                                                     OPTIONAL,
    e-DCH-Non-Scheduled-Grant-LCR-Info
                                                E-DCH-Non-Scheduled-Grant-LCR-Info
                                                                                                                     OPTIONAL,
    e-DCH-LCRTDD-Information
                                                E-DCH-LCRTDD-Information
                                                                                                                     OPTIONAL.
    e-DCH-TDD-Information-to-Modify
                                                E-DCH-TDD-Information-to-Modify
                                                                                                                     OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-LCR-Information-Reconfig-ExtIEs} } OPTIONAL,
E-DCH-LCR-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Enabling-Delay ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128}
    -- Unit of radio frames
Enabling-Delay-Ext-LCR ::= ENUMERATED {infinity,...}
DormantModeIndicator::= ENUMERATED {
    enterDormantMode,
   leaveDormantMode,
Enhanced-FACH-Capability ::= ENUMERATED {
    enhanced-FACH-capable,
    enhanced-FACH-non-capable
EnhancedHSServingCC-Abort ::= ENUMERATED {abortEnhancedHSServingCC,...}
Enhanced-PCH-Capability ::= ENUMERATED {
    enhanced-PCH-capable,
    enhanced-PCH-non-capable
Enhanced-UE-DRX-Capability ::= ENUMERATED {
    enhanced-UE-DRX-capable,
    enhanced-UE-DRX-non-capable
Enhanced-UE-DRX-InformationFDD ::= SEQUENCE {
                                                T321,
    hS-DSCH-DRX-Cycle-FACH
                                                HS-DSCH-DRX-Cvcle-FACH,
   hS-DSCH-RX-Burst-FACH
                                                HS-DSCH-RX-Burst-FACH,
    dRX-Interruption-by-HS-DSCH
                                                DRX-Interruption-by-HS-DSCH,
                                                     ProtocolExtensionContainer { { Enhanced-UE-DRX-InformationFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
Enhanced-UE-DRX-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
Extended-E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER(6,...)
Ext-Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(19983..22978,...)
Ext-Reference-E-TFCI-PO ::= INTEGER(30..31,...)
ExtendedPropagationDelay ::= INTEGER(255..1023)
Extended-RNC-ID
                                ::= INTEGER (4096..65535)
Extended-Round-Trip-Time-Value ::= INTEGER(32767..103041)
-- See also mapping in TS 25.133 [22]
Extended-HS-SCCH-ID
                                    ::= INTEGER (32..255)
Extended-HS-SICH-ID
                                   ::= INTEGER (32..255)
Extended-E-HICH-ID-TDD
                                   ::= INTEGER (32..255)
E-DCH-Semi-PersistentScheduling-Information-LCR ::= SEQUENCE {
    repetition-Period-List-LCR
                                            Repetition-Period-List-LCR,
    e-DCH-SPS-Indicator
                                            E-DCH-SPS-Indicator,
    sPS-E-DCH-releted-E-HICH-Information
                                            E-HICH-LCR-Information,
                                            ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-LCR-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
E-DCH-Semi-PersistentScheduling-Information-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-DCH-SPS-Reservation-Indicator
                                            CRITICALITY ignore
                                                                    EXTENSION SPS-Reservation-Indicator
                                                                                                                    PRESENCE optional },
E-DCH-SPS-Indicator ::= BIT STRING (SIZE (16))
E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR ::= SEQUENCE {
                                            Repetition-Period-List-LCR
    repetition-Period-List-LCR
                                                                            OPTIONAL,
    e-DCH-SPS-Indicator
                                            E-DCH-SPS-Indicator
                                                                            OPTIONAL,
    sPS-E-DCH-releted-E-HICH-Information
                                            E-HICH-LCR-Information
                                                                            OPTIONAL,
                                            ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs } }
    iE-Extensions
           OPTIONAL,
E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-DCH-SPS-Reservation-Indicator
                                            CRITICALITY ignore
                                                                    EXTENSION SPS-Reservation-Indicator
                                                                                                                    PRESENCE optional }.
E-DCH-Semi-PersistentScheduling-Information-ResponseLCR ::= SEQUENCE {
    timeslot-Resource-Related-Information
                                                E-DCH-TimeslotResourceLCR,
    powerResource
                                                E-DCH-PowerResource,
    repetition-Period-List-LCR
                                                Repetition-Period-List-LCR,
```

```
-- the IE shall be ignored
   repetitionLength
                                           RepetitionLength,
   -- the IE shall be ignored
   subframeNumber
                                           ENUMERATED {v0, v1},
   tddE-PUCH-Offset
                                           TddE-PUCH-Offset.
   tdd-ChannelisationCode
                                           TDD-ChannelisationCode,
   n-E-UCCHLCR
                                           N-E-UCCHLCR.
   iE-Extensions
                                           ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs } }
          OPTIONAL,
   . . .
E-DCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE
                                                                                                         optional },
   -- mandaroty for 1.28Mcps TDD.
Common-E-DCH-Implicit-Release-Timer ::= ENUMERATED
   more-than-zero
-- -----
FACH-Measurement-Occasion-Cycle-Length-Coefficient ::= INTEGER(1..12)
Fast-Reconfiguration-Mode ::= ENUMERATED {fast,...}
Fast-Reconfiguration-Permission ::= ENUMERATED {allowed,...}
FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 511)
-- According to the mapping in TS 25.213 [9]. The maximum value is equal to the DL spreading factor -1--
FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF FDD-DL-CodeInformationItem
FDD-DL-CodeInformationItem ::= SEQUENCE {
   dl-ScramblingCode
                                       DL-ScramblingCode,
   fdd-DL-ChannelisationCodeNumber
                                       FDD-DL-ChannelisationCodeNumber,
   {\tt transmissionGapPatternSequenceCodeInformation}
                                                  {\tt TransmissionGapPatternSequenceCodeInformation}
                                                                                                             OPTIONAL,
   iE-Extensions
                                        OPTIONAL,
   . . .
FDD-DL-CodeInformationItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
FDD-S-CCPCH-FrameOffset ::= ENUMERATED {
   v1, v2, v4, ...
FDD-S-CCPCH-Offset ::= INTEGER (0..149)
```

```
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip (TS 25.211 [7]) --
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
F-DPCH-Capability ::= ENUMERATED {
    f-DPCH-capable,
    f-DPCH-non-capable
F-DPCH-SlotFormat ::= INTEGER (0..9)
F-DPCH-SlotFormatCapability ::= ENUMERATED {
    f-DPCH-slot-format-capable,
    f-DPCH-slot-format-non-capable
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
FNReportingIndicator ::= ENUMERATED {
 fN-reporting-required,
fN-reporting-not-required
FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lowest priority, 15=highest priority --
FrameAdjustmentValue ::= INTEGER(0..4095)
FrameOffset ::= INTEGER (0..255)
FPACH-Power ::= INTEGER (-150..400,...) -- FPACH-power = power * 10
-- If power <= -15 FPACH shall be set to -150
-- If power >= 40 FPACH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
-- -----
GANSS-AddClockModels ::= CHOICE {
    navClockModel
                                   GANSS-NAVclockModel,
```

```
cnavClockModel
                                    GANSS-CNAVclockModel,
    glonassClockModel
                                    GANSS-GLONASSclockModel,
    sbasClockModel
                                    GANSS-SBASclockModel,
GANSS-AddIonoModelReg ::= BIT STRING (SIZE(2))
GANSS-AddNavigationModelsReg ::= BOOLEAN
GANSS-AddOrbitModels ::= CHOICE {
    navKeplerianSet
                                    GANSS-NavModel-NAVKeplerianSet,
    cnavKeplerianSet
                                    GANSS-NavModel-CNAVKeplerianSet,
    glonassECEF
                                    GANSS-NavModel-GLONASSecef,
    sbasECEF
                                    GANSS-NavModel-SBASecef,
GANSS-AddUTCModelsReg ::= BOOLEAN
GANSS-Additional-Ionospheric-Model ::= SEQUENCE {
    dataID
                                        BIT STRING (SIZE(2)),
    alpha-beta-parameters
                                        GPS-Ionospheric-Model,
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-Additional-Ionospheric-Model-ExtIEs } }
                                                                                                                         OPTIONAL,
GANSS-Additional-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Additional-Navigation-Models ::= SEQUENCE {
                                GANSS-Transmission-Time,
    ganss-Transmission-Time
    non-broadcastIndication
                                ENUMERATED { true }
                                                                                                                                 OPTIONAL,
    ganssSatInfoNavList
                                Ganss-Sat-Info-AddNavList,
    ie-Extensions
                                ProtocolExtensionContainer { GANSS-Additional-Navigation-Models-ExtIEs } } OPTIONAL,
GANSS-Additional-Navigation-Models-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Additional-Time-Models ::= SEQUENCE (SIZE (1..maxGANSS-1)) OF GANSS-Time-Model
GANSS-Additional-UTC-Models ::= CHOICE {
    utcModel1
                        GANSS-UTCmodelSet1,
    utcModel2
                        GANSS-UTCmodelSet2,
    utcModel3
                        GANSS-UTCmodelSet3,
```

```
GANSS-Almanac ::= SEQUENCE{
    ganss-wk-number
                                       INTEGER (0..255),
    qANSS-AlmanacModel
                                       GANSS-AlmanacModel,
    ie-Extensions
                                       OPTIONAL,
GANSS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-AlmanacModel ::= CHOICE {
    gANSS-keplerianParameters
                                       GANSS-KeplerianParametersAlm,
    extension-GANSS-AlmanacModel
                                       Extension-GANSS-AlmanacModel
Extension-GANSS-AlmanacModel
                               ::= ProtocolIE-Single-Container {{ Extension-GANSS-AlmanacModel-IE }}
Extension-GANSS-AlmanacModel-IE NBAP-PROTOCOL-IES ::= {
    { ID id-GANSS-alm-keplerianNAVAlmanac
                                                   CRITICALITY
                                                                               TYPE
                                                                                       GANSS-ALM-NAVKeplerianSet
                                                                                                                                     PRESENCE
                                                                   ignore
    mandatory} |
    { ID id-GANSS-alm-keplerianReducedAlmanac
                                                   CRITICALITY
                                                                   ignore
                                                                               TYPE
                                                                                       GANSS-ALM-ReducedKeplerianSet
                                                                                                                              PRESENCE
    mandatory} |
    { ID id-GANSS-alm-keplerianMidiAlmanac
                                                                               TYPE
                                                                                       GANSS-ALM-MidiAlmanacSet
                                                   CRITICALITY
                                                                   ignore
                                                                                                                                     PRESENCE
    mandatory} |
    { ID id-GANSS-alm-keplerianGLONASS
                                                                                       GANSS-ALM-GlonassAlmanacSet
                                                   CRITICALITY
                                                                   ignore
                                                                               TYPE
                                                                                                                                     PRESENCE
    mandatory} |
    { ID id-GANSS-alm-ecefSBASAlmanac
                                                   CRITICALITY
                                                                   ignore
                                                                               TYPE
                                                                                      GANSS-ALM-ECEFsbasAlmanacSet
                                                                                                                              PRESENCE
    mandatory }
GANSS-ALM-ECEFsbasAlmanacSet ::= SEQUENCE {
                               GANSS-SAT-Info-Almanac-SBASecefList,
    sat-info-SBASecefList
    ie-Extensions
                               ProtocolExtensionContainer { GANSS-ALM-ECEFsbasAlmanacSet-ExtIEs } }
                                                                                                                      OPTIONAL,
GANSS-ALM-ECEFsbasAlmanacSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-ALM-GlonassAlmanacSet ::= SEQUENCE {
    sat-info-GLOkpList
                               GANSS-SAT-Info-Almanac-GLOkpList,
    ie-Extensions
                               ProtocolExtensionContainer { GANSS-ALM-GlonassAlmanacSet-ExtIEs } }
                                                                                                                      OPTIONAL,
```

```
GANSS-ALM-GlonassAlmanacSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-ALM-MidiAlmanacSet ::= SEQUENCE {
               INTEGER (0..255),
    {\tt sat-info-MIDIkpList} \qquad \qquad {\tt GANSS-SAT-Info-Almanac-MIDIkpList},
   ie-Extensions
                               ProtocolExtensionContainer { { GANSS-ALM-MidiAlmanacSet-ExtIEs } }
                                                                                                                         OPTIONAL,
GANSS-ALM-MidiAlmanacSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-ALM-NAVKeplerianSet ::= SEQUENCE {
                   INTEGER (0..255),
                        GANSS-SAT-Info-Almanac-NAVkpList,
ProtocolExtensionContainer { { GANSS-ALM-NAVKeplerianSet-ExtlEs } }
    sat-info-NAVkpList
    ie-Extensions
                                                                                                                         OPTIONAL,
GANSS-ALM-NAVKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-ALM-ReducedKeplerianSet ::= SEQUENCE {
                           INTEGER (0..255),
    sat-info-REDkpList
                               GANSS-SAT-Info-Almanac-REDkpList,
    ie-Extensions
                               ProtocolExtensionContainer { GANSS-ALM-ReducedKeplerianSet-ExtIEs } }
                                                                                                                         OPTIONAL,
GANSS-ALM-ReducedKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
GANSS-Auxiliary-Information ::= CHOICE {
    ganssID1
                GANSS-AuxInfoGANSS-ID1,
                                            -- This choice may only be present if GANSS ID indicates Modernized GPS
                GANSS-AuxInfoGANSS-ID3,
                                            -- This choice may only be present if GANSS ID indicates GLONASS
    ganssID3
GANSS-AuxInfoGANSS-ID1 ::= SEQUENCE (SIZE(1.. maxGANSSSat)) OF GANSS-AuxInfoGANSS-ID1-element
```

```
GANSS-AuxInfoGANSS-ID1-element ::= SEQUENCE {
                     INTEGER (0..63),
   signalsAvailable BIT STRING (SIZE(8)),
                     ProtocolExtensionContainer { { GANSS-AuxInfoGANSS-ID1-element-ExtIEs } } OPTIONAL,
   ie-Extensions
GANSS-AuxInfoGANSS-ID1-element-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-AuxInfoGANSS-ID3 ::= SEOUENCE (SIZE(1.. maxGANSSSat)) OF GANSS-AuxInfoGANSS-ID3-element
GANSS-AuxInfoGANSS-ID3-element ::= SEQUENCE {
   svID
          INTEGER (0..63),
   signalsAvailable BIT STRING (SIZE(8)),
    channelNumber INTEGER (-7..13),
   ie-Extensions
                     ProtocolExtensionContainer { { GANSS-AuxInfoGANSS-ID3-element-ExtIEs } } OPTIONAL,
GANSS-AuxInfoGANSS-ID3-element-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-AuxInfoReq ::= BOOLEAN
GANSS-Clock-Model ::= SEQUENCE (SIZE (1..maxGANSSClockMod)) OF GANSS-SatelliteClockModelItem
GANSS-CNAVclockModel ::= SEQUENCE {
   cnavToc
            BIT STRING (SIZE (11)),
   cnavTop
                   BIT STRING (SIZE (11)),
   cnavURA0
                   BIT STRING (SIZE (5)),
   cnavURA1
                   BIT STRING (SIZE (3)),
   cnavURA2
                   BIT STRING (SIZE (3)),
                     BIT STRING (SIZE (10)),
    cnavAf2
   cnavAf1
                   BIT STRING (SIZE (20)),
    cnavAf0
                   BIT STRING (SIZE (26)),
    cnavTqd
                      BIT STRING (SIZE (13)),
    cnavISCl1cp
                      BIT STRING (SIZE (13))
                                                                                   OPTIONAL,
                     BIT STRING (SIZE (13))
   cnavISC11cd
                                                                                   OPTIONAL,
   cnavISCl1ca
                     BIT STRING (SIZE (13))
                                                                                   OPTIONAL,
   cnavISC12c
                     BIT STRING (SIZE (13))
                                                                                   OPTIONAL,
   cnavISC15i5
                   BIT STRING (SIZE (13))
                                                                                   OPTIONAL,
    cnavISC15q5
                   BIT STRING (SIZE (13))
                                                                                   OPTIONAL,
                      ProtocolExtensionContainer { GANSS-CNAVclockModel-ExtIEs } } OPTIONAL,
   ie-Extensions
GANSS-CNAVclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
GANSS-Common-Data ::= SEQUENCE {
   ganss-Ionospheric-Model
                                      GANSS-Ionospheric-Model
   OPTIONAL,
   ganss-Rx-Pos
                                       GANSS-RX-Pos
   OPTIONAL,
   ie-Extensions
                                       OPTIONAL,
GANSS-Common-Data-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-GANSS-Additional-Ionospheric-Model
                                                  CRITICALITY ignore EXTENSION GANSS-Additional-Ionospheric-Model
                                                                                                                     PRESENCE optional } |
    { ID id-GANSS-Earth-Orientation-Parameters
                                                   CRITICALITY ignore EXTENSION GANSS-Earth-Orientation-Parameters
                                                                                                                     PRESENCE optional },
    . . .
GANSS-CommonDataInfoReg ::= SEQUENCE
   ionospheric-Model
                                       BOOLEAN
   OPTIONAL,
   ie-Extensions
                                       ProtocolExtensionContainer { { GANSS-CommonDataInfoReq-ExtIEs } }
                                                                                                                 OPTIONAL,
GANSS-CommonDataInfoReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-GANSS-AddIonoModelReq
                                       CRITICALITY ignore EXTENSION
                                                                      GANSS-AddIonoModelReq
    PRESENCE
               optional} |
    {ID id-GANSS-EarthOrientParaReg
                                       CRITICALITY ignore EXTENSION
                                                                      GANSS-EarthOrientParaReq
                                                                                                                     PRESENCE
                                                                                                                                   optional}
    . . .
GANSS-Data-Bit-Assistance ::= SEQUENCE {
   ganssTod
                                       INTEGER (0..59,...),
   dataBitAssistancelist
                                       GANSS-DataBitAssistanceList,
                                       ProtocolExtensionContainer { GANSS-Data-Bit-Assistance-ExtIEs } }
                                                                                                                 OPTIONAL,
    ie-Extensions
GANSS-Data-Bit-Assistance-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-DataBitAssistanceList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-DataBitAssistanceItem
GANSS-DataBitAssistanceItem ::= SEQUENCE {
                                   INTEGER(0..63),
   dataBitAssistanceSqnList
                                   GANSS-DataBitAssistanceSqnList,
   ie-Extensions
                                   ProtocolExtensionContainer { GANSS-DataBitAssistanceItem-ExtIEs } }
                                                                                                                 OPTIONAL,
```

```
GANSS-DataBitAssistanceItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-DataBitAssistanceSqnList ::= SEQUENCE (SIZE (1..maxSqnType)) OF GANSS-DataBitAssistanceSqnItem
GANSS-DataBitAssistanceSqnItem ::= SEQUENCE {
                           GANSS-Signal-ID,
    ganss-SignalId
                           BIT STRING (SIZE (1..1024)),
    ganssDataBits
                           ProtocolExtensionContainer { GANSS-DataBitAssistanceSqnItem-ExtIEs } }
    ie-Extensions
                                                                                                                    OPTIONAL,
GANSS-DataBitAssistanceSqnItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Data-Bit-Assistance-ReqItem ::= SEQUENCE {
    ganssTod
                                            INTEGER (0..86399),
   ganss-Data-Bit-Assistance-RegList
                                            GANSS-Data-Bit-Assistance-RegList,
                                            ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ReqItem-ExtIEs } } OPTIONAL,
   iE-Extensions
GANSS-Data-Bit-Assistance-Regitem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Data-Bit-Assistance-ReqList ::= SEQUENCE {
    dGANSS-Signal-ID
                                       BIT STRING (SIZE (8)),
    ganss-DataBitInterval
                                        INTEGER (0..15),
    ganss-SatelliteInfo
                                       SEQUENCE (SIZE (1..maxGANSSSat)) OF INTEGER(0..63)
       OPTIONAL,
                                        ProtocolExtensionContainer { GANSS-Data-Bit-Assistance-ReqList-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-ReqList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-DeltaUT1 ::= SEQUENCE {
   b1
                       BIT STRING (SIZE(11)),
                       BIT STRING (SIZE(10)),
    ie-Extensions
                    ProtocolExtensionContainer { { GANSS-DeltaUT1-ExtIEs } }
                                                                                    OPTIONAL,
GANSS-DeltaUT1-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
GANSS-Earth-Orientation-Parameters ::= SEQUENCE {
            BIT STRING (SIZE (16)),
                      BIT STRING (SIZE (21)),
    Xmq
    pmXdot
                     BIT STRING (SIZE (15)),
    Yma
                      BIT STRING (SIZE (21)),
    pmYdot
                     BIT STRING (SIZE (15)),
    deltaUT1
                       BIT STRING (SIZE (31)),
    deltaUT1dot
                       BIT STRING (SIZE (19)),
                       ProtocolExtensionContainer { { GANSS-Earth-Orientation-Parameters-ExtIEs } }
    ie-Extensions
                                                                                                                   OPTIONAL,
GANSS-Earth-Orientation-Parameters-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-EarthOrientParaReg ::= BOOLEAN
GANSS-GenericDataInfoReqList ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-GenericDataInfoReqItem
GANSS-GenericDataInfoRegItem ::= SEQUENCE {
    ganss-Id
                                               GANSS-ID
       OPTIONAL,
    ganss-Navigation-Model-And-Time-Recovery
                                               BOOLEAN
                                                                                                                                      OPTIONAL,
    ganss-Time-Model-GNSS-GNSS
                                               BIT STRING (SIZE (9))
                                                                                                                                      OPTIONAL,
    ganss-UTC-Model
                                               BOOLEAN
                                                                                                                                      OPTIONAL,
    ganss-Almanac
                                               BOOLEAN
                                                                                                                                      OPTIONAL,
    ganss-Real-Time-Integrity
                                               BOOLEAN
                                                                                                                                      OPTIONAL,
                                               GANSS-Data-Bit-Assistance-ReqItem
    ganss-Data-Bit-Assistance-Req
                                                                                                                                      OPTIONAL,
    ie-Extensions
                                               ProtocolExtensionContainer { GANSS-GenericDataInfoReqItem-ExtIEs } }
                                                                                                                               OPTIONAL,
GANSS-GenericDataInfoReqItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-GANSS-AddNavigationModelsReq CRITICALITY ignore EXTENSION
                                                                       GANSS-AddNavigationModelsReg
    PRESENCE
               optional} |
    {ID id-GANSS-AddUTCModelsReq
                                       CRITICALITY ignore EXTENSION
                                                                        GANSS-AddUTCModelsReq
    PRESENCE
               optional} |
    {ID id-GANSS-AuxInfoReq
                                       CRITICALITY ignore EXTENSION
                                                                       GANSS-AuxInfoReq
    PRESENCE
               optional} |
-- The following IE shall be present if "GANSS-ID" in "GANSS-GenericDataInfoReqItem" is "0" (SBAS)
    {ID id-GANSS-SBAS-ID
                                       CRITICALITY ignore EXTENSION GANSS-SBAS-ID
                                                                                                                   PRESENCE
                                                                                                                               optional } ,
GANSS-Generic-Data ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-Generic-DataItem
GANSS-Generic-DataItem ::= SEQUENCE {
```

```
ganss-Id
                                             GANSS-ID
       OPTIONAL,
   dganss-Correction
                                             DGANSSCorrections
       OPTIONAL,
   ganss-Navigation-Model-And-Time-Recovery
                                             GANSS-Navigation-Model-And-Time-Recovery
       OPTIONAL,
                                             GANSS-Time-Model
   ganss-Time-Model
       OPTIONAL,
   ganss-UTC-TIME
                                             GANSS-UTC-Model
       OPTIONAL,
                                             GANSS-Almanac
   ganss-Almanac
       OPTIONAL,
   ganss-Real-Time-Integrity
                                             GANSS-Real-Time-Integrity
       OPTIONAL,
   ganss-Data-Bit-Assistance
                                             GANSS-Data-Bit-Assistance
       OPTIONAL,
                                             ie-Extensions
                                                                                                                       OPTIONAL,
GANSS-Generic-DataItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-GANSS-Additional-Time-Models
                                                CRITICALITY ignore EXTENSION GANSS-Additional-Time-Models
                                                                                                                       PRESENCE optional } |
     ID id-GANSS-Additional-Navigation-Models
                                                CRITICALITY ignore EXTENSION GANSS-Additional-Navigation-Models
                                                                                                                PRESENCE optional }
    ID id-GANSS-Additional-UTC-Models
                                                CRITICALITY ignore EXTENSION GANSS-Additional-UTC-Models
optional }
   { ID id-GANSS-Auxiliary-Information
                                                CRITICALITY ignore EXTENSION GANSS-Auxiliary-Information
                                                                                                                               PRESENCE
optional }
   -- The following element shall be present if "GANSS-ID" in "GANSS-Generic-DataItem" is "0" ("SBAS")
   { ID id-GANSS-SBAS-ID
                                                                                                                PRESENCE optional },
                                                 CRITICALITY ignore EXTENSION GANSS-SBAS-ID
GANSS-GLONASSclockModel ::= SEQUENCE {
   qloTau
                         BIT STRING (SIZE (22)),
   qloGamma
                          BIT STRING (SIZE (11)),
   qloDeltaTau
                          BIT STRING (SIZE (5))
                                                                                          OPTIONAL,
                          OPTIONAL,
   ie-Extensions
GANSS-GLONASSclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-ID ::= INTEGER(0..7,...)
GANSS-Information ::= SEQUENCE {
   qANSS-CommonDataInfoReq
                                     GANSS-CommonDataInfoReq
                                                                                                                OPTIONAL.
   qANSS-GenericDataInfoReqList
                                     GANSS-GenericDataInfoReqList
                                                                                                                OPTIONAL.
   ie-Extensions
                                     ProtocolExtensionContainer { { GANSS-Information-ExtIEs } }
                                                                                                            OPTIONAL,
```

```
GANSS-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                                        BIT STRING (SIZE (12)),
    alpha-one-ionos
                                        BIT STRING (SIZE (12)),
    alpha-two-ionos
                                        BIT STRING (SIZE (12)),
    gANSS-IonosphereRegionalStormFlags GANSS-IonosphereRegionalStormFlags
                                                                                                                     OPTIONAL,
                                        ProtocolExtensionContainer { GANSS-Ionospheric-Model-ExtIEs } }
    ie-Extensions
                                                                                                                     OPTIONAL,
GANSS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-IonosphereRegionalStormFlags ::= SEQUENCE
    storm-flag-one
                                        BOOLEAN,
    storm-flag-two
                                        BOOLEAN
    storm-flag-three
                                        BOOLEAN
    storm-flag-four
                                        BOOLEAN,
    storm-flag-five
                                        BOOLEAN,
                                        ProtocolExtensionContainer { { GANSS-IonosphereRegionalStormFlags-ExtIEs } } OPTIONAL,
    ie-Extensions
GANSS-IonosphereRegionalStormFlags-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-KeplerianParametersAlm ::= SEQUENCE {
    t.-oa
                                        INTEGER(0..255),
    iod-a
                                        INTEGER(0..3),
    gANSS-SatelliteInformationKP
                                        GANSS-SatelliteInformationKP,
    ie-Extensions
                                        ProtocolExtensionContainer { GANSS-KeplerianParametersAlm-ExtIEs } }
                                                                                                                         OPTIONAL,
GANSS-KeplerianParametersAlm-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-KeplerianParametersOrb ::= SEQUENCE {
    toe-nav
                                        BIT STRING (SIZE (14)),
                                        BIT STRING (SIZE (32)),
    ganss-omega-nav
```

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```
delta-n-nav
                                        BIT STRING (SIZE (16)),
    m-zero-nav
                                        BIT STRING (SIZE (32)),
    omegadot-nav
                                        BIT STRING (SIZE (24)),
    ganss-e-nav
                                        BIT STRING (SIZE (32)),
    idot-nav
                                        BIT STRING (SIZE (14)),
    a-sgrt-nav
                                        BIT STRING (SIZE (32)),
    i-zero-nav
                                        BIT STRING (SIZE (32)),
    omega-zero-nav
                                        BIT STRING (SIZE (32)),
    c-rs-nav
                                        BIT STRING (SIZE (16)),
    c-is-nav
                                        BIT STRING (SIZE (16)),
    c-us-nav
                                        BIT STRING (SIZE (16)),
    c-rc-nav
                                        BIT STRING (SIZE (16)),
    c-ic-nav
                                        BIT STRING (SIZE (16)),
    c-uc-nav
                                        BIT STRING (SIZE (16)),
    ie-Extensions
                                        ProtocolExtensionContainer { GANSS-KeplerianParametersOrb-ExtIEs } }
                                                                                                                         OPTIONAL,
GANSS-KeplerianParametersOrb-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-NAVclockModel ::= SEQUENCE {
   navToc
                           BIT STRING (SIZE (16)),
   navaf2
                           BIT STRING (SIZE (8)),
   navaf1
                           BIT STRING (SIZE (16)),
   navaf0
                           BIT STRING (SIZE (22)),
   navTqd
                           BIT STRING (SIZE (8)),
                           ProtocolExtensionContainer { GANSS-NAVclockModel-ExtIEs } }
    ie-Extensions
                                                                                            OPTIONAL,
GANSS-NAVclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Navigation-Model-And-Time-Recovery ::= SEQUENCE {
    ganss-Transmission-Time
                                GANSS-Transmission-Time,
                                ENUMERATED{true}
                                                        OPTIONAL,
    non-broadcastIndication
                                GANSS-Sat-Info-Nav,
    ganssSatInfoNav
    ie-Extensions
                                ProtocolExtensionContainer { GANSS-Navigation-Model-And-Time-Recovery-ExtIEs } } OPTIONAL,
GANSS-Navigation-Model-And-Time-Recovery-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
GANSS-NavModel-CNAVKeplerianSet ::= SEQUENCE {

        CONSTRUCT
        <t
           cnavTop
                                       BIT STRING (SIZE (11)),
                                                                    ProtocolExtensionContainer { GANSS-NavModel-CNAVKeplerianSet-ExtIEs } }
           ie-Extensions
                                                                                                                                                                                                                                                                                                                             OPTIONAL,
GANSS-NavModel-CNAVKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-NavModel-GLONASSecef ::= SEQUENCE {
           qloEn
                                 BIT STRING (SIZE (5)),
           qloP1
                                                                    BIT STRING (SIZE(2)),
           gloP2
                                                                    BIT STRING (SIZE (1)),
                                                                      BIT STRING (SIZE (2))
           qloM
           OPTIONAL,
                                                    BIT STRING (SIZE (27)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (5)),
BIT STRING (SIZE (27)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (5)),
BIT STRING (SIZE (27)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (24)),
BIT STRING (SIZE (5)),
           aloX
           qloXdot
           gloXdotdot
           qloY
           gloYdot
           gloYdotdot
           qloZ
           gloZdot
           gloZdotdot
           ie-Extensions
                                                                     OPTIONAL,
GANSS-NavModel-GLONASSecef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-NavModel-NAVKeplerianSet ::= SEQUENCE {
```

```
navURA
                           BIT STRING (SIZE (4)),
   navFitFlag
                           BIT STRING (SIZE (1)),
    navToe
                           BIT STRING (SIZE (16)),
    navOmega
                         BIT STRING (SIZE (32)),
   navDeltaN
                         BIT STRING (SIZE (16)),
    navM0
                          BIT STRING (SIZE (32)),
    navOmegaADot
                           BIT STRING (SIZE (24)),
                           BIT STRING (SIZE (32)),
    navIDot
                           BIT STRING (SIZE (14)),
    navAPowerHalf
                           BIT STRING (SIZE (32)),
    navI0
                           BIT STRING (SIZE (32)),
                           BIT STRING (SIZE (32)),
    navOmegaA0
                           BIT STRING (SIZE (16)),
    navCrs
    navCis
                         BIT STRING (SIZE (16)),
    navCus
                         BIT STRING (SIZE (16)),
                        BIT STRING (SIZE (16)),
BIT STRING (SIZE (16)),
    navCrc
    navCic
    navCuc
                         BIT STRING (SIZE (16)),
                           ProtocolExtensionContainer { { GANSS-NavModel-NAVKeplerianSet-ExtIEs } }
    ie-Extensions
                                                                                                                    OPTIONAL,
GANSS-NavModel-NAVKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-NavModel-SBASecef ::= SEQUENCE {
    -- The following IE shall be present if "GANSS-SBASclockModel" in "GANSS-AddClockModels" is not included in "Ganss-Sat-Info-AddNavList"
    sbasTo
                           BIT STRING (SIZE (13))
                                                                                                OPTIONAL,
    sbasAccuracy
                           BIT STRING (SIZE (4)),
                         BIT STRING (SIZE (30)),
    sbasXg
    sbasYg
                           BIT STRING (SIZE (30)),
    sbasZg
                           BIT STRING (SIZE (25)),
    sbasXqDot
                        BIT STRING (SIZE (17)),
    sbasYqDot
                         BIT STRING (SIZE (17)),
    sbasZqDot
                         BIT STRING (SIZE (18)),
                       BIT STRING (SIZE (10)),
BIT STRING (SIZE (10)),
    sbasXgDotDot
    sbaqYqDotDot
                           BIT STRING (SIZE (10)),
    sbasZqDotDot
                           BIT STRING (SIZE (10)),
                           ProtocolExtensionContainer { GANSS-NavModel-SBASecef-ExtIEs } }
    ie-Extensions
GANSS-NavModel-SBASecef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Orbit-Model ::= CHOICE {
    gANSS-keplerianParameters
                                        GANSS-KeplerianParametersOrb,
```

```
GANSS-Real-Time-Integrity ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-RealTimeInformationItem
GANSS-RealTimeInformationItem ::= SEQUENCE {
   bad-ganss-satId
                                    INTEGER (0..63),
   bad-ganss-signalId
                                    BIT STRING(SIZE(8))
                                                                                                         OPTIONAL,
   ie-Extensions
                                    OPTIONAL,
   . . .
GANSS-RealTimeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
   . . .
GANSS-RX-Pos ::= SEQUENCE {
   latitudeSign
                                    ENUMERATED{north, south},
   degreesOfLatitude
                                    INTEGER (0..2147483647),
   degreesOfLongitude
                                    INTEGER (-2147483648..2147483647),
   directionOfAltitude
                                    ENUMERATED{height, depth},
   altitude
                                    INTEGER (0..32767),
                                    ProtocolExtensionContainer { { GANSS-RX-Pos-ExtIEs } } OPTIONAL,
   ie-Extensions
GANSS-RX-Pos-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SatelliteClockModelItem ::= SEQUENCE {
   t.-oc
                                    BIT STRING (SIZE (14)),
   a-i2
                                    BIT STRING (SIZE (12)),
   a-i1
                                    BIT STRING (SIZE (18)),
   a-i0
                                    BIT STRING (SIZE (28)),
   t-qd
                                    BIT STRING (SIZE (10))
                                                                                                         OPTIONAL,
   model-id
                                    INTEGER (0..1,...)
                                                                                                         OPTIONAL,
   ie-Extensions
                                    OPTIONAL,
GANSS-SatelliteClockModelItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
GANSS-SatelliteInformationKP ::= SEOUENCE (SIZE (1..maxGANSSSatAlmanac)) OF GANSS-SatelliteInformationKPItem
```

```
GANSS-SatelliteInformationKPItem ::= SEOUENCE {
    satId
                                       INTEGER (0..63),
    ganss-e-alm
                                       BIT STRING (SIZE (11)),
    ganss-delta-I-alm
                                       BIT STRING (SIZE (11)),
    ganss-omegadot-alm
                                    BIT STRING (SIZE (11)),
    ganss-svhealth-alm
                                    BIT STRING (SIZE (4)),
    ganss-delta-a-sgrt-alm
                                       BIT STRING (SIZE (17)),
    ganss-omegazero-alm
                                       BIT STRING (SIZE (16)),
    ganss-m-zero-alm
                                       BIT STRING (SIZE (16)),
    ganss-omega-alm
                                       BIT STRING (SIZE (16)),
    ganss-af-zero-alm
                                       BIT STRING (SIZE (14)),
    ganss-af-one-alm
                                       BIT STRING (SIZE (11)),
                                       ProtocolExtensionContainer { { GANSS-SatelliteInformationKPItem-ExtIEs } } OPTIONAL,
    ie-Extensions
GANSS-SatelliteInformationKPItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Ganss-Sat-Info-AddNavList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
    satId
                               INTEGER (0..63),
    svHealth
                               BIT STRING (SIZE (6)),
    iod
                               BIT STRING (SIZE (11)),
    ganssAddClockModels
                               GANSS-AddClockModels,
    ganssAddOrbitModels
                               GANSS-AddOrbitModels,
    ie-Extensions
                               ProtocolExtensionContainer { { Ganss-Sat-Info-AddNavList-ExtIEs } } OPTIONAL,
Ganss-Sat-Info-AddNavList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SAT-Info-Almanac-GLOkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-GLOkp
GANSS-SAT-Info-Almanac-GLOkp ::= SEQUENCE {
    gloAlmNA
                           BIT STRING (SIZE(11)),
    qloAlmnA
                           BIT STRING (SIZE(5)),
    gloAlmHA
                         BIT STRING (SIZE(5)),
                     BIT STRING (SIZE(21)),
BIT STRING (SIZE(21)),
    qloAlmLambdaA
    qloAlmTlambdaA
    gloAlmDeltaIA
                           BIT STRING (SIZE(18)),
    gloAkmDeltaTA
                           BIT STRING (SIZE(22)),
                           BIT STRING (SIZE(7)),
    qloAlmDeltaTdotA
    qloAlmEpsilonA
                           BIT STRING (SIZE(15)),
    gloAlmOmegaA
                           BIT STRING (SIZE(16)),
    gloAlmTauA
                           BIT STRING (SIZE(10)),
    qloAlmCA
                           BIT STRING (SIZE(1)),
    gloAlmMA
                           BIT STRING (SIZE(2))
    OPTIONAL,
```

```
ProtocolExtensionContainer { GANSS-SAT-Info-Almanac-GLOkp-ExtIEs } }
    ie-Extensions
                                                                                                                   OPTIONAL,
GANSS-SAT-Info-Almanac-GLOkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SAT-Info-Almanac-MIDIkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-MIDIkp
GANSS-SAT-Info-Almanac-MIDIkp ::= SEQUENCE {
    svID
                           INTEGER (0..63),
   midiAlmE
                           BIT STRING (SIZE (11)),
   midiAlmDeltaI
                         BIT STRING (SIZE (11)),
   midiAlmOmegaDot
                           BIT STRING (SIZE (11)),
   midiAlmSgrtA
                           BIT STRING (SIZE (17)),
    midiAlmOmega0
                           BIT STRING (SIZE (16)),
    midiAlmOmega
                           BIT STRING (SIZE (16)),
    midiAlmMo
                           BIT STRING (SIZE (16)),
    midiAlmaf0
                         BIT STRING (SIZE (11)),
    midiAlmaf1
                           BIT STRING (SIZE (10)),
    midiAlmL1Health
                           BIT STRING (SIZE (1)),
    midiAlmL2Health
                           BIT STRING (SIZE (1)),
    midiAlmL5Health
                           BIT STRING (SIZE (1)),
    ie-Extensions
                           ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-MIDIkp-ExtIEs } }
                                                                                                                   OPTIONAL.
GANSS-SAT-Info-Almanac-MIDIkp-ExtIES NBAP-PROTOCOL-EXTENSION ::=
GANSS-SAT-Info-Almanac-NAVkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-NAVkp
GANSS-SAT-Info-Almanac-NAVkp ::= SEQUENCE {
    svID
                           INTEGER (0..63),
    navAlmE
                           BIT STRING (SIZE (16)),
    navAlmDeltaI
                           BIT STRING (SIZE (16)),
    navAlmOMEGADOT
                           BIT STRING (SIZE (16)),
    navAlmSVHealth
                           BIT STRING (SIZE (8)),
    navAlmSqrtA
                           BIT STRING (SIZE (24)),
    navAlmOMEGAo
                           BIT STRING (SIZE (24)),
    navAlmOmega
                           BIT STRING (SIZE (24)),
    navAlmMo
                           BIT STRING (SIZE (24)),
    navAlmaf0
                           BIT STRING (SIZE (11)),
    navAlmaf1
                           BIT STRING (SIZE (11)),
    ie-Extensions
                           ProtocolExtensionContainer { GANSS-SAT-Info-Almanac-NAVkp-ExtIEs } }
                                                                                                                   OPTIONAL,
```

```
GANSS-SAT-Info-Almanac-NAVkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SAT-Info-Almanac-REDkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-REDkp
GANSS-SAT-Info-Almanac-REDkp ::= SEQUENCE {
    svID
               INTEGER(0..63),
   redAlmDeltaA BIT STRING (SIZE (8)),
redAlmOmega0 BIT STRING (SIZE (7)),
redAlmPhi0 BIT STRING (SIZE (7)),
redAlmL1Health BIT STRING (SIZE (1)),
redAlmL2Health BIT STRING (SIZE (1)),
redAlmL5Health BIT STRING (SIZE (1)),
                      ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-REDkp-ExtIEs } }
    ie-Extensions
                                                                                                                                     OPTIONAL,
GANSS-SAT-Info-Almanac-REDkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SAT-Info-Almanac-SBASecefList ::= SEOUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-SBASecef
GANSS-SAT-Info-Almanac-SBASecef ::= SEQUENCE
    sbasAlmDataID
                      BIT STRING (SIZE(2)),
    svID
                               INTEGER (0..63),
                       BIT STRING (SIZE(8)),
BIT STRING (SIZE(15)),
    sbasAlmHealth
    sbasAlmXq
    sbasAlmYq
                            BIT STRING (SIZE(15)),
    sbasAlmZq
                             BIT STRING (SIZE(9)),
                         BIT STRING (SIZE(3)),
BIT STRING (SIZE(3)),
BIT STRING (SIZE(4)),
BIT STRING (SIZE(4)),
    sbasAlmXqdot
    sbasAlmYqDot
    sbasAlmZqDot
    sbasAlmTo
                               BIT STRING (SIZE(11)),
                               ProtocolExtensionContainer { GANSS-SAT-Info-Almanac-SBASecef-ExtIEs } }
    ie-Extensions
                                                                                                                                     OPTIONAL
GANSS-SAT-Info-Almanac-SBASecef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Sat-Info-Nav ::= SEQUENCE (SIZE(1..maxGANSSSat)) OF SEQUENCE {
    satId
                               INTEGER(0..63),
    svHealth
                                 BIT STRING (SIZE(5)),
    iod
                                    BIT STRING (SIZE(10)),
    ganssClockModel
                                    GANSS-Clock-Model,
```

```
qanssOrbitModel
                                GANSS-Orbit-Model,
    ie-Extensions
                                ProtocolExtensionContainer { GANSS-Sat-Info-Nav-ExtIEs } } OPTIONAL,
GANSS-Sat-Info-Nav-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SBAS-ID ::= ENUMERATED
                                waas,
                                egnos,
                                msas,
                                gagan,
GANSS-SBASclockModel ::= SEQUENCE {
    sbasTo
                           BIT STRING (SIZE (13)),
    sbasAgfo
                           BIT STRING (SIZE (12)),
    sbasAqf1
                           BIT STRING (SIZE (8)),
                            ProtocolExtensionContainer { { GANSS-SBASclockModel-ExtIEs } } OPTIONAL,
    ie-Extensions
GANSS-SBASclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Signal-ID ::= INTEGER(0..7,...)
GANSS-StatusHealth ::= ENUMERATED {
  udre-scale-1dot0.
  udre-scale-0dot75,
  udre-scale-0dot5.
  udre-scale-0dot3,
  udre-scale-0dot2,
  udre-scale-0dot1,
  no-data,
   invalid-data
GANSS-Time-ID ::= INTEGER(0..7,...)
GANSS-Time-Model ::= SEQUENCE {
    ganss-time-model-Ref-Time
                                        INTEGER (0..37799),
    ganss-t-a0
                                        INTEGER (-2147483648.. 2147483647),
    ganss-t-a1
                                        INTEGER (-8388608.. 8388607)
```

OPTIONAL,

```
qanss-t-a2
                                        INTEGER (-64..63)
                                                                                                                      OPTIONAL,
   gnss-to-id
                                        ENUMERATED{gps,...,galileo,qzss,glonass},
                                        INTEGER (0..8191)
    ganss-wk-number
                                                                                                                      OPTIONAL.
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-Time-Model-ExtIEs } }
                                                                                                                      OPTIONAL,
GANSS-Time-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Transmission-Time ::= SEQUENCE {
    qanssDay
                                INTEGER (0..8191)
   OPTIONAL,
    ganssTod
                                INTEGER (0..86399),
                                ProtocolExtensionContainer { GANSS-Transmission-Time-ExtIEs } }
    ie-Extensions
   OPTIONAL,
    . . .
GANSS-Transmission-Time-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-UTC-Model ::= SEQUENCE {
                                        BIT STRING (SIZE (24)),
   a-one-utc
   a-zero-utc
                                        BIT STRING (SIZE (32)),
   t-ot-utc
                                        BIT STRING (SIZE (8)),
    w-n-t-utc
                                        BIT STRING (SIZE (8)),
    delta-t-ls-utc
                                        BIT STRING (SIZE (8)),
   w-n-lsf-utc
                                        BIT STRING (SIZE (8)),
    dn-utc
                                        BIT STRING (SIZE (8)),
    delta-t-lsf-utc
                                        BIT STRING (SIZE (8)),
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-UTC-Model-ExtIEs } }
                                                                                                                     OPTIONAL,
GANSS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-UTCmodelSet1 ::= SEQUENCE {
                        BIT STRING (SIZE(16)),
    utcA0
    utcA1
                       BIT STRING (SIZE(13)),
   utcA2
                       BIT STRING (SIZE(7)),
                       BIT STRING (SIZE(8)),
    utcDeltaTls
    utcTot
                        BIT STRING (SIZE(16)),
    utcWNot
                       BIT STRING (SIZE(13)),
```

```
utcWNlsf
                      BIT STRING (SIZE(8)),
   ut.cDN
                      BIT STRING (SIZE(4)),
   utcDeltaTlsf
                      BIT STRING (SIZE(8)),
   ie-Extensions
                      OPTIONAL.
GANSS-UTCmodelSet1-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-UTCmodelSet2 ::= SEOUENCE {
                     BIT STRING (SIZE(11)),
   tauC
                     BIT STRING (SIZE(32)),
   deltaUT1
                    GANSS-DeltaUT1
                                                                                   OPTIONAL,
                     BIT STRING (SIZE(2))
                                                                                   OPTIONAL,
                     ProtocolExtensionContainer { { GANSS-UTCmodelSet2-ExtIEs } }
   ie-Extensions
                                                                                   OPTIONAL,
GANSS-UTCmodelSet2-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-UTCmodelSet3 ::= SEQUENCE {
   utcA1wnt
                     BIT STRING (SIZE(24)),
                      BIT STRING (SIZE(32)),
   utcA0wnt
   utcTot
                     BIT STRING (SIZE(8)),
   utcWNt
                     BIT STRING (SIZE(8)),
   utcDeltaTls
                     BIT STRING (SIZE(8)),
   utcWNlsf
                     BIT STRING (SIZE(8)),
   utcDN
                     BIT STRING (SIZE(8)),
   utcDeltaTlsf
                   BIT STRING (SIZE(8)),
   utcStandardID
                     BIT STRING (SIZE(3)),
                      ProtocolExtensionContainer { { GANSS-UTCmodelSet3-ExtIEs } }
   ie-Extensions
                                                                                  OPTIONAL,
GANSS-UTCmodelSet3-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GapLength
                     ::= INTEGER (1..14)
-- Unit slot
                      ::= INTEGER (1..144,...)
GapDuration
-- Unit frame
GenericTrafficCategory ::= BIT STRING (SIZE (8))
GPS-Almanac ::= SEQUENCE {
```

optional},

PRESENCE

```
BIT STRING (SIZE (8)),
    wn<sub>a</sub>-alm
   sat-info-almanac
                        SAT-Info-Almanac,
    sVGlobalHealth-alm BIT STRING (SIZE (364)) OPTIONAL,
    ie-Extensions
                         ProtocolExtensionContainer { GPS-Almanac-ExtIEs} }
                                                                                     OPTIONAL,
GPS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SAT-Info-Almanac-ExtItem
                                       CRITICALITY ignore
                                                                EXTENSION
                                                                            SAT-Info-Almanac-ExtList
    . . .
GPS-Ionospheric-Model ::= SEQUENCE {
   alpha-zero-ionos
                     BIT STRING (SIZE (8)),
   alpha-one-ionos
                        BIT STRING (SIZE (8)),
   alpha-two-ionos
                        BIT STRING (SIZE (8)),
   alpha-three-ionos
                        BIT STRING (SIZE (8)),
  beta-zero-ionos
                        BIT STRING (SIZE (8)),
  beta-one-ionos
                         BIT STRING (SIZE (8)),
   beta-two-ionos
                         BIT STRING (SIZE (8)),
  beta-three-ionos
                         BIT STRING (SIZE (8)),
   ie-Extensions
                         ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs} }
                                                                                             OPTIONAL,
GPS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GPS-Information ::= SEQUENCE (SIZE (0..maxNoGPSItems)) OF GPS-Information-Item
-- This IE shall be present if the Information Type Item IE indicates "GPS Information"
GPS-Information-Item ::= ENUMERATED {
   qps-navigation-model-and-time-recovery,
   qps-ionospheric-model,
  gps-utc-model,
  qps-almanac,
  qps-rt-integrity,
GPS-RealTime-Integrity ::= CHOICE {
    bad-satellites
                                GPSBadSat-Info-RealTime-Integrity,
    no-bad-satellites
                                NULL
GPSBadSat-Info-RealTime-Integrity ::= SEQUENCE {
    sat-info
                                    SATInfo-RealTime-Integrity,
```

```
ie-Extensions
                                    ProtocolExtensionContainer { { GPSBadSat-Info-RealTime-Integrity-ExtIEs} } }
                                                                                                                         OPTIONAL,
GPSBadSat-Info-RealTime-Integrity-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GPS-NavigationModel-and-TimeRecovery ::= SEQUENCE (SIZE (1..maxNoSat)) OF GPS-NavandRecovery-Item
GPS-NavandRecovery-Item ::= SEQUENCE {
                                   INTEGER (0..1048575),
  tx-tow-nav
  sat-id-nav
                                   SAT-ID,
  tlm-message-nav
                                   BIT STRING (SIZE (14)),
  tlm-revd-c-nav
                                   BIT STRING (SIZE (2)),
 ho-word-nav
                                   BIT STRING (SIZE (22)),
 w-n-nav
                                   BIT STRING (SIZE (10)),
  ca-or-p-on-12-nav
                                   BIT STRING (SIZE (2)).
 user-range-accuracy-index-nav
                                   BIT STRING (SIZE (4)),
  sv-health-nav
                                   BIT STRING (SIZE (6)),
  iodc-nav
                                   BIT STRING (SIZE (10)),
 12-p-dataflag-nav
                                   BIT STRING (SIZE (1)),
  sf1-reserved-nav
                                   BIT STRING (SIZE (87)),
  t-qd-nav
                                   BIT STRING (SIZE (8)),
  t-oc-nav
                                   BIT STRING (SIZE (16)),
  a-f-2-nav
                                   BIT STRING (SIZE (8)),
  a-f-1-nav
                                   BIT STRING (SIZE (16)),
 a-f-zero-nav
                                   BIT STRING (SIZE (22)),
  c-rs-nav
                                   BIT STRING (SIZE (16)),
 delta-n-nav
                                   BIT STRING (SIZE (16)),
 m-zero-nav
                                   BIT STRING (SIZE (32)),
  c-uc-nav
                                   BIT STRING (SIZE (16)),
                                   BIT STRING (SIZE (32)),
  qps-e-nav
  c-us-nav
                                   BIT STRING (SIZE (16)),
  a-sgrt-nav
                                   BIT STRING (SIZE (32)),
  t-oe-nav
                                   BIT STRING (SIZE (16)),
                                   BIT STRING (SIZE (1)),
  fit-interval-flag-nav
  aodo-nav
                                   BIT STRING (SIZE (5)),
 c-ic-nav
                                   BIT STRING (SIZE (16)),
  omega-zero-nav
                                   BIT STRING (SIZE (32)),
 c-is-nav
                                   BIT STRING (SIZE (16)),
 i-zero-nav
                                   BIT STRING (SIZE (32)),
 c-rc-nav
                                   BIT STRING (SIZE (16)),
                                   BIT STRING (SIZE (32)),
  qps-omega-nav
 omegadot-nav
                                   BIT STRING (SIZE (24)),
 idot-nav
                                   BIT STRING (SIZE (14)),
  spare-zero-fill
                                   BIT STRING (SIZE (20)),
 ie-Extensions
                                   ProtocolExtensionContainer { { GPS-NavandRecovery-Item-ExtIEs} }
                                                                                                                         OPTIONAL,
```

```
GPS-NavandRecovery-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GPS-RX-POS ::= SEQUENCE {
    latitudeSign
                              ENUMERATED {north, south},
    latitude
                              INTEGER (0..8388607),
    longitude
                              INTEGER (-8388608..8388607),
    directionOfAltitude
                              ENUMERATED {height, depth},
    altitude
                              INTEGER (0..32767),
                              ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
GPS-RX-POS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Status-Health ::= ENUMERATED {
   udre-scale-1dot0,
   udre-scale-0dot75,
   udre-scale-0dot5,
   udre-scale-0dot3,
   udre-scale-0dot1,
   no-data,
   invalid-data
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
   a-one-utc
                  BIT STRING (SIZE (24)),
                  BIT STRING (SIZE (32)),
BIT STRING (SIZE (8)),
   a-zero-utc
   t-ot-utc

      delta-t-ls-utc
      BIT STRING (SIZE (8)),

      w-n-t-utc
      BIT STRING (SIZE (8)),

      w-n-lsf-utc
      BIT STRING (SIZE (8)),

   dn-utc
                       BIT STRING (SIZE (8)),
   delta-t-lsf-utc BIT STRING (SIZE (8)),
                           ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs} }
   ie-Extensions
                                                                                            OPTIONAL,
GPS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- -----
```

```
HARO-Info-for-E-DCH ::= ENUMERATED {
   rv0.
   rvtable
HARO-MemoryPartitioning ::= CHOICE {
   implicit
                  HARQ-MemoryPartitioning-Implicit,
                  HARQ-MemoryPartitioning-Explicit,
   explicit
HARO-MemoryPartitioning-Implicit ::= SEQUENCE {
   number-of-Processes
                             INTEGER (1..8,...,12|14|16),
   iE-Extensions
                             ProtocolExtensionContainer { { HARO-MemoryPartitioning-Implicit-ExtIEs } }
                                                                                                                       OPTIONAL,
   . . .
HARO-MemoryPartitioning-Implicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HARO-MemoryPartitioning-Explicit
                               ::= SEOUENCE {
   hARQ-MemoryPartitioningList
                                HARQ-MemoryPartitioningList,
   iE-Extensions
                                     ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Explicit-ExtIEs } }
                                                                                                                              OPTIONAL,
   . . .
HARQ-MemoryPartitioning-Explicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- The following IE may only be used in FDD, in MIMO dual stream transmission mode
   . . .
HARQ-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQ-MemoryPartitioningItem
HARO-MemoryPartitioningInfoExtForMIMO ::= SEQUENCE (SIZE (4 | 6 | 8)) OF HARO-MemoryPartitioningItem
HARO-MemoryPartitioningItem ::= SEQUENCE
   process-Memory-Size
                                     ENUMERATED {
                                     hms800, hms1600, hms2400, hms3200, hms4000,
                                     hms4800, hms5600, hms6400, hms7200, hms8000,
                                     hms8800, hms9600, hms10400, hms11200, hms12000,
                                     hms12800, hms13600, hms14400, hms15200, hms16000
                                     hms17600, hms19200, hms20800, hms22400, hms24000,
                                     hms25600, hms27200, hms28800, hms30400, hms32000,
                                     hms36000, hms40000, hms44000, hms48000, hms52000,
                                     hms56000, hms60000, hms64000, hms68000, hms72000,
                                     hms76000, hms80000, hms88000, hms96000, hms104000,
                                     hms112000, hms120000, hms128000, hms136000, hms144000,
                                     hms152000, hms160000, hms176000, hms192000, hms208000,
                                     hms224000, hms240000, hms256000, hms272000, hms288000,
                                     hms304000,...},
```

```
ProtocolExtensionContainer { { HARQ-MemoryPartitioningItem-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
HARO-MemoryPartitioningItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HARQ-Preamble-Mode ::= ENUMERATED {
   mode0,
   mode1
HARO-Process-Allocation-2ms-EDCH ::= BIT STRING ( SIZE(maxNrOfEDCHHAROProcesses2msEDCH) )
HARO-Preamble-Mode-Activation-Indicator ::=ENUMERATED
    hargPreambleModeActivated
HSDPA-Capability ::= ENUMERATED {hsdpa-capable, hsdpa-non-capable}
HS-DSCHProvidedBitRate ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHProvidedBitRate-Item
HS-DSCHProvidedBitRate-Item ::= SEQUENCE {
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    hS-DSCHProvidedBitRateValue
                                        HS-DSCHProvidedBitRateValue,
    iE-Extensions
                                        ProtocolExtensionContainer { { HS-DSCHProvidedBitRate-Item-ExtIEs} }
                                                                                                                         OPTIONAL,
HS-DSCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHProvidedBitRateValue ::= INTEGER(0..16777215,...,16777216..256000000)
-- except for 7.68Mcps TDD Unit bit/s, Range 0..2^24-1..2^24..256,000,000, Step 1 bit
-- 7.68Mcps TDD Unit 2bit/s, Range 0..2^24-1..2^24..256,000,000, Step 1
HS-DSCHProvidedBitRateValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-
DSCHProvidedBitRateValueInformation-For-CellPortion-Item
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item ::= SEQUENCE{
                                    CellPortionID,
    cellPortionID
    hS-DSCHProvidedBitRateValue
                                    HS-DSCHProvidedBitRate,
    iE-Extensions
                                    ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} }
    OPTIONAL,
    . . .
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF HS-
DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item
HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item ::= SEQUENCE{
    cellPortionLCRID
                                      CellPortionLCRID,
   hS-DSCHProvidedBitRateValue
                                  HS-DSCHProvidedBitRate,
                                  ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHRequiredPower ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHRequiredPower-Item
HS-DSCHRequiredPower-Item ::= SEQUENCE {
    schedulingPriorityIndicator
                                          SchedulingPriorityIndicator,
   hS-DSCHRequiredPowerValue
                                          HS-DSCHRequiredPowerValue,
   hS-DSCHRequiredPowerPerUEInformation
                                          HS-DSCHRequiredPowerPerUEInformation
                                                                                                                    OPTIONAL,
                                          ProtocolExtensionContainer { { HS-DSCHRequiredPower-Item-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
    . . .
HS-DSCHRequiredPower-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHRequiredPowerValue ::= INTEGER(0..1000)
-- Unit %, Range 0 ..1000, Step 0.1%
HS-DSCHRequiredPowerPerUEInformation ::= SEQUENCE (SIZE (1.. maxNrOfContextsOnUeList)) OF HS-DSCHRequiredPowerPerUEInformation-Item
HS-DSCHRequiredPowerPerUEInformation-Item ::= SEQUENCE {
    cRNC-CommunicationContextID
                                          CRNC-CommunicationContextID,
   hS-DSCHRequiredPowerPerUEWeight
                                          HS-DSCHRequiredPowerPerUEWeight
                                                                             OPTIONAL,
   iE-Extensions
                                          OPTIONAL,
    . . .
HS-DSCHRequiredPowerPerUEInformation-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHRequiredPowerPerUEWeight ::= INTEGER(0..100)
-- Unit %, Range 0 ..100, Step 1%
HS-DSCHRequiredPowerValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-DSCHRequiredPowerValueInformation-
For-CellPortion-Item
HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item ::= SEQUENCE{
```

```
cellPortionID
                              CellPortionID,
   hS-DSCHRequiredPowerValue
                              HS-DSCHRequiredPower,
   iE-Extensions
                              OPTIONAL,
    . . .
HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF HS-
DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item
HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item ::= SEQUENCE{
    cellPortionLCRID
                                  CellPortionLCRID,
   hS-DSCHRequiredPowerValue
                              HS-DSCHRequiredPower,
                              ProtocolExtensionContainer { { HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDPA-Associated-PICH-Information ::= CHOICE {
   hsdpa-PICH-Shared-with-PCH
                                                  HSDPA-PICH-Shared-with-PCH,
   hsdpa-PICH-notShared-with-PCH
                                                  HSDPA-PICH-notShared-with-PCH,
HSDPA-PICH-Shared-with-PCH ::= SEQUENCE {
   hsdpa-PICH-SharedPCH-ID
                                                  CommonPhysicalChannelID,
    . . .
HSDPA-PICH-notShared-with-PCH ::= SEQUENCE {
   hSDPA-PICH-notShared-ID
                                                  CommonPhysicalChannelID,
    fdd-DL-Channelisation-CodeNumber
                                                  FDD-DL-ChannelisationCodeNumber,
   pich-Power
                                                  PICH-Power,
   pich-Mode
                                                  PICH-Mode,
   sttd-Indicator
                                                  STTD-Indicator,
HSDSCH-Common-System-InformationFDD ::= SEQUENCE {
   hsdsch-Common-Information
                                                  HSDSCH-Common-Information
                                                                                                                          OPTIONAL,
    commonMACFlow-Specific-Information
                                                  CommonMACFlow-Specific-InfoList
                                                                                                                          OPTIONAL,
                                                  ProtocolExtensionContainer { { HSDSCH-Common-System-InformationFDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
```

```
HSDSCH-Common-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Common-System-Information-ResponseFDD ::= SEQUENCE
    hsSCCH-Specific-Information-ResponseFDD
                                                     HSSCCH-Specific-InformationRespListFDD
                                                                                                                          OPTIONAL,
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                                          OPTIONAL,
    commonMACFlow-Specific-Info-Response
                                                     CommonMACFlow-Specific-InfoList-Response
                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-Common-System-Information-ResponseFDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSDSCH-Common-System-Information-ResponseFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Common-Information ::= SEQUENCE {
                                                                     PriorityOueue-Id,
    cCCH-PriorityOueue-Id
    sRB1-PriorityQueue-Id
                                                                     PriorityOueue-Id,
    associatedCommon-MACFlow
                                                                     Common-MACFlow-ID,
    fACH-Measurement-Occasion-Cycle-Length-Coefficient
                                                                     FACH-Measurement-Occasion-Cycle-Length-Coefficient
    OPTIONAL,
    rACH-Measurement-Result
                                                                     RACH-Measurement-Result,
    bCCH-Specific-HSDSCH-RNTI-Information
                                                                     BCCH-Specific-HSDSCH-RNTI-Information,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-Common-Information-ExtIEs} }
                                                                                                                          OPTIONAL,
    . . .
HSDSCH-Common-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-FDD-Information ::= SEQUENCE {
                                                 HSDSCH-MACdFlows-Information,
   hSDSCH-MACdFlows-Information
    ueCapability-Info
                                                UE-Capability-Information,
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                MAChsReorderingBufferSize-for-RLC-UM,
    cgiFeedback-CycleK
                                                 COI-Feedback-Cycle,
    cgiRepetitionFactor
                                                 COI-RepetitionFactor
                                                                                             OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k is greater than 0
                                                 AckNack-RepetitionFactor,
    ackNackRepetitionFactor
    cqiPowerOffset
                                                 COI-Power-Offset,
    ackPowerOffset
                                                Ack-Power-Offset,
    nackPowerOffset
                                                Nack-Power-Offset,
    hsscch-PowerOffset
                                                HSSCCH-PowerOffset
                                                                                             OPTIONAL.
    measurement-Power-Offset
                                                Measurement-Power-Offset
                                                                                             OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs} } 
                                                                                                                          OPTIONAL,
HSDSCH-FDD-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HARO-Preamble-Mode
                                                     CRITICALITY ignore
                                                                             EXTENSION HARO-Preamble-Mode
                                                                                                                                          PRESENCE
optional}|
```

```
{ ID id-MIMO-ActivationIndicator
                                                     CRITICALITY reject
                                                                             EXTENSION
                                                                                         MIMO-ActivationIndicator
                                                                                                                                          PRESENCE
optional}|
    { ID id-HSDSCH-MACdPDUSizeFormat
                                                     CRITICALITY reject
                                                                             EXTENSION
                                                                                          HSDSCH-MACdPDUSizeFormat
                                                                                                                                          PRESENCE
optional}|
      ID id-SixtyfourOAM-UsageAllowedIndicator
                                                     CRITICALITY ignore
                                                                                          SixtyfourOAM-UsageAllowedIndicator
                                                                                                                                  PRESENCE optional } |
                                                                             EXTENSION
      ID id-UE-with-enhanced-HS-SCCH-support-indicator CRITICALITY ignore
                                                                                  EXTENSION NULL
    PRESENCE optional } |
    { ID id-EnhancedHSServingCC-Abort
                                                     CRITICALITY reject
                                                                             EXTENSION
                                                                                          EnhancedHSServingCC-Abort
                                                                                                                                          PRESENCE
optional}
    { ID id-UE-SupportIndicatorExtension
                                                     CRITICALITY ignore
                                                                             EXTENSION
                                                                                          UE-SupportIndicatorExtension
                                                                                                                                          PRESENCE
optional}|
    { ID id-Single-Stream-MIMO-ActivationIndicator CRITICALITY reject
                                                                             EXTENSION
                                                                                          Single-Stream-MIMO-ActivationIndicator
                                                                                                                                          PRESENCE
optional},
HSDSCH-TDD-Information ::= SEQUENCE {
    hSDSCH-MACdFlows-Information
                                                 HSDSCH-MACdFlows-Information,
    ueCapability-Info
                                                 UE-Capability-Information,
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                 MAChsReorderingBufferSize-for-RLC-UM,
    tDD-AckNack-Power-Offset
                                                 TDD-AckNack-Power-Offset,
                                                 ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
HSDSCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-HSSICH-SIRTarget
                                                                                                                                  optional}|
                                     CRITICALITY ignore
                                                                 EXTENSION
                                                                                                                      PRESENCE
                                                                             UL-SIR
 -- Applicable to 1.28Mcps TDD only
    { ID id-HSSICH-TPC-StepSize
                                    CRITICALITY ignore
                                                                                                                                  optional}|
                                                                 EXTENSION
                                                                             TDD-TPC-UplinkStepSize-LCR
                                                                                                                      PRESENCE
     -- Applicable to 1.28Mcps TDD only
     ID id-HSDSCH-MACdPDUSizeFormat
                                        CRITICALITY reject
                                                                 EXTENSION
                                                                             HSDSCH-MACdPDUSizeFormat
                                                                                                                      PRESENCE optional | |
    { ID id-tSN-Length
                                     CRITICALITY reject
                                                                 EXTENSION TSN-Length
                                                                                                                      PRESENCE optional }
    -- Applicable for 1.28Mcps TDD when using multiple frequencies
         ID id-MIMO-ActivationIndicator
                                                         CRITICALITY reject
                                                                                             MIMO-ActivationIndicator
                                                                                  EXTENSION
    PRESENCE optional }.
HSDSCH-Information-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    priorityQueueInfotoModify
                                                     PriorityQueue-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                     MAChsReorderingBufferSize-for-RLC-UM
                                                                                                                      OPTIONAL,
    cgiFeedback-CycleK
                                                     CQI-Feedback-Cycle
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    cgiRepetitionFactor
                                                     COI-RepetitionFactor
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    ackNackRepetitionFactor
                                                     AckNack-RepetitionFactor
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    caiPowerOffset
                                                     COI-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    ackPowerOffset
                                                     Ack-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    hsscch-PowerOffset
                                                     HSSCCH-PowerOffset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    measurement-Power-Offset
                                                     Measurement-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    hSSCCHCodeChangeGrant
                                                     HSSCCH-Code-Change-Grant
                                                                                                                      OPTIONAL,
    tDDAckNackPowerOffset
                                                     TDD-AckNack-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For TDD only
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs} } 
                                                                                                                                          OPTIONAL,
```

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HSDSCH-Information-to-Modify-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-HARO-Preamble-Mode
                                                 CRITICALITY ignore
                                                                                     HARO-Preamble-Mode
                                                                                                                      PRESENCE optional }
                                                                         EXTENSION
     ID id-HSSICH-SIRTarget
                                                 CRITICALITY ignore
                                                                                                                      PRESENCE optional)
                                                                         EXTENSION
                                                                                     UL-SIR
     -- Applicable to 1.28Mcps TDD only
     ID id-ueCapability-Info
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     UE-Capability-Information
                                                                                                                      PRESENCE optional }
     ID id-HSSICH-TPC-StepSize
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     TDD-TPC-UplinkStepSize-LCR
                                                                                                                      PRESENCE optional } |
     -- Applicable to 1.28Mcps TDD only
    { ID id-HS-PDSCH-Code-Change-Grant
                                                                                                                      PRESENCE optional } |
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     HS-PDSCH-Code-Change-Grant
     -- Applicable to FDD only
     ID id-MIMO-Mode-Indicator
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                     MIMO-Mode-Indicator
                                                                                                                      PRESENCE optional } |
      ID id-HSDSCH-MACdPDUSizeFormat
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                     HSDSCH-MACdPDUSizeFormat
                                                                                                                      PRESENCE optional } |
      ID id-SixtyfourOAM-UsageAllowedIndicator CRITICALITY ignore
                                                                                     SixtyfourOAM-UsageAllowedIndicator
                                                                                                                                  PRESENCE optional }
                                                                         EXTENSION
      ID id-EnhancedHSServingCC-Abort
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                     EnhancedHSServingCC-Abort
                                                                                                                                  PRESENCE optional }
      ID id-UE-SupportIndicatorExtension
                                                 CRITICALITY ignore
                                                                                     UE-SupportIndicatorExtension
                                                                                                                          PRESENCE optional } |
                                                                         EXTENSION
     ID id-Single-Stream-MIMO-Mode-Indicator
                                               CRITICALITY reject
                                                                         EXTENSION
                                                                                     Single-Stream-MIMO-Mode-Indicator
                                                                                                                          PRESENCE optional },
     -- Applicable to FDD only
HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                                      OPTIONAL,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
                                        BindingID
    bindingID
                                                                                      OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                                      OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs} }
    iE-Extensions
                                                                                                                                          OPTIONAL,
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                            CRITICALITY ignore
    {ID id-TnlOos
                                                     EXTENSION TnlQos
                                                                         PRESENCE optional }.
    . . .
HSDSCH-MACdPDUSizeFormat ::= ENUMERATED {
    indexedMACdPDU-Size,
    flexibleMACdPDU-Size
HSDSCH-MACdPDU-SizeCapability ::= ENUMERATED
    indexedSizeCapable,
    flexibleSizeCapable
HSDSCH-Information-to-Modify-Unsynchronised ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    priorityQueueInfotoModifyUnsynchronised
                                                     PriorityQueue-InfoList-to-Modify-Unsynchronised
                                                                                                                      OPTIONAL,
    cqiPowerOffset
                                                     COI-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    ackPowerOffset
                                                     Ack-Power-Offset
                                                                                                                                  -- For FDD only
                                                                                                                      OPTIONAL,
```

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nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                                                  -- For FDD only
                                                                                                                      OPTIONAL,
    hsscch-PowerOffset
                                                     HSSCCH-PowerOffset
                                                                                                                      OPTIONAL.
                                                                                                                                  -- For FDD only
    tDDAckNackPowerOffset
                                                     TDD-AckNack-Power-Offset
                                                                                                                      OPTIONAL.
                                                                                                                                  -- For TDD only
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs} }
    OPTIONAL,
    . . .
HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-HARO-Preamble-Mode
                                                                                                                      PRESENCE optional }
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     HARO-Preamble-Mode
     ID id-HSSICH-SIRTarget
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     III.-STR
                                                                                                                      PRESENCE optional }
     -- Applicable to 1.28Mcps TDD only
     ID id-ueCapability-Info
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     UE-Capability-Information
                                                                                                                      PRESENCE optional }
     ID id-HSSICH-TPC-StepSize
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                     TDD-TPC-UplinkStepSize-LCR
                                                                                                                      PRESENCE optional }
     -- Applicable to 1.28Mcps TDD only
     ID id-MIMO-Mode-Indicator
                                                 CRITICALITY reject
                                                                         EXTENSION MIMO-Mode-Indicator
                                                                                                                      PRESENCE
                                                                                                                                  optional }|
      ID id-SixtyfourOAM-UsageAllowedIndicator CRITICALITY ignore
                                                                                     SixtyfourOAM-UsageAllowedIndicator
                                                                                                                                  PRESENCE optional }
                                                                         EXTENSION
      ID id-EnhancedHSServingCC-Abort
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                     EnhancedHSServingCC-Abort
                                                                                                                                  PRESENCE optional }
      ID id-UE-SupportIndicatorExtension
                                                                                     UE-SupportIndicatorExtension
                                                                                                                           PRESENCE optional } |
                                                 CRITICALITY ignore
                                                                         EXTENSION
     ID id-Single-Stream-MIMO-Mode-Indicator
                                                                         EXTENSION
                                                                                     Single-Stream-MIMO-Mode-Indicator
                                                                                                                          PRESENCE optional },
                                                CRITICALITY reject
     -- Applicable to FDD only
    . . .
HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp
                                                     HSDSCH-MACdFlow-Specific-InformationResp
    OPTIONAL,
    hsSCCH-Specific-Information-ResponseFDD
                                                     HSSCCH-Specific-InformationRespListFDD
    OPTIONAL,
    hARO-MemoryPartitioning
                                                     HARO-MemoryPartitioning
    OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
HSDSCH-FDD-Information-Response-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
   ID id-HARQ-Preamble-Mode-Activation-Indicator
                                                         CRITICALITY ignore EXTENSION HARQ-Preamble-Mode-Activation-Indicator PRESENCE optional
      ID id-MIMO-N-M-Ratio
                                                         CRITICALITY ignore EXTENSION MIMO-N-M-Ratio
                                                                                                                                  PRESENCE optional }
      ID id-SixtyfourQAM-DL-UsageIndicator
                                                         CRITICALITY ignore EXTENSION SixtyfourOAM-DL-UsageIndicator
                                                                                                                                  PRESENCE optional }
      ID id-HSDSCH-TBSizeTableIndicator
                                                         CRITICALITY ignore EXTENSION HSDSCH-TBSizeTableIndicator
                                                                                                                                  PRESENCE optional }
      ID id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order
                                                                 CRITICALITY ignore EXTENSION Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order
    PRESENCE optional },
    . . .
HS-DSCH-FDD-Secondary-Serving-Information ::= SEQUENCE {
    hsscch-PowerOffset
                                            HSSCCH-PowerOffset
                                                                                          OPTIONAL,
    measurement-Power-Offset
                                            Measurement-Power-Offset,
    sixtyfourQAM-UsageAllowedIndicator
                                            SixtyfourQAM-UsageAllowedIndicator
                                                                                          OPTIONAL,
    hSDSCH-RNTI
                                            HSDSCH-RNTI,
                                             ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
```

```
HS-DSCH-FDD-Secondary-Serving-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-MIMO-ActivationIndicator
                                            CRITICALITY reject
                                                                     EXTENSION MIMO-ActivationIndicator
                                                                                                                     PRESENCE optional } |
    {ID id-Single-Stream-MIMO-ActivationIndicator CRITICALITY reject
                                                                             EXTENSION Single-Stream-MIMO-ActivationIndicator
                                                                                                                                         PRESENCE
optional } |
    {ID id-DiversityMode
                                    CRITICALITY reject
                                                             EXTENSION DiversityMode PRESENCE optional } |
    ID id-TransmitDiversityIndicator
                                                                         EXTENSION TransmitDiversityIndicator
                                                                                                                  PRESENCE optional },
                                                CRITICALITY reject
HS-DSCH-FDD-Secondary-Serving-Information-Response ::= SEQUENCE
    hsSCCH-Specific-Information-ResponseFDD
                                                HSSCCH-Specific-InformationRespListFDD
                                                                                                          OPTIONAL,
                                                SixtyfourQAM-DL-UsageIndicator
    sixtyfourQAM-DL-UsageIndicator
                                                                                                          OPTIONAL,
    hSDSCH-TBSizeTableIndicator
                                                HSDSCH-TBSizeTableIndicator
                                                                                                          OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Information-Respons-ExtIEs } }
    OPTIONAL,
HS-DSCH-FDD-Secondary-Serving-Information-Respons-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-MIMO-N-M-Ratio
                                    CRITICALITY ignore
                                                                                                 PRESENCE optional },
                                                            EXTENSION MIMO-N-M-Ratio
    . . .
HS-DSCH-Secondary-Serving-Information-To-Modify ::= SEOUENCE {
    hsscch-PowerOffset
                                                HSSCCH-PowerOffset
                                                                                                   OPTIONAL,
    measurement-Power-Offset
                                                Measurement-Power-Offset
                                                                                                   OPTIONAL.
    hSSCCH-CodeChangeGrant
                                                HSSCCH-Code-Change-Grant
                                                                                                   OPTIONAL,
    sixtyfourOAM-UsageAllowedIndicator
                                                SixtyfourOAM-UsageAllowedIndicator
                                                                                                   OPTIONAL,
                                                ProtocolExtensionContainer { { HS-DSCH-Secondary-Serving-Information-To-Modify-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HS-DSCH-Secondary-Serving-Information-To-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-MIMO-Mode-Indicator
                                        CRITICALITY reject
                                                                EXTENSION MIMO-Mode-Indicator
                                                                                                   PRESENCE optional } |
    ID id-Single-Stream-MIMO-Mode-Indicator
                                                                         EXTENSION Single-Stream-MIMO-Mode-Indicator PRESENCE optional }
                                                CRITICALITY reject
    {ID id-DiversityMode
                                CRITICALITY reject
                                                        EXTENSION DiversityMode PRESENCE optional }
    {ID id-TransmitDiversityIndicator
                                                CRITICALITY reject
                                                                         EXTENSION TransmitDiversityIndicator
                                                                                                                  PRESENCE optional } |
-- This IE shall be present if Diversity Mode IE is present and is not set to 'none'
    {ID id-NonCellSpecificTxDiversity
                                                CRITICALITY reject
                                                                         EXTENSION NonCellSpecificTxDiversity
                                                                                                                  PRESENCE optional },
    . . .
HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised ::= SEQUENCE {
    hsscch-PowerOffset
                                                HSSCCH-PowerOffset
                                                                                                   OPTIONAL,
                                                SixtyfourQAM-UsageAllowedIndicator
    sixtvfourOAM-UsageAllowedIndicator
                                                                                                   OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised-ExtIEs } }
        OPTIONAL,
    . . .
HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-MIMO-Mode-Indicator
                                                CRITICALITY reject
                                                                         EXTENSION MIMO-Mode-Indicator
    PRESENCE optional }
```

```
{ID id-Single-Stream-MIMO-Mode-Indicator
                                             CRITICALITY reject
                                                                     EXTENSION Single-Stream-MIMO-Mode-Indicator
                                                                                                                          PRESENCE optional },
HS-DSCH-FDD-Secondary-Serving-Update-Information ::= SEQUENCE {
   hsSCCHCodeChangeIndicator
                                             HSSCCH-CodeChangeIndicator
                                                                                        OPTIONAL,
   hS-PDSCH-Code-Change-Indicator
                                             HS-PDSCH-Code-Change-Indicator
                                                                                        OPTIONAL.
    -- This IE shall never be included. If received it shall be ignored.
                                             ProtocolExtensionContainer { { HS-DSCH-FDD-Secondary-Serving-Update-Information-ExtIEs } }
   OPTIONAL,
    . . .
HS-DSCH-FDD-Secondary-Serving-Update-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCH-Secondary-Serving-Cell-Change-Information-Response ::= SEQUENCE
   hS-DSCH-Secondary-Serving-cell-choice
                                             HS-DSCH-Secondary-Serving-cell-change-choice,
                                             iE-Extensions
       OPTIONAL,
    . . .
HS-DSCH-Secondary-Serving-Cell-Change-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCH-Secondary-Serving-cell-change-choice ::= CHOICE
    hS-Secondary-Serving-cell-change-successful
                                                     HS-Secondary-Serving-cell-change-successful,
   hS-Secondary-Serving-cell-change-unsuccessful
                                                     HS-Secondary-Serving-cell-change-unsuccessful,
HS-Secondary-Serving-cell-change-successful ::= SEQUENCE {
   hS-DSCH-FDD-Secondary-Serving-Information-Response
                                                         HS-DSCH-FDD-Secondary-Serving-Information-Response,
   iE-Extensions
                                      ProtocolExtensionContainer { { HS-Secondary-Serving-cell-change-successful-ExtIEs} } OPTIONAL,
HS-Secondary-Serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-Secondary-Serving-cell-change-unsuccessful ::= SEOUENCE {
   cause
   iE-Extensions
                                  ProtocolExtensionContainer { { HS-Secondary-Serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
HS-Secondary-Serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCH-Secondary-Serving-Remove ::= NULL
```

```
HSDSCH-Paging-System-InformationFDD ::= SEQUENCE
    paging-MACFlow-Specific-Information
                                                     Paging-MACFlow-Specific-Information,
    hSSCCH-Power
                                                     DL-Power.
    hSPDSCH-Power
                                                    DL-Power,
    number-of-PCCH-transmission
                                                    Number-of-PCCH-transmission,
    transport-Block-Size-List
                                                    Transport-Block-Size-List,
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSDSCH-Paging-System-InformationFDD-ExtIEs } }
    OPTIONAL,
HSDSCH-Paging-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Paging-System-Information-ResponseFDD ::= SEOUENCE (SIZE (1..maxNrOfPagingMACFlow)) OF HSDSCH-Paging-System-Information-ResponseList
HSDSCH-Paging-System-Information-ResponseList ::= SEQUENCE {
    pagingMACFlow-ID
                                                     Paging-MACFlow-ID,
    bindingID
                                                     BindingID
                                                                                                 OPTIONAL
                                                    TransportLayerAddress
    transportLayerAddress
                                                                                                 OPTIONAL,
    hSPDSCH-Code-Index
                                                     HSPDSCH-Code-Index.
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSDSCH-Paging-System-Information-ResponseList-ExtIEs } }
    OPTIONAL,
    . . .
HSDSCH-Paging-System-Information-ResponseList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-TDD-Information-Response ::= SEQUENCE {
   hsDSCH-MACdFlow-Specific-InformationResp
                                                     HSDSCH-MACdFlow-Specific-InformationResp
                                                                                                 OPTIONAL,
                                                                                                 OPTIONAL, -- Not Applicable to 1.28Mcps TDD or
    hsSCCH-Specific-Information-ResponseTDD
                                                    HSSCCH-Specific-InformationRespListTDD
7.68Mcps TDD
                                                     HSSCCH-Specific-InformationRespListTDDLCR
    hsSCCH-Specific-Information-ResponseTDDLCR
                                                                                                 OPTIONAL, -- Not Applicable to 3.84Mcps TDD or
7.68Mcps TDD, This HSSCCH Specific Information is for the first Frequency repetition, HSSCCH Specific Information for Frequency repetitions 2 and
on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                 OPTIONAL, -- This HARQ Memory Partitioning
Information is for the first Frequency repetition, HARQ Memory Partitioning Information for Frequency repetitions 2 and on, should be defined in
MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR
                                                     ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
HSDSCH-TDD-Information-Response-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-hsSCCH-Specific-Information-ResponseTDD768
                                                                         CRITICALITY ignore EXTENSION HSSCCH-Specific-InformationRespListTDD768
    PRESENCE optional } |
{ ID id-UARFCNforNt
                                                                         CRITICALITY ignore EXTENSION UARFON
                                            PRESENCE optional |
    -- Applicable to 1.28Mcps TDD when using multiple frequencies , This is the UARFCN for the first Frequency repetition
```

```
{ ID id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR
                                                                         CRITICALITY ignore EXTENSION MultipleFreq-HSPDSCH-InformationList-
ResponseTDDLCR PRESENCE optional }
    -- Applicable to 1.28Mcps TDD when using multiple frequencies , This MultipleFreg-HSPDSCH-InformationList-ResponseTDDLCR is the HS-SCCH and HARO
Memory Partitioning information for the 2nd and beyond HS-PDSCH frequencies.
{ ID id-multicarrier-number
                                                                         CRITICALITY ignore EXTENSION Multicarrier-Number
                                        PRESENCE optional }
    -- Applicable for 1.28Mcps TDD when using multiple frequencies
    {ID id-MIMO-SFMode-For-HSPDSCHDualStream
                                                        CRITICALITY reject
                                                                                 EXTENSION MIMO-SFMode-For-HSPDSCHDualStream
                PRESENCE optional |
    {ID id-MIMO-ReferenceSignal-InformationListLCR
                                                        CRITICALITY reject EXTENSION MIMO-ReferenceSignal-InformationListLCR
                                                                                                                                         PRESENCE
optional},
    . . .
HSDSCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InformationResp-Item
HSDSCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    hsDSCHMacdFlow-Id
                                                    HSDSCH-MACdFlow-ID,
    bindingID
                                                    BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                 OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                    HSDSCH-Initial-Capacity-Allocation OPTIONAL,
                                                    ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-MACdFlows-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info
                                                    HSDSCH-MACdFlow-Specific-InfoList,
    priorityQueue-Info
                                                    PriorityQueue-InfoList,
                                                    ProtocolExtensionContainer { { HSDSCH-MACdFlows-Information-ExtIEs } }
   iE-Extensions
    OPTIONAL,
    . . .
HSDSCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem
HSDSCH-MACdFlow-Specific-InfoItem ::= SEOUENCE {
    hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    bindingID
                                        BindingID
                                                                    OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                    OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
PRESENCE optional },
    {ID id-TnlQos
                            CRITICALITY ignore
                                                    EXTENSION TnlQos
HSDSCH-MACdFlows-to-Delete ::= SEOUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlows-to-Delete-Item
HSDSCH-MACdFlows-to-Delete-Item ::= SEQUENCE {
   hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
   iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlows-to-Delete-Item-ExtIEs} }
                                                                                                                        OPTIONAL,
HSDSCH-MACdFlows-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-TBSizeTableIndicator ::= ENUMERATED {
    octet-aligned
HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
HSDSCH-Initial-Capacity-Allocation: = SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF HSDSCH-Initial-Capacity-AllocationItem
HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    maximum-MACdPDU-Size
                                    MACdPDU-Size,
    hSDSCH-InitialWindowSize
                                    HSDSCH-InitialWindowSize,
                                    ProtocolExtensionContainer { { HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
HSDSCH-Initial-Capacity-AllocationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MaximumMACdPDU-SizeExtended
                                           CRITICALITY ignore
                                                                    EXTENSION MAC-PDU-SizeExtended
                                                                                                         PRESENCE optional },
HSDSCH-InitialWindowSize
                                    ::= INTEGER (1..255)
-- Number of MAC-d PDUs.
HSDSCH-PreconfigurationInfo ::= SEQUENCE {
    setsOfHS-SCCH-Codes
                         SetsOfHS-SCCH-Codes,
   hARQ-MemoryPartitioning
                                HARQ-MemoryPartitioning,
    e-DCH-FDD-DL-Control-Channel-Information
                                                    E-DCH-FDD-DL-Control-Channel-Information
                                                                                                  OPTIONAL,
    hARQ-Preamble-Mode-Activation-Indicator
                                                HARQ-Preamble-Mode-Activation-Indicator
                                                                                            OPTIONAL,
    mIMO-N-M-Ratio
                           MIMO-N-M-Ratio
                                                OPTIONAL,
    continuousPacketConnectivityHS-SCCH-less-Information-Response ContinuousPacketConnectivityHS-SCCH-less-Information-Response
    OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-PreconfigurationInfo-ExtIEs} }
                                                                                                                        OPTIONAL,
```

```
HSDSCH-PreconfigurationInfo-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-EDCH-Preconfiguration-Information CRITICALITY ignore EXTENSION Additional-EDCH-Preconfiguration-Information
    PRESENCE optional }
    { ID id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order CRITICALITY ignore EXTENSION Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order
    PRESENCE optional },
Additional-EDCH-Preconfiguration-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Preconfiguration-Information-ItemIEs
Additional-EDCH-Preconfiguration-Information-ItemIEs
                                                    ::= SEQUENCE {
    e-DCH-FDD-DL-Control-Channel-Information
                                                  E-DCH-FDD-DL-Control-Channel-Information,
   iE-Extensions
                                   ProtocolExtensionContainer { { Additional-EDCH-Preconfiguration-Information-ItemIEs-ExtIEs} } OPTIONAL,
Additional-EDCH-Preconfiguration-Information-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-PreconfigurationSetup ::= SEQUENCE {
   mAChsResetScheme
                          MAChsResetScheme,
   hSDSCH-Physical-Layer-Category
                                      INTEGER (1..64,...),
   mAChs-Reordering-Buffer-Size-for-RLC-UM
                                              MAChsReorderingBufferSize-for-RLC-UM,
    secondaryServingCells
                               SecondaryServingCells
                                                              OPTIONAL,
    numPrimaryHS-SCCH-Codes
                               NumHS-SCCH-Codes
                                                          OPTIONAL,
    hARO-Preamble-Mode
                           HARO-Preamble-Mode
                                                                  OPTIONAL,
   mIMO-ActivationIndicator
                                  MIMO-ActivationIndicator
                                                                      OPTIONAL,
                                   HSDSCH-MACdPDUSizeFormat
    hSDSCH-MACdPDUSizeFormat
                                                                      OPTIONAL,
    sixtyfourQAM-UsageAllowedIndicator
                                          SixtyfourOAM-UsageAllowedIndicator
                                                                                     OPTIONAL,
                                                              OPTIONAL,
    uE-with-enhanced-HS-SCCH-support-indicator
                                                  NULL
    continuousPacketConnectivityHS-SCCH-less-Information
                                                                  ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                                                                                   OPTIONAL,
                                       iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
HSDSCHPreconfigurationSetup-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-UE-SupportIndicatorExtension
                                                                                                             PRESENCE optional },
                                          CRITICALITY ignore
                                                                  EXTENSION
                                                                            UE-SupportIndicatorExtension
    . . .
HS-SCCH-PreconfiguredCodes
                                       ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HS-SCCH-PreconfiguredCodesItem
HS-SCCH-PreconfiguredCodesItem ::= SEQUENCE {
   hS-SCCH-CodeNumber
                               HS-SCCH-CodeNumber,
                           ProtocolExtensionContainer { { HS-SCCH-PreconfiguredCodesItem-ExtIEs} } OPTIONAL,
   iE-Extensions
HS-SCCH-PreconfiguredCodesItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
HS-SCCH-CodeNumber ::= INTEGER (0..127)
HSSCCH-Specific-InformationRespListFDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Codes
HSSCCH-Codes ::= SEQUENCE {
        codeNumber
                                                                                                              INTEGER (0..127),
        iE-Extensions
                                                                                                             ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemFDD-ExtIEs } }
        OPTIONAL,
HSSCCH-Specific-InformationRespItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSCCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD
HSSCCH-Specific-InformationRespItemTDD ::= SEQUENCE {
        timeslot
                                                                                                             TimeSlot,
        midambleShiftAndBurstType
                                                                                                             MidambleShiftAndBurstType,
        tDD-ChannelisationCode
                                                                                                             TDD-ChannelisationCode,
        hSSICH-Info
                                                                                                             HSSICH-Info,
                                                                                                             ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD-ExtIEs } }
        iE-Extensions
        OPTIONAL,
 \mbox{HSSCCH-Specific-InformationRespItemTDD-ExtIES NBAP-PROTOCOL-EXTENSION } ::= \{ \mbox{NBAP-PROTOCOL-EXTENSION } ::= \{ \mbox{NBAP-PROTOCOL-E
        . . .
HSSCCH-Specific-InformationRespListTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDDLCR
HSSCCH-Specific-InformationRespItemTDDLCR ::= SEQUENCE {
        timeslotLCR
                                                                                                    TimeSlotLCR,
        midambleShiftLCR
                                                                                                    MidambleShiftLCR,
        first-TDD-ChannelisationCode
                                                                                                             TDD-ChannelisationCode,
        second-TDD-ChannelisationCode
                                                                                           TDD-ChannelisationCode,
        hSSICH-InfoLCR
                                                                                                    HSSICH-InfoLCR,
        iE-Extensions
                                                                                                     ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs } }
        OPTIONAL,
HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
        {ID id-UARFCNforNt
                                                         CRITICALITY reject
                                                                                                       EXTENSION UARFCN
                                                                                                                                                               PRESENCE optional },
        -- Applicable for 1.28Mcps TDD when using multiple frequencies. this IE indicates the frequency which is actually used by the HS-SCCH
HSSCCH-Specific-InformationRespListTDD768 ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD768
HSSCCH-Specific-InformationRespItemTDD768 ::= SEQUENCE {
```

```
timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
    hSSICH-Info768
                                                     HSSICH-Info768,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD768-ExtIEs } }
        OPTIONAL,
HSSCCH-Specific-InformationRespItemTDD768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-Info ::= SEQUENCE {
   hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID
                                                     HS-SICH-ID,
    timeslotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                 TDD-ChannelisationCode,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }
                                                                                                                                  OPTIONAL,
HSSICH-Info-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                         CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
                                                                                                                   PRESENCE optional },
    -- used if the HS-SICH identity has a value larger than 31
HSSICH-Info768 ::= SEQUENCE {
   hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768.
                                                     ProtocolExtensionContainer { { HSSICH-Info-768-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
HSSICH-Info-768-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
```

. . .

```
HS-SICH-Reception-Quality-Value ::= SEQUENCE
    failed-HS-SICH
                                HS-SICH-failed.
    missed-HS-SICH
                                HS-SICH-missed.
    total-HS-SICH
                                HS-SICH-total,
                                ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs} } OPTIONAL,
    iE-Extensions
HS-SICH-Reception-Quality-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-failed-HS-SICH
                                            CRITICALITY reject
                                                                    EXTENSION
                                                                                HS-SICH-failed
                                                                                                          PRESENCE
                                                                                                                        optional
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 failed HS-SICH
    {ID id-Additional-missed-HS-SICH
                                            CRITICALITY reject
                                                                    EXTENSION HS-SICH-missed
                                                                                                          PRESENCE
                                                                                                                        optional}
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 missed HS-SICH
    {ID id-Additional-total-HS-SICH
                                            CRITICALITY reject
                                                                    EXTENSION HS-SICH-total
                                                                                                         PRESENCE
                                                                                                                        optional },
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 total HS-SICH
HS-SICH-failed ::= INTEGER (0..20)
HS-SICH-missed ::= INTEGER (0..20)
HS-SICH-total ::= INTEGER (0..20)
HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in TS 25.123 [23]
HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)
HSDSCH-RNTI ::= INTEGER (0..65535)
HS-PDSCH-FDD-Code-Information ::= SEQUENCE {
    number-of-HS-PDSCH-codes
                                                    INTEGER (0..maxHS-PDSCHCodeNrComp-1),
                                                HS-PDSCH-Start-code-number
    hS-PDSCH-Start-code-number
                                                                                OPTIONAL,
-- Only included when number of HS-DSCH codes > 0
                                ProtocolExtensionContainer { { HS-PDSCH-FDD-Code-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
HS-PDSCH-FDD-Code-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::=
HS-PDSCH-Start-code-number ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
HS-SCCH-ID ::= INTEGER (0..31)
HS-SICH-ID ::= INTEGER (0..31)
HS-SCCH-FDD-Code-Information::= CHOICE {
    replace
                            HS-SCCH-FDD-Code-List,
    remove
                            NULL,
```

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```
HS-SCCH-FDD-Code-List ::= SEOUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-FDD-Code-Information-Item
HS-SCCH-FDD-Code-Information-Item ::= INTEGER (0..maxHS-SCCHCodeNrComp-1)
HSSCCH-CodeChangeIndicator ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
HSSCCH-Code-Change-Grant
                           ::= ENUMERATED {
    changeGranted
HS-PDSCH-Code-Change-Indicator ::= ENUMERATED {
    hsPDSCHCodeChangeNeeded
HS-PDSCH-Code-Change-Grant ::= ENUMERATED {
    changeGranted
HSDSCH-Configured-Indicator::= ENUMERATED {
    configured-HS-DSCH,
    no-configured-HS-DSCH
HS-DSCH-Serving-Cell-Change-Info ::= SEQUENCE {
    hspdsch-RL-ID
    hSDSCH-FDD-Information
                                    HSDSCH-FDD-Information OPTIONAL,
    hsdsch-RNTI
                                    HSDSCH-RNTI,
                                    ProtocolExtensionContainer { { HS-DSCH-Serving-Cell-Change-Info-ExtIEs} }
    iE-Extensions
                                                                                                                    OPTIONAL,
    . . .
HS-DSCH-Serving-Cell-Change-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                    CRITICALITY reject EXTENSION ContinuousPacketConnectivityHS-SCCH-less-
Information
                PRESENCE optional } |
    { ID id-ContinuousPacketConnectivityDTX-DRX-Information
                                                                CRITICALITY reject EXTENSION ContinuousPacketConnectivityDTX-DRX-Information
    PRESENCE optional },
HS-DSCH-Serving-Cell-Change-Info-Response::= SEQUENCE
    hS-DSCH-serving-cell-choice
                                    HS-DSCH-serving-cell-choice,
                                    ProtocolExtensionContainer { { HS-DSCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
    iE-Extensions
HS-DSCH-serving-cell-informationResponse-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
HS-DSCH-serving-cell-choice ::= CHOICE {
   hS-serving-cell-change-successful
                                          HS-serving-cell-change-successful,
   hS-serving-cell-change-unsuccessful
                                          HS-serving-cell-change-unsuccessful,
HS-serving-cell-change-successful ::= SEQUENCE
   hSDSCH-FDD-Information-Response
                                      HSDSCH-FDD-Information-Response,
                                      ProtocolExtensionContainer { { HS-serving-cell-change-successful-ExtIEs} } OPTIONAL,
   iE-Extensions
HS-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    EXTENSION ContinuousPacketConnectivityHS-SCCH-
less-Information-Response
                                  PRESENCE optional },
    . . .
HS-serving-cell-change-unsuccessful ::= SEQUENCE {
   cause
                                   Cause,
                                   ProtocolExtensionContainer { { HS-serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
   iE-Extensions
HS-serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCH-DRX-Cycle-FACH ::= ENUMERATED {v4, v8, v16, v32, ...}
HS-DSCH-RX-Burst-FACH: = ENUMERATED {v1,v2,v4,v8,v16,...}
HSDSCH-FDD-Update-Information ::= SEQUENCE {
   hsSCCHCodeChangeIndicator
                                                  HSSCCH-CodeChangeIndicator
                                                                                             OPTIONAL,
    cgiFeedback-CycleK
                                                  COI-Feedback-Cycle
                                                                                             OPTIONAL,
    cqiRepetitionFactor
                                                  CQI-RepetitionFactor
                                                                                             OPTIONAL,
    ackNackRepetitionFactor
                                                  AckNack-RepetitionFactor
                                                                                             OPTIONAL,
                                                  COI-Power-Offset
    cqiPowerOffset
                                                                                             OPTIONAL,
    ackPowerOffset
                                                  Ack-Power-Offset
                                                                                             OPTIONAL,
   nackPowerOffset
                                                  Nack-Power-Offset
                                                                                             OPTIONAL,
                                                  ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }
   iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
HSDSCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-HS-PDSCH-Code-Change-Indicator
                                              CRITICALITY ignore
                                                                     EXTENSION HS-PDSCH-Code-Change-Indicator PRESENCE optional },
    . . .
HSDSCH-TDD-Update-Information ::= SEQUENCE {
   hsSCCHCodeChangeIndicator
                                                  HSSCCH-CodeChangeIndicator
                                                                                             OPTIONAL,
```

```
tDDAckNackPowerOffset
                                                  TDD-AckNack-Power-Offset
                                                                                              OPTIONAL,
   iE-Extensions
                                                   ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } }
                                                                                                                                    OPTIONAL,
HSDSCH-TDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSPDSCH-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
-- index of first HS-PDSCH code
HSPDSCH-First-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
    -- index of first HS-PDSCH code
HSPDSCH-Second-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
    -- index of second HS-PDSCH code
HSPDSCH-Second-Code-Support ::= BOOLEAN
    -- true: applied, false: not applied
HSDPA-Associated-PICH-InformationLCR ::= CHOICE {
   hsdpa-PICH-Shared-with-PCH
                                                   HSDPA-PICH-Shared-with-PCH,
   hsdpa-PICH-notShared-with-PCHLCR
                                                  HSDPA-PICH-notShared-with-PCHLCR,
    . . .
HSDPA-PICH-notShared-with-PCHLCR ::= SEQUENCE {
   hSDPA-PICH-notShared-ID
                                           CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                           TDD-ChannelisationCodeLCR,
   timeSlotLCR
                                           TimeSlotLCR,
   midambleShiftLCR
                                           MidambleShiftLCR,
    tdd-PhysicalChannelOffset
                                           TDD-PhysicalChannelOffset,
                                           RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                           RepetitionLength,
   pagingIndicatorLength
                                           PagingIndicatorLength,
   pICH-Power
                                           PICH-Power,
    second-TDD-ChannelisationCodeLCR
                                           TDD-ChannelisationCodeLCR,
    sttd-Indicator
                                           STTD-Indicator,
   iE-Extensions
                                           OPTIONAL,
HSDPA-PICH-notShared-with-PCHLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Common-System-InformationLCR ::= SEQUENCE {
   hsdsch-Common-InformationLCR
                                                   HSDSCH-Common-InformationLCR
                                                                                                                            OPTIONAL,
    commonMACFlow-Specific-InformationLCR
                                                   CommonMACFlow-Specific-InfoListLCR
                                                                                                                            OPTIONAL,
    common-H-RNTI-InformationLCR
                                                   Common-H-RNTI-InformationLCR
                                                                                                                            OPTIONAL,
    sync-InformationLCR
                                                   Sync-InformationLCR
                                                                                                                            OPTIONAL,
    tDD-AckNack-Power-Offset
                                                  TDD-AckNack-Power-Offset
                                                                                                                            OPTIONAL,
```

```
UL-SIR
    hSSICH-SIRTarget
                                                                                                                                 OPTIONAL,
    hSSICH-TPC-StepSize
                                                    TDD-TPC-UplinkStepSize-LCR
                                                                                                                                 OPTIONAL.
                                                     ProtocolExtensionContainer { { HSDSCH-Common-System-InformationLCR-ExtIEs } }
    iE-Extensions
    OPTIONAL,
HSDSCH-Common-System-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Common-System-Information-ResponseLCR ::= SEQUENCE
    hsSCCH-Specific-Information-ResponseLCR
                                                     HSSCCH-Specific-InformationRespListLCR
                                                                                                                          OPTIONAL.
    hARO-MemoryPartitioning
                                                     HARO-MemoryPartitioning
                                                                                                                          OPTIONAL.
-- This HARO Memory Partitioning Information is for the first Frequency repetition, HARO Memory Partitioning Information for Frequency repetitions
2 and on, should be defined in MultipleFreq-HARO-MemoryPartitioning-InformationList.
    commonMACFlow-Specific-Info-ResponseLCR
                                                     CommonMACFlow-Specific-InfoList-ResponseLCR
                                                     ProtocolExtensionContainer { { HSDSCH-Common-System-Information-ResponseLCR-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSDSCH-Common-System-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-UARFCNforNt
                                                                CRITICALITY ignore EXTENSION UARFON
                                                                                                                     PRESENCE optional } |
-- Applicable to 1.28Mcps TDD when using multiple frequencies. This is the UARFCN for the first Frequency repetition
{ ID id-MultipleFreq-HARQ-MemoryPartitioning-InformationList
                                                                CRITICALITY ignore EXTENSION MultipleFreq-HARQ-MemoryPartitioning-InformationList
    PRESENCE optional } |
-- Applicable to 1.28Mcps TDD when using multiple frequencies. This HARO MemoryPartitioning Information is for the 2nd and beyond frequencies.
{ ID id-CommonMACFlow-Specific-InfoList-ResponseLCR-Ext
                                                                CRITICALITY ignore EXTENSION CommonMACFlow-Specific-InfoList-ResponseLCR-Ext
    PRESENCE optional },
    . . .
HSDSCH-Common-InformationLCR ::= SEQUENCE {
    cCCH-PriorityOueue-Id
                                                                     PriorityOueue-Id.
    sRB1-PriorityQueue-Id
                                                                     PriorityQueue-Id,
    associatedCommon-MACFlowLCR
                                                                     Common-MACFlow-ID-LCR,
    fACH-Measurement-Occasion-Cycle-Length-Coefficient
                                                                     FACH-Measurement-Occasion-Cycle-Length-Coefficient
    OPTIONAL,
    bCCH-Specific-HSDSCH-RNTI-InformationLCR
                                                                     BCCH-Specific-HSDSCH-RNTI-InformationLCR
    OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCH-Common-InformationLCR-ExtIEs} }
    iE-Extensions
    OPTIONAL,
HSDSCH-Common-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Paging-System-InformationLCR ::= SEQUENCE {
    paging-MACFlow-Specific-InformationLCR
                                                     Paging-MACFlow-Specific-InformationLCR,
    hSSCCH-Power
                                                    DL-Power
        OPTIONAL,
```

```
hSPDSCH-Power
                                                    DL-Power
       OPTIONAL,
    reception-Window-Size
                                                    INTEGER (1..16)
       OPTIONAL,
                                                     INTEGER (1..8)
    n-PCH
        OPTIONAL,
    paging-Subchannel-Size
                                                    INTEGER(1..3)
       OPTIONAL,
    transport-Block-Size-List
                                                    Transport-Block-Size-List
       OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-Paging-System-InformationLCR-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSDSCH-Paging-System-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Paging-System-Information-ResponseLCR ::= SEQUENCE (SIZE (1..maxNrOfPagingMACFlow)) OF HSDSCH-Paging-System-Information-ResponseListLCR
HSDSCH-Paging-System-Information-ResponseListLCR ::= SEQUENCE {
                                                     Paging-MACFlow-ID,
    pagingMACFlow-ID
    bindingID
                                                     BindingID
                                                                                                 OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                                 OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst
                                                                DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst,
                                                     ProtocolExtensionContainer { { HSDSCH-Paging-System-Information-ResponseListLCR-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
HSDSCH-Paging-System-Information-ResponseListLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-ID-LCR ::= INTEGER (0..255)
HSSCCH-Specific-InformationRespListLCR ::= SEOUENCE (SIZE (1..maxNrOfHSSCCHsLCR)) OF HSSCCH-Specific-InformationRespItemLCR
HSSCCH-Specific-InformationRespItemLCR ::= SEQUENCE
    hs-scch-id-Lcr
                                                    HS-SCCH-ID-LCR,
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemLCR-ExtIEs } }
    OPTIONAL,
HSSCCH-Specific-InformationRespItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCH-Semi-PersistentScheduling-Information-LCR ::= SEQUENCE {
                                            Transport-Block-Size-List-LCR,
    transport-Block-Size-List
    repetition-Period-List-LCR
                                            Repetition-Period-List-LCR,
    hS-DSCH-SPS-Reservation-Indicator
                                            SPS-Reservation-Indicator
                                                                                     OPTIONAL,
    hS-DSCH-SPS-Operation-Indicator
                                            HS-DSCH-SPS-Operation-Indicator,
```

```
ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-LCR-ExtIEs } }
   iE-Extensions
       OPTIONAL.
    . . .
HS-DSCH-Semi-PersistentScheduling-Information-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transport-Block-Size-List-LCR ::= SEQUENCE (SIZE (1..maxNoOfTBSs-Mapping-HS-DSCH-SPS)) OF Transport-Block-Size-Item-LCR
Transport-Block-Size-Item-LCR ::= SEQUENCE {
   transport-Block-Size-maping-Index-LCR
                                              Transport-Block-Size-maping-Index-LCR,
    transport-Block-Size-Index-LCR
                                              Transport-Block-Size-Index-LCR,
   iE-Extensions
                                              ProtocolExtensionContainer { { Transport-Block-Size-Item-LCR-ExtIEs } }
                                                                                                                                  OPTIONAL,
Transport-Block-Size-Item-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
Transport-Block-Size-maping-Index-LCR ::= INTEGER (0..maxNoOfTBSs-Mapping-HS-DSCH-SPS-1)
Transport-Block-Size-Index-LCR ::= INTEGER (1..maxNoOfHS-DSCH-TBSsLCR)
Repetition-Period-List-LCR ::= SEOUENCE (SIZE (1..maxNoOfRepetition-Period-LCR)) OF Repetition-Period-Item-LCR
Repetition-Period-Item-LCR ::= SEQUENCE {
    repetitionPeriodIndex
                              RepetitionPeriodIndex,
    repetitionPeriod
                              RepetitionPeriod,
   repetitionLength
                              RepetitionLength
                                                             OPTIONAL,
   iE-Extensions
                              OPTIONAL,
Repetition-Period-Item-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RepetitionPeriodIndex ::= INTEGER (0..maxNoOfRepetitionPeriod-SPS-LCR-1)
SPS-Reservation-Indicator ::= ENUMERATED {
   reserve
HS-DSCH-SPS-Operation-Indicator ::= CHOICE {
   logicalChannellevel
                              LogicalChannellevel,
   priorityQueuelevel
                              PriorityQueuelevel,
LogicalChannellevel ::= BIT STRING (SIZE (16))
```

```
PriorityQueuelevel ::= BIT STRING (SIZE (8))
HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR ::= SEQUENCE {
    transport-Block-Size-List
                                            Transport-Block-Size-List-LCR
                                                                                     OPTIONAL,
    repetition-Period-List-LCR
                                            Repetition-Period-List-LCR
                                                                                     OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs } }
                            OPTIONAL,
HS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ID id-HS-DSCH-SPS-Reservation-Indicator
                                                CRITICALITY ignore EXTENSION SPS-Reservation-Indicator
                                                                                                                     PRESENCE optional }
{ ID id-HS-DSCH-SPS-Operation-Indicator
                                                CRITICALITY reject EXTENSION HS-DSCH-SPS-Operation-Indicator
                                                                                                                     PRESENCE optional },
HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR ::= SEQUENCE {
    hS-SICH-InformationList-for-HS-DSCH-SPS
                                                HS-SICH-InformationList-for-HS-DSCH-SPS,
                                                Initial-HS-PDSCH-SPS-Resource
    initial-HS-PDSCH-SPS-Resource
                                                                                         OPTIONAL,
    buffer-Size-for-HS-DSCH-SPS
                                                Process-Memory-Size
                                                                                         OPTIONAL,
    number-of-Processes-for-HS-DSCH-SPS
                                                Number-of-Processes-for-HS-DSCH-SPS
                                                                                        OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs } }
           OPTIONAL,
    . . .
HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-InformationList-for-HS-DSCH-SPS ::= SEQUENCE (SIZE (1..maxNoOf-HS-SICH-SPS)) OF HS-SICH-InformationItem-for-HS-DSCH-SPS
HS-SICH-InformationItem-for-HS-DSCH-SPS ::= SEQUENCE {
                                    HS-SICH-Mapping-Index
    hS-SICH-Mapping-Index
                                                                    OPTIONAL,
    -- the IE is madatory for 1.28Mcps TDD.
   hS-SICH-Type
                                    HS-SICH-Type,
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-SICH-InformationItem-for-HS-DSCH-SPS-ExtIEs } }
                                                                                                                                        OPTIONAL,
HS-SICH-InformationItem-for-HS-DSCH-SPS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-Mapping-Index ::= INTEGER (0..maxNoOf-HS-SICH-SPS-1)
HS-SICH-Type ::= CHOICE {
   hS-SCCH-Associated-HS-SICH
                                        HS-SCCH-Associated-HS-SICH,
    non-HS-SCCH-Associated-HS-SICH
                                        Non-HS-SCCH-Associated-HS-SICH,
HS-SCCH-Associated-HS-SICH ::= SEQUENCE {
```

```
hsSICH-ID
                                        HS-SICH-ID.
    extended-HS-SICH-ID
                                        Extended-HS-SICH-ID
                                                                     OPTIONAL,
Non-HS-SCCH-Associated-HS-SICH::= SEQUENCE {
    non-HS-SCCH-Aassociated-HS-SICH-ID Non-HS-SCCH-Aassociated-HS-SICH-ID.
Non-HS-SCCH-Aassociated-HS-SICH-ID ::= INTEGER (0..255)
Initial-HS-PDSCH-SPS-Resource::= SEQUENCE {
    repetitionPeriodIndex
                                                RepetitionPeriodIndex,
    repetitionLength
                                                RepetitionLength
                                                                             OPTIONAL,
    -- the IE is not used.
    hs-PDSCH-Offset
                                                TDD-PhysicalChannelOffset,
    timeslot-Resource-Related-Information
                                                HS-DSCH-TimeslotResourceLCR,
    startCode
                                                TDD-ChannelisationCode,
    endCode
                                                TDD-ChannelisationCode,
    transport-Block-Size-Index
                                                Transport-Block-Size-Index-LCR,
                                                ModulationSPS-LCR,
    modulationType
    hS-SICH-Mapping-Index
                                                HS-SICH-Mapping-Index,
                                                ProtocolExtensionContainer { { Initial-HS-PDSCH-SPS-Resource-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
Initial-HS-PDSCH-SPS-Resource-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                                                                                                 optional },
    { ID id-MidambleShiftLCR
                                CRITICALITY reject EXTENSION MidambleShiftLCR
                                                                                     PRESENCE
    -- mandaroty for 1.28Mcps TDD.
HS-DSCH-TimeslotResourceLCR ::= BIT STRING (SIZE (5))
ModulationSPS-LCR ::= ENUMERATED {
    aPSK,
    sixteenOAM,
    . . .
Number-of-Processes-for-HS-DSCH-SPS ::= INTEGER (1..16)
Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst::= SEOUENCE {
   non-HS-SCCH-Associated-HS-SICH-InformationList
                                                        Non-HS-SCCH-Associated-HS-SICH-InformationList,
    iE-Extensions
                                                         ProtocolExtensionContainer { Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-
PSCH-ReconfRqst-ExtIEs } }
                                    OPTIONAL,
Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext CRITICALITY reject
                                                                                                                  EXTENSION Non-HS-SCCH-Associated-
HS-SICH-InformationList-Ext
                                PRESENCE
```

```
Non-HS-SCCH-Associated-HS-SICH-InformationList ::= SEQUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Assosiated-HS-SICH)) OF Non-HS-SCCH-Associated-HS-SICH-
InformationItem
Non-HS-SCCH-Associated-HS-SICH-InformationList-Ext ::= SEOUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Assosiated-HS-SICH-Ext)) OF Non-HS-SCCH-Associated-HS-
SICH-InformationItem
Non-HS-SCCH-Associated-HS-SICH-InformationItem ::= SEQUENCE {
    non-HS-SCCH-Aassociated-HS-SICH-ID
                                            Non-HS-SCCH-Aassociated-HS-SICH-ID,
    timeSlotLCR
                                            TimeSlotLCR,
   midambleShiftLCR
                                            MidambleShiftLCR.
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode.
                                            UARFCN
    uARFCN
                                                                        OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs } }
    OPTIONAL,
Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst::= SEQUENCE {
    modify-non-HS-SCCH-Associated-HS-SICH-InformationList
                                                                Modify-Non-HS-SCCH-Associated-HS-SICH-InformationList,
    iE-Extensions
                                        ProtocolExtensionContainer { { Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst-
ExtIEs } }
                    OPTIONAL,
Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext CRITICALITY reject
                                                                                                                 EXTENSION Modify-Non-HS-SCCH-
Associated-HS-SICH-InformationList-Ext
                                            PRESENCE
                                                        optional }.
Modify-Non-HS-SCCH-Associated-HS-SICH-InformationList ::= SEQUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Assosiated-HS-SICH)) OF Modify-Non-HS-SCCH-
Associated-HS-SICH-InformationItem
Modify-Non-HS-SCCH-Associated-HS-SICH-InformationList-Ext ::= SEQUENCE (SIZE (0.. maxNoOfNon-HS-SCCH-Assosiated-HS-SICH-Ext)) OF Modify-Non-HS-
SCCH-Associated-HS-SICH-InformationItem
Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem ::= SEOUENCE {
    non-HS-SCCH-Aassociated-HS-SICH-ID
                                            Non-HS-SCCH-Aassociated-HS-SICH-ID.
    timeSlotLCR
                                            TimeSlotLCR
                                                                            OPTIONAL
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                            OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                            OPTIONAL
    uARFCN
                                            UARFCN
                                                                            OPTIONAL,
                                            ProtocolExtensionContainer { { Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs } }
    iE-Extensions
       OPTIONAL,
```

```
Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Assosiated-HS-SICH)) OF
Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqstItem
Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext ::= SEQUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Associated-HS-SICH-Ext))
OF Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqstItem
Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgstItem ::= SEQUENCE {
non-HS-SCCH-Aassociated-HS-SICH-ID
                                         Non-HS-SCCH-Aassociated-HS-SICH-ID,
MIMO-ReferenceSignal-InformationListLCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSICH-ReferenceSignal-InformationLCR
HSSICH-ReferenceSignal-InformationLCR ::= SEQUENCE {
   midambleConfigurationLCR MidambleConfigurationLCR,
   midambleShift
                                  INTEGER (0..15),
   timeSlotLCR
                                  TimeSlotLCR,
                                  ProtocolExtensionContainer { { HSSICH-ReferenceSignal-InformationLCR-ExtIEs } }
   iE-Extensions
                                                                                                                           OPTIONAL,
HSSICH-ReferenceSignal-InformationLCR-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-ReferenceSignal-InformationModifyLCR ::= SEQUENCE {
   hSSICH-ReferenceSignal-InformationLCR
                                              HSSICH-ReferenceSignal-InformationLCR OPTIONAL,
                                  ProtocolExtensionContainer { { HSSICH-ReferenceSignal-InformationModifyLCR-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
HSSICH-ReferenceSignal-InformationModifyLCR-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
-- ------
-- ------
IB-OC-ID ::= INTEGER (1..16)
IB-SG-DATA ::= BIT STRING
-- Contains SIB data fixed" or "SIB data variable" in segment as encoded in ref.TS 25.331 [18].
IB-SG-POS ::= INTEGER (0..4094)
-- Only even positions allowed
IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}
```

```
IB-Type ::= ENUMERATED {
    mIB,
    sB1,
    sB2,
    sIB1,
    sIB2,
    sIB3.
    sIB4,
    sIB5,
    sIB6,
    sIB7,
    not-Used-sIB8,
    not-Used-sIB9,
    not-Used-sIB10,
    sIB11,
    sIB12,
    sIB13,
    sIB13dot1,
    sIB13dot2,
    sIB13dot3,
    sIB13dot4,
    sIB14,
    sIB15.
    sIB15dot1,
    sIB15dot2,
    sIB15dot3,
    sIB16,
    sIB17,
    sIB15dot4,
    sIB18,
    sIB15dot5,
    sIB5bis,
    sIB11bis.
    sIB15bis,
    sIB15dot1bis,
    sIB15dot2bis,
    sIB15dot3bis,
    sIB15dot6,
    sIB15dot7,
    sIB15dot8,
    sIB15dot2ter,
    sIB19
IMB-Parameters ::= SEQUENCE {
    sub-Frame-Number
                                              Sub-Frame-Number,
                                              FDD-DL-ChannelisationCodeNumber
    fdd-dl-ChannelisationCodeNumber
                                                                                                                         OPTIONAL,
                                             ProtocolExtensionContainer { { IMB-Parameters-ExtIEs} }
    ie-Extensions
                                                                                                                         OPTIONAL,
```

```
IMB-Parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Inactivity-Threshold-for-UE-DRX-Cycle ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512}
-- Unit subframe
Inactivity-Threshold-for-UE-DTX-Cycle2 ::= ENUMERATED {v1, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI
Inactivity-Threshold-for-UE-Grant-Monitoring ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI
InformationReportCharacteristics ::= CHOICE {
    onDemand
                            InformationReportCharacteristicsType-ReportPeriodicity,
    periodic
    onModification
                            InformationReportCharacteristicsType-OnModification,
InformationReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
                        ReportPeriodicity-Scaledmin,
    hours
                        ReportPeriodicity-Scaledhour,
InformationReportCharacteristicsType-OnModification ::= SEQUENCE
    information-thresholds
                                  InformationThresholds
                                                            OPTIONAL,
    ie-Extensions
                                  ProtocolExtensionContainer { { InformationReportCharacteristicsType-OnModification-ExtIEs} } OPTIONAL,
InformationReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
InformationThresholds ::= CHOICE {
    dgps
                        DGPSThresholds,
    dGANSSThreshold
                        DGANSSThreshold
InformationExchangeID ::= INTEGER (0..1048575)
InformationType ::= SEQUENCE {
    information-Type-Item
                                Information-Type-Item,
                                GPS-Information
    qPSInformation
                                                                                                 OPTIONAL,
    -- The IE shall be present if the Information Type Item IE indicates "GPS Information".
```

```
iE-Extensions
                                ProtocolExtensionContainer { { Information-Type-ExtIEs} }
                                                                                                 OPTIONAL,
Information-Type-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- The following IE shall be present if the Information Type Item IE indicates "GANSS Information"
                                        CRITICALITY ignore EXTENSION GANSS-Information
    { ID id-GANSS-Information
                                                                                                 PRESENCE conditional } |
-- The following IE shall be present if the Information Type Item IE indicates "DGANSS Corrections"
    { ID id-DGANSS-Corrections-Req
                                        CRITICALITY ignore EXTENSION DGANSS-Corrections-Req
                                                                                                 PRESENCE conditional },
Information-Type-Item ::= ENUMERATED {
    qpsinformation,
    dqpscorrections,
    qpsrxpos,
    gANSSInformation,
    dGANSSCorrections,
    gANSS-RX-Pos
Initial-DL-DPCH-TimingAdjustment-Allowed ::= ENUMERATED
    initial-DL-DPCH-TimingAdjustment-Allowed
InnerLoopDLPCStatus ::= ENUMERATED {
    active,
    inactive
IPDL-Indicator ::= ENUMERATED {
    active,
    inactive
IPDL-FDD-Parameters ::= SEQUENCE {
    iP-SpacingFDD
                                    ENUMERATED{sp5,sp7,sp10,sp15,sp20,sp30,sp40,sp50,...},
                                    ENUMERATED{len5, len10},
   iP-Length
                                    INTEGER(0..63),
    seed
   burstModeParams
                                    BurstModeParams
                                                        OPTIONAL,
    iP-Offset
                                    INTEGER (0..9),
                                    ProtocolExtensionContainer { { IPDLFDDParameter-ExtIEs} }
    iE-Extensions
                                                                                                 OPTIONAL,
IPDLFDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
IPDL-TDD-Parameters ::= SEQUENCE {
                                   ENUMERATED{sp30,sp40,sp50,sp70,sp100,...},
   iP-SpacingTDD
   iP-Start
                                   INTEGER (0..4095),
   iP-Slot
                                   INTEGER (0..14),
   iP-PCCPCH
                                   ENUMERATED{switchOff-1-Frame, switchOff-2-Frames},
                                   BurstModeParams
                                                      OPTIONAL,
   burstModeParams
                           ProtocolExtensionContainer { { IPDLTDDParameter-ExtIEs} }
   iE-Extensions
                                                                                      OPTIONAL,
IPDL-TDD-Parameters-LCR ::= SEQUENCE
                                   ENUMERATED { sp30, sp40, sp50, sp70, sp100, ... },
   iP-SpacingTDD
   iP-Start
                                   INTEGER (0..4095),
   iP-Sub
                                   ENUMERATED{first, second, both},
   burstModeParams
                                   BurstModeParams
                                                      OPTIONAL,
   iE-Extensions
                           OPTIONAL,
IPMulticastIndication ::= SEQUENCE {
   transportLayerAddress
                                   TransportLayerAddress,
   bindingID
                                   BindingID,
   cFNOffset
                                   INTEGER (0..255),
                           ProtocolExtensionContainer { { IPMulticastIndication-ExtIEs} } OPTIONAL,
   iE-Extensions
IPMulticastIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPMulticastDataBearerIndication ::= BOOLEAN
-- true: IP Multicast used, false: IP Multicast not used
BurstModeParams ::= SEOUENCE {
   burstStart
                                       INTEGER (0..15),
   burstLength
                                       INTEGER (10..25),
   burstFreq
                                       INTEGER (1..16),
IPDLTDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLTDDParameterLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IdleIntervalInformation ::= SEQUENCE {
   idleIntervalInfo-k
                                               INTEGER{none(0), two(2), three(3)} (0..3),
   idleIntervalInfo-offset
                                               INTEGER (0..7),
```

```
-- -----
-- -----
__ ______
__ ______
-- -----
LimitedPowerIncrease ::= ENUMERATED {
   used,
   not-used
Local-Cell-ID ::= INTEGER (0..268435455)
LTGI-Presence ::= BOOLEAN
-- True = the Long Term Grant Indicator shall be used within E-DCH grants
LCRTDD-Uplink-Physical-Channel-Capability ::= SEQUENCE {
   maxTimeslotsPerSubFrame
                               INTEGER(1..6),
                               ENUMERATED {one, two, ..., three, four},
   maxPhysChPerTimeslot
                               ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs} } OPTIONAL,
   iE-Extensions
LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- ------
-- -----
MAC-DTX-Cycle-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
MAC-DTX-Cycle-10ms ::= ENUMERATED {v5, v10, v20}
MAC-ehs-Reset-Timer ::= ENUMERATED {v1, v2, v3, v4,...}
MACdPDU-Size ::= INTEGER (1..5000,...)
   -- In case of E-DCH value 8 and values not multiple of 8 shall not be used
MAC-PDU-SizeExtended ::= INTEGER (1..1504,...,1505)
   -- In case of E-DCH value 1 shall not be used
MAC-Inactivity-Threshold ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
   -- Unit subframe
```

```
MACdPDU-Size-Indexlist ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-Size-IndexItem
MACdPDU-Size-IndexItem ::= SEQUENCE {
    sID
                                      SID,
    macdPDU-Size
                                      MACdPDU-Size.
                                      iE-Extensions
                                                                                                                    OPTIONAL,
MACdPDU-Size-IndexItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MACdPDU-Size-Indexlist-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-Size-IndexItem-to-Modify
MACdPDU-Size-IndexItem-to-Modify ::= SEQUENCE {
   macdPDU-Size
                                      MACdPDU-Size,
                                      ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-to-Modify-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
MACdPDU-Size-IndexItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MACesGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..256000000)
MACes-Maximum-Bitrate-LCR ::= INTEGER (0..256000000,...)
MACeReset-Indicator ::= ENUMERATED {mACeReset}
MAChsGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..256000000)
MAChsReorderingBufferSize-for-RLC-UM ::= INTEGER (0..300,...)
-- Unit kBytes
                       ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,..., v64, v128}
MAC-hsWindowSize
-- For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,...)
MAChsResetScheme ::= ENUMERATED {
    always,
    interNodeB-change
MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range OdBm .. 50dBm, Step +0.1dB
Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(1..maxNrOfBits-MACe-PDU-non-scheduled)
Max-EDCH-Resource-Allocation-for-CCCH ::= ENUMERATED {v8, v12, v16, v24, v32, v40, v80, v120,..., v20}
-- Value "v120" should not be used
```

```
Max-Period-for-Collistion-Resolution ::= INTEGER(8..24,...)
Max-TB-Sizes ::= SEQUENCE {
    maximum-TB-Size-cell-edge-users
                                        INTEGER (0..5000,...),
    maximum-TB-Size-other-users
                                        INTEGER (0..5000,...),
                                        ProtocolExtensionContainer { {Max-TB-Sizes-ExtIEs} } OPTIONAL,
    iE-Extensions
Max-TB-Sizes-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Maximum-Number-of-Retransmissions-For-E-DCH ::= INTEGER (0..15)
Maximum-Target-ReceivedTotalWideBandPower-LCR ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in TS 25.123 [23]
MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range OdBm .. 50dBm, Step +0.1dB
MaxNrOfUL-DPDCHs ::= INTEGER (1..6)
MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    . . . ,
    shift16
Max-Set-E-DPDCHs ::= ENUMERATED {
    vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,
    v2xM2plus2xM4
-- Values related to TS 25.212 [8]
Max-UE-DTX-Cycle ::= ENUMERATED {
    v5, v10, v20, v40, v64, v80, v128, v160,
MBMS-Capability ::= ENUMERATED{
   mbms-capable,
   mbms-non-capable
MeasurementFilterCoefficient ::= ENUMERATED {k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement
```

```
MeasurementID ::= INTEGER (0..1048575)
Measurement-Power-Offset ::= INTEGER(-12 .. 26)
-- Actual value = IE value * 0.5
MeasurementRecoveryBehavior ::= NULL
MeasurementRecoveryReportingIndicator ::= NULL
MeasurementRecoverySupportIndicator ::= NULL
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
   SEQUENCE {
       iE-ID
                              ProtocolIE-ID,
       repetitionNumber
                              RepetitionNumber1
                                                    OPTIONAL,
                              ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
       iE-Extensions
MessageStructure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-CFN ::= INTEGER (0..4095)
MICH-Mode ::= ENUMERATED {
   v18,
   v36,
   v72,
   v144,
   v16,
   v32,
   v64,
   v128
                             ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}
MidambleConfigurationLCR ::=
MidambleConfigurationBurstType1And3 ::=
                                         ENUMERATED {v4, v8, v16}
MidambleConfigurationBurstType2 ::=
                                     ENUMERATED {v3, v6}
MidambleShiftAndBurstType ::=
                                  CHOICE {
                                     SEQUENCE {
   type1
       midambleAllocationMode
                                         CHOICE {
           defaultMidamble
                                             NULL,
           commonMidamble
           ueSpecificMidamble
                                             MidambleShiftLong,
       },
```

```
},
    type2
                                         SEQUENCE {
        midambleConfigurationBurstType2
                                            MidambleConfigurationBurstType2,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
                                                 MidambleShiftShort,
            ueSpecificMidamble
        . . .
    type3
                                        SEQUENCE
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
            ueSpecificMidamble
                                                 MidambleShiftLong,
        . . .
MidambleShiftLong ::=
                                    INTEGER (0..15)
MidambleShiftShort ::=
                                     INTEGER (0..5)
MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode
                                MidambleAllocationMode,
    midambleShift
                                MidambleShiftLong
                                                         OPTIONAL,
    -- The IE shall be present if the Midamble Allocation Mode IE is set to "UE specific midamble".
    midambleConfigurationLCR
                                    MidambleConfigurationLCR,
    iE-Extensions
                                ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }
                                                                                                  OPTIONAL,
    . . .
MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble,
    commonMidamble,
    uESpecificMidamble,
MidambleShiftLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MidambleShiftAndBurstType768 ::=
                                        CHOICE
    type1
                                         SEQUENCE
        midambleConfigurationBurstType1And3
                                                 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                             CHOICE
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
                                                 MidambleShiftLong,
            ueSpecificMidamble
```

```
type2
                                         SEQUENCE
                                                 MidambleConfigurationBurstType2-768,
        midambleConfigurationBurstType2-768
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                 NULL.
            commonMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftShort768,
                                         SEQUENCE
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                         CHOICE {
            defaultMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftLong,
MidambleConfigurationBurstType2-768 ::=
                                             ENUMERATED {v4, v8}
MidambleShiftShort768 ::=
                                         INTEGER (0..7)
MIMO-ActivationIndicator ::= NULL
MIMO-Capability ::= ENUMERATED {
    mimo-capable,
    mimo-non-capable
MIMO-Mode-Indicator ::= ENUMERATED
    activate,
    deactivate
MIMO-N-M-Ratio ::= ENUMERATED {v1-2, v2-3, v3-4, v4-5, v5-6, v6-7, v7-8, v8-9, v9-10, v1-1,...}
MIMO-PilotConfiguration ::= CHOICE {
    primary-and-secondary-CPICH
                                             CommonPhysicalChannelID,
    normal-and-diversity-primary-CPICH
                                             NULL,
{\tt MIMO-PilotConfigurationExtension} \ ::= \ {\tt CHOICE}
    primary-and-secondary-CPICH
                                             PrimaryAndSecondaryCPICHContainer,
    normal-and-diversity-primary-CPICH
                                             NormalAndDiversityPrimaryCPICHContainer,
```

```
MIMO-PowerOffsetForS-CPICHCapability ::= ENUMERATED {
    s-CPICH-Power-Offset-Capable,
    s-CPICH-Power-Offset-Not-Capable
MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB
MinimumReducedE-DPDCH-GainFactor ::= ENUMERATED {m8-15, m11-15, m15-15, m21-15, m30-15, m42-15, m60-15, m84-15,...}
MinSpreadingFactor ::= ENUMERATED {
       v4,
        v8,
       v16,
        v32,
        v64,
       v128,
       v256,
        v512
-- TDD Mapping scheme for the minimum spreading factor 1 and 2: "256" means 1, "512" means 2
Modification-Period ::= ENUMERATED { v1280, v2560, v5120, v10240,...}
ModifyPriorityQueue ::= CHOICE {
                                PriorityQueue-InfoItem-to-Add,
    addPriorityQueue
    modifyPriorityQueue
                                PriorityQueue-InfoItem-to-Modify,
    deletePriorityQueue
                                PriorityQueue-Id,
    . . .
Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    -- 8PSK denotes 16QAM for S-CCPCH
MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16.
    v32,
    v64,
    v128,
    v256,
MultiplexingPosition ::= ENUMERATED {
```

```
fixed.
    flexible
MAChs-ResetIndicator ::= ENUMERATED{
    mAChs-NotReset
ModulationMBSFN ::= ENUMERATED {
    qPSK,
    sixteenQAM,
    . . .
MBSFN-CPICH-secondary-CCPCH-power-offset ::= INTEGER(-11..4,...)
-- Unit dB, Step 1 dB, Range -11..4 dB.
ModulationPO-MBSFN ::= CHOICE {
                       MBSFN-CPICH-secondary-CCPCH-power-offset,
    sixteenOAM
MBSFN-Only-Mode-Indicator ::= ENUMERATED {
    mBSFN-Only-Mode
MBSFN-Only-Mode-Capability ::= ENUMERATED {
    mBSFN-Only-Mode-capable,
    mBSFN-Only-Mode-non-capable
Multicarrier-Number ::= INTEGER (1..maxHSDPAFrequency)
MultipleFreq-HARQ-MemoryPartitioning-InformationList ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF MultipleFreq-HARQ-MemoryPartitioning-
InformationItem
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-HARO-MemoryPartitioning-InformationItem ::= SEOUENCE {
    hARQ-MemoryPartitioning
                                                HARQ-MemoryPartitioning,
    uARFCN
                                                UARFCN,
                                    ProtocolExtensionContainer { { MultipleFreq-HARQ-MemoryPartitioning-InformationItem-ExtIEs} }
    iE-Extensions
           OPTIONAL,
MultipleFreq-HARQ-MemoryPartitioning-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR ::= SEQUENCE (SIZE (1.. maxHSDPAFrequency-1)) OF MultipleFreq-HSPDSCH-InformationItem-
ResponseTDDLCR
--Includes the 2nd through the max number of frequency repetitions.
MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR ::= SEQUENCE{
```

```
hsSCCH-Specific-Information-ResponseTDDLCR
                                              HSSCCH-Specific-InformationRespListTDDLCR OPTIONAL,
   hARO-MemoryPartitioning
                                              HARO-MemoryPartitioning
                                                                                     OPTIONAL.
   uARFCN
                                              UARFCN, -- This is the UARFCN for the second and beyond Frequency repetition.
   iE-Extensions
                                              ProtocolExtensionContainer { { MultipleFreg-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs } }
      OPTIONAL.
MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multi-Cell-Capability ::= ENUMERATED {
   multi-Cell-Capable,
   multi-Cell-non-Capable
Multi-Cell-Capability-Info::= SEQUENCE {
   multi-Cell-Capability
                                                        Multi-Cell-Capability,
   possible-Secondary-Serving-Cell-List
                                                        Possible-Secondary-Serving-Cell-List
                                                                                                   OPTIONAL.
   iE-Extensions
                            ProtocolExtensionContainer { { Multi-Cell-Capability-Info-ExtIEs } }
                                                                                                   OPTIONAL,
Multi-Cell-Capability-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                            ::= ProtocolIE-Single-Container { {Multicell-EDCH-InformationItem} }
Multicell-EDCH-Information
Multicell-EDCH-InformationItem NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
Multicell-EDCH-InformationItemIEs ::= SEOUENCE
   dL-PowerBalancing-Information
                                          DL-PowerBalancing-Information
                                                                                 OPTIONAL.
   minimumReducedE-DPDCH-GainFactor
                                          MinimumReducedE-DPDCH-GainFactor
                                                                                 OPTIONAL,
   secondary-UL-Frequency-Activation-State
                                          Secondary-UL-Frequency-Activation-State
                                                                                 OPTIONAL,
                    ProtocolExtensionContainer { { Multicell-EDCH-InformationItemIEs-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
Multicell-EDCH-InformationItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
                                      ::= ProtocolIE-Single-Container { { Multicell-EDCH-RL-Specific-InformationItem} }
Multicell-EDCH-RL-Specific-Information
Multicell-EDCH-RL-Specific-InformationItem NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
```

```
Multicell-EDCH-RL-Specific-InformationItemIEs::= SEQUENCE {
    extendedPropagationDelay
                                               ExtendedPropagationDelay
                                                                                          OPTIONAL.
    primary-CPICH-Usage-for-Channel-Estimation Primary-CPICH-Usage-for-Channel-Estimation OPTIONAL,
    secondary-CPICH-Information
                                               CommonPhysicalChannelID
                                                                                          OPTIONAL,
    secondary-CPICH-Information-Change
                                               Secondary-CPICH-Information-Change
                                                                                          OPTIONAL,
    e-AGCH-PowerOffset
                                               E-AGCH-PowerOffset
                                                                                          OPTIONAL,
    e-RGCH-PowerOffset
                                               E-RGCH-PowerOffset
                                                                                          OPTIONAL,
    e-HICH-PowerOffset
                                               E-HICH-PowerOffset
                                                                                          OPTIONAL,
    dLReferencePower
                                               DI-Power
                                                                                          OPTIONAL,
    e-DCH-DL-Control-Channel-Grant
                                               NULL
                                                                                          OPTIONAL,
                       ProtocolExtensionContainer { { Multicell-EDCH-RL-Specific-InformationItemIEs-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Multicell-EDCH-RL-Specific-InformationItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MIMO-SFMode-For-HSPDSCHDualStream ::= ENUMERATED {
    sF1.
    sF1SF16
__ ______
-- ------
Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. TS 25.213 [9] subclause 4.2.1
NCyclesPerSFNperiod ::= ENUMERATED {
    v1.
    v2,
    v4.
    v8,
    . . . ,
    v16,
    v32,
    v64
NRepetitionsPerCyclePeriod ::= INTEGER (2..10)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
N-PROTECT ::= INTEGER(0...7)
NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
        CHOICE {
               neighbouring FDD Cell Measurement Information
                                                              NeighbouringFDDCellMeasurementInformation, -- FDD only
               {\tt neighbouring TDD Cell Measurement Information}
                                                              NeighbouringTDDCellMeasurementInformation,
```

```
-- Applicable to 3.84Mcps TDD only
                extension-neighbouringCellMeasurementInformation
                                                                    Extension-neighbouringCellMeasurementInformation
Extension-neighbouringCellMeasurementInformation
                                                  ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
Extension-neighbouringCellMeasurementInformationIE NBAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR
                                                            CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR
                                                                                                                                        PRESENCE
mandatory } -- Applicable to 1.28Mcps TDD only
    { ID id-neighbouringTDDCellMeasurementInformation768
                                                            CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformation768
                                                                                                                                        PRESENCE
mandatory }, -- Applicable to 7.68Mcps TDD only
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id
                                        UC-Id,
    uARFCN
                                        UARFCN,
    primaryScramblingCode
                                        PrimaryScramblingCode,
                                        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id
                                        UC-Id,
    uARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlot
                                        TimeSlot
                                                                        OPTIONAL,
    midambleShiftAndBurstType
                                        MidambleShiftAndBurstType
                                                                        OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringTDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE {
    uC-Id
                                        UC-Id,
    uARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlotLCR
                                        TimeSlotLCR
                                                                OPTIONAL,
    midambleShiftLCR
                                        MidambleShiftLCR
                                                                OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs} } OPTIONAL,
    iE-Extensions
NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
NeighbouringTDDCellMeasurementInformation768 ::= SEQUENCE
   uC-Id
                                    UC-Id,
   uARFCN
                                    UARFCN.
   cellParameterID
                                    CellParameterID,
   timeSlot
                                    TimeSlot
                                                                 OPTIONAL,
   midambleShiftAndBurstType768
                                    MidambleShiftAndBurstType768
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformation768Item-ExtIEs} } OPTIONAL,
   iE-Extensions
NeighbouringTDDCellMeasurementInformation768Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NonCellSpecificTxDiversity ::= ENUMERATED
   txDiversity,
   . . .
Non-Serving-RL-Preconfig-Setup ::= SEQUENCE
   new-non-serving-RL-selection New-non-serving-RL-setup-selection,
   iE-Extensions
                         ProtocolExtensionContainer { {Non-Serving-RL-Preconfig-Setup-ExtIEs} } OPTIONAL,
Non-Serving-RL-Preconfig-Setup-ExtIEs NBAP-PROTOCOL-EXTENSION: =
   Setup PRESENCE optional },
   . . .
Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup ::= NULL
New-non-serving-RL-setup-selection ::= CHOICE {
   new-Serving-RL-in-NodeB
                                        NULL,
   new-Serving-RL-Not-in-NodeB
                                       NULL,
   new-Serving-RL-in-or-Not-in-NodeB
                                       NULL,
Non-Serving-RL-Preconfig-Info ::= SEQUENCE
   new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-A E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,
   new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-B E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,
   new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-C E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,
                         ProtocolExtensionContainer { {Non-Serving-RL-Preconfig-Info-ExtIEs} } OPTIONAL,
```

```
Non-Serving-RL-Preconfig-Info-ExtIEs
                                       NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList CRITICALITY ignore
                                                                                                                EXTENSION Additional-E-DCH-New-non-
serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList PRESENCE optional },
Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList ::= SEQUENCE(SIZE(1.. maxNrOfEDCH-1)) OF SEQUENCE {
    new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-A E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,
    new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-B E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,
    new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-C E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,
                           ProtocolExtensionContainer { { Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList-ExtIEs} }
OPTIONAL,
    . . .
Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
NI-Information ::= SEQUENCE (SIZE (1..maxNrOfNIs)) OF Notification-Indicator
Notification-Indicator ::= INTEGER (0..65535)
NodeB-CommunicationContextID ::= INTEGER (0..1048575)
NormalAndDiversityPrimaryCPICHContainer ::= SEQUENCE {
                                            ProtocolExtensionContainer { { NormalAndDiversityPrimaryCPICHContainer-ExtIEs} } OPTIONAL,
        iE-Extensions
NormalAndDiversityPrimaryCPICHContainer-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NotificationIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8,
NumberOfReportedCellPortions ::= INTEGER (1..maxNrOfCellPortionsPerCell,...)
NumberOfReportedCellPortionsLCR ::= INTEGER (1..maxNrOfCellPortionsPerCellLCR,...)
Number-of-PCCH-transmission ::= INTEGER (1..5)
NSubCyclesPerCyclePeriod ::= INTEGER (1..16,...)
N-E-UCCH ::= INTEGER (1..12)
```

```
N-E-UCCHLCR ::= INTEGER (1..8)
Number-Of-Supported-Carriers ::= ENUMERATED {
   one-one-carrier.
   one-three-carrier,
   three-three-carrier,
   one-six-carrier,
   three-six-carrier,
   six-six-carrier,
NumHS-SCCH-Codes ::= INTEGER (1..maxNrOfHSSCCHCodes)
NoOfTargetCellHS-SCCH-Order::= INTEGER (1..30)
-- -----
-- -----
Out-of-Sychronization-Window ::= ENUMERATED {
   ms40,
   ms80,
   ms160,
   ms320,
   ms640,
  _____
-- -----
PagingIndicatorLength ::= ENUMERATED {
   v2,
   v4,
   v8,
Paging-MACFlow-ID ::= INTEGER (0..maxNrOfPagingMACFlow-1)
PayloadCRC-PresenceIndicator ::= ENUMERATED {
   cRC-Included,
   cRC-NotIncluded,
PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
```

```
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
PDSCH-ID ::= INTEGER (0..255)
PDSCH-ID768 ::= INTEGER (0..511)
PDSCHSet-ID ::= INTEGER (0..255)
PICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72.
    v144.
PICH-Power ::= INTEGER (-10..5)
-- Unit dB, Range -10dB .. +5dB, Step +1dB
Paging-MACFlows-to-DeleteFDD ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MACFlows-to-DeleteFDD-Item
Paging-MACFlows-to-DeleteFDD-Item ::= SEQUENCE {
                                                    Paging-MACFlow-ID,
    paging-MACFlow-ID
                                                    ProtocolExtensionContainer { { Paging-MACFlows-to-DeleteFDD-Item-ExtIEs} }
   iE-Extensions
       OPTIONAL,
    . . .
Paging-MACFlows-to-DeleteFDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Paging-MACFlow-Specific-Information ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MAC-Flow-Specific-Information-Item
Paging-MAC-Flow-Specific-Information-Item ::= SEQUENCE {
    paging-MACFlow-Id
                                                    Paging-MACFlow-ID,
    hSDPA-associated-PICH-Info
                                                     HSDPA-Associated-PICH-Information,
   bindingID
                                                    BindingID
                                                                                                 OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                                 OPTIONAL,
    tnl-qos
                                                    Tnl0os
                                                                                                 OPTIONAL,
    toAWS
                                                    ToAWS,
                                                    TOAWE,
    toAWE
    paging-MACFlow-PriorityQueue-Information
                                                    Paging-MACFlow-PriorityQueue-Information
                                                                                                 OPTIONAL,
                                                     ProtocolExtensionContainer { { Paging-MAC-Flow-Specific-Information-Item-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Paging-MAC-Flow-Specific-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerRequestIndicator
                                                CRITICALITY ignore EXTENSION TransportBearerRequestIndicator
                                                                                                                     PRESENCE optional },
-- This IE should not be contained if the MAC flow is setup in procedure, and it should be contained if the MAC flow is modified in procedure.
```

```
Paging-MACFlow-PriorityQueue-Information ::= SEQUENCE (SIZE (1..maxNrOfpagingMACQueues)) OF Paging-MACFlow-PriorityQueue-Item
Paging-MACFlow-PriorityQueue-Item ::= SEQUENCE {
    priority-Oueue-Information-for-Enhanced-PCH
                                                    Priority-Queue-Information-for-Enhanced-FACH-PCH,
       iE-Extensions
                                                        ProtocolExtensionContainer { { Paging-MACFlow-PriorityOueue-Item-ExtIEs } }
   OPTIONAL,
    . . .
Paging-MACFlow-PriorityQueue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Pattern-Sequence-Identifier ::= INTEGER (1.. maxNrOfDCHMeasurementOccasionPatternSequence)
PhysicalChannelID-for-CommonERNTI-RequestedIndicator ::= ENUMERATED {
    requested
PLCCHsequenceNumber ::= INTEGER (0..14)
PLCCHinformation ::= SEQUENCE {
                                            CommonPhysicalChannelID,
    commonPhysicalChannelID
    sequenceNumber
                                           PLCCHsequenceNumber,
    iE-Extensions
                                            ProtocolExtensionContainer { { PLCCHinformation-ExtIEs} }
                                                                                                                        OPTIONAL,
PLCCHinformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Possible-Secondary-Serving-Cell-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Possible-Secondary-Serving-Cell
Possible-Secondary-Serving-Cell ::= SEQUENCE {
   local-Cell-ID Local-Cell-ID,
                               ProtocolExtensionContainer { { Possible-Secondary-Serving-Cell-ExtIEs } }
    iE-Extensions
                                                                                                                                OPTIONAL,
Possible-Secondary-Serving-Cell-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerAdjustmentType ::= ENUMERATED {
   none,
    common,
    individual
PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range OdB .. +6dB, Step +0.25dB
```

```
PowerOffsetForSecondaryCPICHforMIMO ::= INTEGER (-6..0)
-- Unit dB, Range -6dB .. 0dB, Step +1dB
PowerRaiseLimit ::= INTEGER (0..10)
PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    . . .
PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters
PRCDeviation ::= ENUMERATED {
   one,
   two,
   five,
   ten,
PrecodingWeightSetRestriction ::= ENUMERATED {
    preferred,
    not-preferred
PreambleSignatures ::= BIT STRING {
                                     signature15(0),
                                     signature14(1),
                                     signature13(2),
                                     signature12(3),
                                     signature11(4),
                                     signature10(5),
                                     signature9(6),
                                     signature8(7),
                                     signature7(8),
                                     signature6(9),
                                     signature5(10),
                                     signature4(11),
                                     signature3(12),
                                     signature2(13),
                                     signature1(14),
                                     signature0(15)
                                     } (SIZE (16))
PreambleThreshold ::= INTEGER (0..72)
-- 0= -36.0dB, 1= -35.5dB, ..., 72= 0.0dB
PredictedSFNSFNDeviationLimit ::=INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
PredictedTUTRANGPSDeviationLimit ::= INTEGER (1..256)
```

```
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
Pre-emptionCapability ::= ENUMERATED {
    shall-not-trigger-pre-emption,
    may-trigger-pre-emption
Pre-emptionVulnerability ::= ENUMERATED {
    not-pre-emptable,
    pre-emptable
PrimaryAndSecondaryCPICHContainer ::= SEQUENCE {
    power-Offset-For-Secondary-CPICH-for-MIMO
                                                    PowerOffsetForSecondaryCPICHforMIMO,
                                        ProtocolExtensionContainer { { PrimaryAndSecondaryCPICHContainer-ExtIEs} } OPTIONAL,
    iE-Extensions
PrimaryAndSecondaryCPICHContainer-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm
Primary-CPICH-Usage-for-Channel-Estimation ::= ENUMERATED
  primary-CPICH-may-be-used,
   primary-CPICH-shall-not-be-used
PrimaryScramblingCode ::= INTEGER (0..511)
PriorityLevel
                           ::= INTEGER (0..15)
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority
Priority-Queue-Information-for-Enhanced-FACH-PCH ::= SEQUENCE {
    priorityQueue-Id
                                        PriorityQueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    mAC-ehs-Reset-Timer
                                        MAC-ehs-Reset-Timer,
    -- shall be ignored in case of Enhanced PCH
    discardTimer
                                        DiscardTimer
                                                                                OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    maximum-MACcPDU-Size
                                        MAC-PDU-SizeExtended,
    iE-Extensions
                                        ProtocolExtensionContainer { { Priority-Queue-Information-for-Enhanced-FACH-PCH-ExtIEs } }
    OPTIONAL,
Priority-Queue-Information-for-Enhanced-FACH-PCH-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
```

```
PriorityQueue-Id ::= INTEGER (0..maxNrOfPriorityQueues-1)
PriorityOueue-InfoList ::= SEQUENCE (SIZE (1..maxNrOfPriorityOueues)) OF PriorityOueue-InfoItem
PriorityOueue-InfoItem ::= SEQUENCE {
    priorityQueueId
                                        PriorityOueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    discardTimer
                                        DiscardTimer
                                                                     OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize.
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
    macdPDU-Size-Index
                                        MACdPDU-Size-Indexlist,
    rLC-Mode
                                        RLC-Mode.
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityOueue-InfoItem-ExtIEs} }
                                                                                                                          OPTIONAL,
PriorityQueue-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
      ID id-MaximumMACdPDU-SizeExtended
                                                                                                                      PRESENCE optional } |
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                 MAC-PDU-SizeExtended
      ID id-DL-RLC-PDU-Size-Format
                                            CRITICALITY ignore
                                                                     EXTENSION
                                                                                 DL-RLC-PDU-Size-Format
                                                                                                                          PRESENCE optional } |
                                                                CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate-Enforcement-Indicator
     ID id-UE-AggregateMaximumBitRate-Enforcement-Indicator
    PRESENCE optional },
    . . .
PriorityOueue-InfoList-to-Modify ::= SEOUENCE (SIZE (1..maxNrOfPriorityOueues)) OF ModifyPriorityOueue
PriorityQueue-InfoItem-to-Add ::= SEQUENCE {
    priorityOueueId
                                        PriorityOueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
                                        T1.
    discardTimer
                                        DiscardTimer
                                                                                                      OPTIONAL
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                      OPTIONAL.
    macdPDU-Size-Index
                                        MACdPDU-Size-Indexlist,
    rLC-Mode
                                        RLC-Mode,
                                        ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Add-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                                                                          PRESENCE optional |
                                                                     EXTENSION
                                                                                 MAC-PDU-SizeExtended
     ID id-DL-RLC-PDU-Size-Format
                                                CRITICALITY ignore
                                                                                                                     PRESENCE optional }.
                                                                         EXTENSION DL-RLC-PDU-Size-Format
PriorityQueue-InfoItem-to-Modify ::= SEQUENCE {
    priorityOueueId
                                        PriorityOueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                                                     OPTIONAL,
                                                                                                                     OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                     OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize
                                                                                                                     OPTIONAL,
```

```
MAChsGuaranteedBitRate
    mAChsGuaranteedBitRate
                                                                                                                     OPTIONAL,
    macdPDU-Size-Index-to-Modify
                                        MACdPDU-Size-Indexlist-to-Modify
                                                                                                                     OPTIONAL.
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Modify-ExtIEs} } }
                                                                                                                         OPTIONAL.
PriorityQueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                    EXTENSION MAC-PDU-SizeExtended
                                                                                                                     PRESENCE optional } |
     ID id-DL-RLC-PDU-Size-Format
                                            CRITICALITY ignore
                                                                    EXTENSION DL-RLC-PDU-Size-Format
                                                                                                                     PRESENCE optional },
    . . .
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityOueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
    priorityOueueId
                                        PriorityOueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
        OPTIONAL,
    discardTimer
                                        DiscardTimer
        OPTIONAL.
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
       OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs} }
    OPTIONAL,
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-RSCP ::= INTEGER (0..91)
-- Mapping of non-negative values according to TS 25.123 [23]
PrimarvCCPCH-RSCP-Delta ::= INTEGER (-5..-1,...)
-- Mapping of negative values according to TS 25.123 [23]
PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0chip, 1 = 3chips
PRXdes-base ::= INTEGER (-112..-50)
-- Unit: dBm, step size 1
SCH-TimeSlot ::= INTEGER (0..6)
PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%
-- 0 is not applicable for E-DPCH
PUSCH-ID ::= INTEGER (0..255)
UE-Selected-MBMS-Service-Information ::= CHOICE {
```

```
selected-MBMS-Service
                                  Selected-MBMS-Service,
Selected-MBMS-Service ::= SEQUENCE {
   selected-MBMS-Service-List
                                          Selected-MBMS-Service-List,
                                          ProtocolExtensionContainer { { Selected-MBMS-Service-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
Selected-MBMS-Service-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Selected-MBMS-Service-List ::= SEOUENCE (SIZE (1.. maxMBMSServiceSelect)) OF Selected-MBMS-Service-Item
Selected-MBMS-Service-Item ::= SEQUENCE {
   selected-MBMS-Service-TimeSlot-Information-LCR
                                                         Selected-MBMS-Service-TimeSlot-Information-LCR
                                                                                                                   OPTIONAL,
   mBMS-Service-TDM-Information
                                          MBMS-Service-TDM-Information
                                                                             OPTIONAL,
                                          ProtocolExtensionContainer { { Selected-MBMS-Service-Item-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
Selected-MBMS-Service-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Selected-MBMS-Service-TimeSlot-Information-LCR ::= SEQUENCE (SIZE (1..7)) OF TimeSlotLCR
MBMS-Service-TDM-Information ::= SEQUENCE {
   transmission-Time-Interval
                                      ENUMERATED {v10, v20, v40, v80,...},
   tDM-Rep
                         INTEGER (2..9),
   tDM-Offset
                        INTEGER (0..8),
   tDM-Length
                        INTEGER (1..8),
   iE-Extensions
                                          OPTIONAL,
MBMS-Service-TDM-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSet-ID ::= INTEGER (0..255)
Paging-MACFlow-Specific-InformationLCR ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MAC-Flow-Specific-Information-ItemLCR
Paging-MAC-Flow-Specific-Information-ItemLCR ::= SEQUENCE {
   paging-MACFlow-Id
                                                  Paging-MACFlow-ID,
   hSDPA-associated-PICH-InfoLCR
                                                  HSDPA-Associated-PICH-InformationLCR
                                                                                            OPTIONAL,
   bindingID
                                                  BindingID
                                                                                            OPTIONAL,
    transportLayerAddress
                                                  TransportLayerAddress
                                                                                            OPTIONAL,
    tnl-qos
                                                  Tnl0os
                                                                                            OPTIONAL,
```

```
ToAWS
    toAWS
                                                                                               OPTIONAL,
    toAWE
                                                   TOAWE
                                                                                               OPTIONAL,
    paging-MACFlow-PriorityQueue-InformationLCR
                                                   Paging-MACFlow-PriorityOueue-Information
                                                                                               OPTIONAL.
    transportBearerRequestIndicator
                                                   TransportBearerRequestIndicator
                                                                                               OPTIONAL,
    iE-Extensions
                                                   ProtocolExtensionContainer { { Paging-MAC-Flow-Specific-Information-ItemLCR-ExtIEs } }
    OPTIONAL,
Paging-MAC-Flow-Specific-Information-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Paging-MACFlows-to-DeleteLCR ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MACFlows-to-DeleteLCR-Item
Paging-MACFlows-to-DeleteLCR-Item ::= SEQUENCE {
                                                   Paging-MACFlow-ID,
    paging-MACFlow-ID
    iE-Extensions
                                                   ProtocolExtensionContainer { { Paging-MACFlows-to-DeleteLCR-Item-ExtIEs} }
       OPTIONAL,
Paging-MACFlows-to-DeleteLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Process-Memory-Size ::= ENUMERATED {
                                       hms800, hms1600, hms2400, hms3200, hms4000,
                                       hms4800, hms5600, hms6400, hms7200, hms8000,
                                       hms8800, hms9600, hms10400, hms11200, hms12000,
                                       hms12800, hms13600, hms14400, hms15200, hms16000,
                                       hms17600, hms19200, hms20800, hms22400, hms24000,
                                       hms25600, hms27200, hms28800, hms30400, hms32000,
                                       hms36000, hms40000, hms44000, hms48000, hms52000,
                                       hms56000, hms60000, hms64000, hms68000, hms72000,
                                       hms76000, hms80000, hms88000, hms96000, hms104000,
                                       hms112000, hms120000, hms128000, hms136000, hms144000,
                                       hms152000, hms160000, hms176000, hms192000, hms208000,
                                       hms224000, hms240000, hms256000, hms272000, hms288000,
                                       hms304000,...}
-- O
OE-Selector ::= ENUMERATED {
    selected.
    non-selected
-- -----
```

```
RACH-Measurement-Result ::= ENUMERATED {
   cpich-EcNo,
   cpich-RSCP,
   pathloss,
RACH-SlotFormat ::= ENUMERATED {
   v1,
   v2,
   v3,
RACH-SubChannelNumbers ::= BIT STRING
                                     subCh11(0),
                                    subCh10(1),
                                    subCh9(2),
                                    subCh8(3),
                                    subCh7(4),
                                    subCh6(5),
                                    subCh5(6),
                                    subCh4(7),
                                     subCh3(8),
                                    subCh2(9),
                                    subCh1(10),
                                     subCh0(11)
                                     } (SIZE (12))
RL-Specific-DCH-Info ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF RL-Specific-DCH-Info-Item
RL-Specific-DCH-Info-Item ::= SEQUENCE {
   dCH-id
                         DCH-ID,
   bindingID
                         BindingID
                                                                                        OPTIONAL,
   transportlayeraddress TransportLayerAddress
                                                                                        OPTIONAL,
   iE-Extensions
                          ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs} }
                                                                                        OPTIONAL,
RL-Specific-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     PRESENCE optional
    }, -- FDD only
    . . .
RL-Specific-E-DCH-Info ::= SEQUENCE {
   rL-Specific-E-DCH-Information
                                    RL-Specific-E-DCH-Information,
   e-AGCH-PowerOffset
                                    E-AGCH-PowerOffset
                                                                              OPTIONAL,
   e-RGCH-PowerOffset
                                    E-RGCH-PowerOffset
                                                                             OPTIONAL,
   e-HICH-PowerOffset
                                    E-HICH-PowerOffset
                                                                             OPTIONAL,
   iE-Extensions
                         ProtocolExtensionContainer { { RL-Specific-E-DCH-Info-Item-ExtIEs} } OPTIONAL,
    . . .
```

```
RL-Specific-E-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Specific-E-DCH-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF RL-Specific-E-DCH-Information-Item
RL-Specific-E-DCH-Information-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                           E-DCH-MACdFlow-ID,
    bindingID
                           BindingID
                                                                        OPTIONAL,
    transportlayeraddress TransportLayerAddress
                                                                        OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-E-DCH-Information-Item-ExtIEs} } OPTIONAL,
RL-Specific-E-DCH-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s
Reference-ReceivedTotalWideBandPower ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in TS 25.133 [22]
Reference-ReceivedTotalWideBandPowerReporting::= ENUMERATED {
    reference-ReceivedTotalWideBandPower-Requested
Reference-ReceivedTotalWideBandPowerSupportIndicator::= ENUMERATED {
    indication-of-Reference-ReceivedTotalWideBandPower-supported
ReferenceClockAvailability ::= ENUMERATED {
    available,
    notAvailable
ReferenceSFNoffset ::= INTEGER (0..255)
Reference-E-TFCI-Information ::= SEQUENCE (SIZE (1..maxNrOfRefETFCIs)) OF Reference-E-TFCI-Information-Item
Reference-E-TFCI-Information-Item ::= SEQUENCE {
    reference-E-TFCI
                                   E-TFCI,
    -- The following IE shall be ignored if id-Ext-Reference-E-TFCI-PO is present in Reference-E-TFCI-Information-Item-ExtIEs
    reference-E-TFCI-PO
                                   Reference-E-TFCI-PO,
                                   ProtocolExtensionContainer { { Reference-E-TFCI-Information-Item-ExtIEs} }
   iE-Extensions
                                                                                                                         OPTIONAL,
Reference-E-TFCI-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
-- The following IE shall be present if the ref E-TFCI power offset to be signalled exceeds maxNrOfRefETFCI-PO-QUANTSTEPs
   { ID id-Ext-Reference-E-TFCI-PO
                                   CRITICALITY reject
                                                         EXTENSION Ext-Reference-E-TFCI-PO
                                                                                                           PRESENCE optional },
   . . .
Reference-E-TFCI-PO ::= INTEGER (0.. maxNrOfRefETFCI-PO-QUANTSTEPs)
RepetitionLength ::= INTEGER (1..63)
RepetitionPeriod ::= ENUMERATED {
   v1,
   v2,
   v4.
   v8.
   v16,
   v32,
   v64,
RepetitionNumber0 ::= INTEGER (0..255)
RepetitionNumber1 ::= INTEGER (1..256)
RefTFCNumber ::= INTEGER (0..3)
ReportCharacteristics ::= CHOICE {
   onDemand
                     NULL,
   periodic
                     ReportCharacteristicsType-ReportPeriodicity,
   event-a
                     ReportCharacteristicsType-EventA,
   event-b
                     ReportCharacteristicsType-EventB,
                     ReportCharacteristicsType-EventC,
   event-c
                     ReportCharacteristicsType-EventD,
   event-d
                     ReportCharacteristicsType-EventE,
   event-e
   event-f
                     ReportCharacteristicsType-EventF,
   extension-ReportCharacteristics
                                   Extension-ReportCharacteristics
Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }}
Extension-ReportCharacteristicsIE NBAP-PROTOCOL-IES ::= {
   PRESENCE
mandatory }
ReportCharacteristicsType-EventA ::= SEQUENCE {
   measurementThreshold
                                ReportCharacteristicsType-MeasurementThreshold,
   measurementHysteresisTime
                                ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                           OPTIONAL,
                                iE-Extensions
                                                                                                           OPTIONAL,
ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
ReportCharacteristicsType-EventB ::= SEQUENCE {
   measurement.Threshold
                                  ReportCharacteristicsType-MeasurementThreshold,
   measurementHysteresisTime
                                  ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                                 OPTIONAL,
                                  ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-ExtIEs} }
   iE-Extensions
                                                                                                                 OPTIONAL,
ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventC ::= SEQUENCE {
   measurementIncreaseThreshold
                                  ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
   measurementChangeTime
                                  ReportCharacteristicsType-ScaledMeasurementChangeTime,
                                  iE-Extensions
                                                                                                                 OPTIONAL,
   . . .
ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventD ::= SEQUENCE {
   measurementDecreaseThreshold
                                  ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
   measurementChangeTime
                                  ReportCharacteristicsType-ScaledMeasurementChangeTime,
   iE-Extensions
                                  ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-ExtIEs} } 
                                                                                                                 OPTIONAL,
ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventE ::= SEQUENCE {
   measurementThreshold1
                                  ReportCharacteristicsType-MeasurementThreshold,
   measurementThreshold2
                                  ReportCharacteristicsType-MeasurementThreshold
                                                                                          OPTIONAL,
   measurementHysteresisTime
                                  ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                          OPTIONAL,
   reportPeriodicity
                                  ReportCharacteristicsType-ReportPeriodicity
                                                                                          OPTIONAL,
                                  iE-Extensions
                                                                                                                 OPTIONAL,
ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventF ::= SEQUENCE {
   measurementThreshold1
                                  ReportCharacteristicsType-MeasurementThreshold,
   measurementThreshold2
                                  ReportCharacteristicsType-MeasurementThreshold
                                                                                          OPTIONAL,
                                  ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                          OPTIONAL,
   measurementHysteresisTime
   reportPeriodicity
                                  ReportCharacteristicsType-ReportPeriodicity
                                                                                          OPTIONAL,
```

```
ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-OnModification ::= SEQUENCE
    measurementThreshold
                                    ReportCharacteristicsType-MeasurementThreshold,
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-OnModification-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
        . . .
ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    received-total-wide-band-power
                                                            Received-total-wide-band-power-Value-IncrDecrThres,
    transmitted-carrier-power
                                    Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles
                                            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP
                                    UL-TimeslotISCP-Value-IncrDecrThres,
    sir
                                SIR-Value-IncrDecrThres.
                                SIR-Error-Value-IncrDecrThres.
    sir-error
    transmitted-code-power
                                    Transmitted-Code-Power-Value-IncrDecrThres,
                                    RSCP-Value-IncrDecrThres,
    round-trip-time
                                    Round-Trip-Time-IncrDecrThres,
    notUsed-1-acknowledged-PCPCH-access-preambles
                                                        NULL,
    notUsed-2-detected-PCPCH-access-preambles
                                                        NULL,
    extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold
                                                                                    Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThreshold
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::=
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission
                                                                            CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory}
                                                        CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
 ID id-Transmitted-Carrier-Power-For-CellPortion
                                                                                                                        PRESENCE mandatory } |
{ ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value-IncrDecrThres
    PRESENCE mandatory } |
 ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion
                                                                                                                    CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                    PRESENCE mandatory } |
 ID id-UpPTSInterferenceValue
                                    CRITICALITY reject TYPE
                                                                UpPTSInterferenceValue
                                                                                                                        PRESENCE mandatory }
 ID id-Received-Scheduled-EDCH-Power-Share
                                                CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                                        PRESENCE mandatory
  ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                                        PRESENCE mandatory
 ID id-EDCH-RACH-Report-IncrDecrThres
                                                            CRITICALITY reject TYPE EDCH-RACH-Report-IncrDecrThres
                                                                                                                        PRESENCE mandatory }
    -- FDD only
 ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortion
                                                                                                                    CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                    PRESENCE mandatory } |
```

```
{ ID id-ULTimeslotISCPValue-For-CellPortion
                                                CRITICALITY reject TYPE
                                                                            UL-TimeslotISCP-Value-IncrDecrThres
    PRESENCE mandatory } |
{ ID id-UpPTSInterferenceValue-For-CellPortion
                                                    CRITICALITY reject TYPE
                                                                                 UpPTSInterferenceValue
    PRESENCE mandatory }
EDCH-RACH-Report-IncrDecrThres ::= SEQUENCE {
    denied-EDCH-RACH-resources
                                    Denied-EDCH-RACH-Resources-Value,
    iE-Extensions
                        ProtocolExtensionContainer { { EDCH-RACH-Report-IncrDecrThres-ExtIEs } } OPTIONAL,
        . . .
EDCH-RACH-Report-IncrDecrThres-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Granted-EDCH-RACH-Resources-Value ::= INTEGER(0..240,...)
-- According to mapping in TS 25.302 [25].
Denied-EDCH-RACH-Resources-Value ::= INTEGER(0..240,...)
-- According to mapping in TS 25.302 [25].
ReportCharacteristicsType-MeasurementThreshold ::= CHOICE
    received-total-wide-band-power
                                                            Received-total-wide-band-power-Value,
    transmitted-carrier-power
                                    Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles
                                            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP
                                    UL-TimeslotISCP-Value,
    sir
                                SIR-Value,
    sir-error
                                SIR-Error-Value,
                                    Transmitted-Code-Power-Value,
    transmitted-code-power
                                    RSCP-Value,
                                    Rx-Timing-Deviation-Value,
    rx-timing-deviation
    round-trip-time
                                    Round-Trip-Time-Value,
    notUsed-1-acknowledged-PCPCH-access-preambles
                                                        NULL,
    notUsed-2-detected-PCPCH-access-preambles
                                                        NULL,
    extension-ReportCharacteristicsType-MeasurementThreshold
                                                                     Extension-ReportCharacteristicsType-MeasurementThreshold
Extension-ReportCharacteristicsType-MeasurementThreshold
                                                             ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementThresholdIE }}
Extension-ReportCharacteristicsType-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementThresholdInformation
                                                        CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation
                                                                                                                                         PRESENCE
mandatory }|
    { ID id-SFNSFNMeasurementThresholdInformation
                                                         CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation
                                                                                                                                         PRESENCE
mandatory } |
    { ID id-Rx-Timing-Deviation-Value-LCR
                                                        CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                                                         PRESENCE
mandatory } |
    { ID id-HS-SICH-Reception-Ouality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Ouality-Measurement-Value
                                                                                                                                 PRESENCE mandatory |
    -- For 1.28Mcps TDD, used when the Measurement Threshold Value for HS-SICH Reception Quality are less than or equal to 20
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission CRITICALITY reject
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory}
```

```
{ ID id-HS-DSCHRequiredPowerValue
                                             CRITICALITY reject TYPE HS-DSCHRequiredPowerValue
                                                                                                              PRESENCE
mandatory} |
   PRESENCE
mandatory }|
   { ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value
                                                                                                        PRESENCE mandatory
} |
   { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion
                                                                                                   CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                       PRESENCE mandatory }
   { ID id-UpPTSInterferenceValue
                                             CRITICALITY reject TYPE UppTSInterferenceValue
                                                                                                              PRESENCE
mandatory }|
   { ID id-DLTransmissionBranchLoadValue
                                             CRITICALITY reject TYPE DLTransmissionBranchLoadValue
   PRESENCE mandatory } |
   PRESENCE mandatory }
   { ID id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue
                                                       CRITICALITY reject TYPE E-DCH-Non-serving-Relative-Grant-Down-Commands
      PRESENCE mandatory }
   { ID id-Rx-Timing-Deviation-Value-768
                                            CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768
                                                                                                              PRESENCE
mandatory }|
   PRESENCE
mandatory }|
   { ID id-Extended-Round-Trip-Time-Value
                                                CRITICALITY reject TYPE Extended-Round-Trip-Time-Value
                                                                                                              PRESENCE
mandatory } |
   { ID id-Received-Scheduled-EDCH-Power-Share
                                                    CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                              PRESENCE
mandatory }|
   { ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                              PRESENCE
mandatory }|
   { ID id-Additional-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value
      PRESENCE mandatory \
   -- Applicable to 1.28Mcps TDD only, used when the Measurement Threshold Value for HS-SICH Reception Quality are more than 20, Measurement
Threshold Value = 20 + IE Value
   PRESENCE mandatory
   { ID id-EDCH-RACH-Report-ThresholdInformation
                                             CRITICALITY reject TYPE EDCH-RACH-Report-ThresholdInformation
                                                                                                              PRESENCE
mandatory } |
   -- FDD only
   { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortion
                                                                                              CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                       PRESENCE mandatory } |
   { ID id-ULTimeslotISCPValue-For-CellPortion
                                           CRITICALITY reject TYPE UL-TimeslotISCP-Value
                                                                                                              PRESENCE
mandatory } |
   PRESENCE
mandatory }
EDCH-RACH-Report-ThresholdInformation ::= SEQUENCE {
   denied-EDCH-RACH-resources
                             Denied-EDCH-RACH-Resources-Value,
                   ProtocolExtensionContainer { EDCH-RACH-Report-ThresholdInformation-ExtIEs } } OPTIONAL.
   iE-Extensions
      . . .
EDCH-RACH-Report-ThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
```

```
MeasurementChangeTime-Scaledmsec,
    msec
MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
                        MeasurementHysteresisTime-Scaledmsec,
    msec
    . . .
MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
                        ReportPeriodicity-Scaledmsec,
    min
                        ReportPeriodicity-Scaledmin,
ReportPeriodicity-Scaledmsec ::= INTEGER (1..6000,...)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportPeriodicity-Scaledmin ::= INTEGER (1..60,...)
-- Unit min, Range 1min .. 60min(hour), Step 1min
ReportPeriodicity-Scaledhour ::= INTEGER (1..24,...)
-- Unit hour, Range 1hour .. 24hours (day), Step 1hour
ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled
RL-ID ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
RLC-Mode
           ::= ENUMERATED {
    rLC-AM,
    rLC-UM,
DL-RLC-PDU-Size-Format ::= ENUMERATED {
    fixed-RLC-PDU-Size,
    flexible-RLC-PDU-Size,
```

```
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)
RNC-ID
                        ::= INTEGER (0..4095)
Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in TS 25.133 [22]
RSCP-Value ::= INTEGER (0..127)
-- According to mapping in TS 25.123 [23]
RSCP-Value-IncrDecrThres ::= INTEGER (0..126)
Received-total-wide-band-power-For-CellPortion-Value ::= SEOUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Received-total-wide-band-power-For-
CellPortion-Value-Item
Received-total-wide-band-power-For-CellPortion-Value-Item ::= SEQUENCE{
    cellPortionID
                                            CellPortionID,
    received-total-wide-band-power-value
                                            Received-total-wide-band-power-Value,
                                            ProtocolExtensionContainer { Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Received-total-wide-band-power-For-CellPortion-ValueLCR ::= SEOUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF Received-total-wide-band-power-
For-CellPortion-ValueLCR-Item
Received-total-wide-band-power-For-CellPortion-ValueLCR-Item ::= SEQUENCE{
                                                CellPortionLCRID,
    cellPortionLCRID
    received-total-wide-band-power-value
                                            Received-total-wide-band-power-Value,
                                            ProtocolExtensionContainer { { Received-total-wide-band-power-For-CellPortion-ValueLCR-Item-ExtIEs} }
    iE-Extensions
       OPTIONAL,
    . . .
Received-total-wide-band-power-For-CellPortion-ValueLCR-Item-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
Received-total-wide-band-power-Value ::= INTEGER(0..621)
-- According to mapping in TS 25.133 [22]/TS 25.123 [23]
Received-total-wide-band-power-Value-IncrDecrThres ::= INTEGER (0..620)
Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Received-Scheduled-EDCH-Power-
Share-For-CellPortion-Value-Item
Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item ::= SEQUENCE{
    cellPortionID
                                            CellPortionID,
    received-Scheduled-power-share-value
                                            RSEPS-Value,
    received-total-wide-band-power-value
                                            Received-total-wide-band-power-Value
                                                                                         OPTIONAL,
```

```
ProtocolExtensionContainer { { Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item-ExtIEs} }
   iE-Extensions
       OPTIONAL,
Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Received-Scheduled-EDCH-Power-Share-Value ::= SEQUENCE{
   received-Scheduled-power-share-value
                                          RSEPS-Value,
   received-total-wide-band-power-value
                                          Received-total-wide-band-power-Value
                                                                                     OPTIONAL,
    . . .
RSEPS-Value-IncrDecrThres ::= INTEGER (0..151)
RSEPS-Value ::= INTEGER (0..151)
-- According to mapping in TS 25.133 [22]
RequestedDataValueInformation ::= CHOICE {
    informationAvailable
                               InformationAvailable,
    informationnotAvailable
                               InformationnotAvailable
InformationAvailable::= SEQUENCE {
    requesteddataValue
                           RequestedDataValue,
   ie-Extensions
                           ProtocolExtensionContainer { { InformationAvailableItem-ExtIEs} }
                                                                                                                 OPTIONAL,
InformationAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
InformationnotAvailable ::= NULL
RequestedDataValue ::= SEQUENCE {
   dgps-corrections
                           DGPSCorrections
                                                                                         OPTIONAL,
   gps-navandrecovery
                           GPS-NavigationModel-and-TimeRecovery
                                                                                         OPTIONAL,
   qps-ionos-model
                           GPS-Ionospheric-Model
                                                                                         OPTIONAL,
   qps-utc-model
                           GPS-UTC-Model
                                                                                         OPTIONAL,
   qps-almanac
                           GPS-Almanac
                                                                                         OPTIONAL,
   gps-rt-integrity
                           GPS-RealTime-Integrity
                                                                                         OPTIONAL,
   qpsrxpos
                           GPS-RX-POS
                                                                                         OPTIONAL,
   iE-Extensions
                           OPTIONAL,
```

```
RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-GANSS-Common-Data CRITICALITY ignore
                                                           EXTENSION GANSS-Common-Data
     ID id-GANSS-Generic-Data
                                     CRITICALITY ignore
                                                           EXTENSION GANSS-Generic-Data
   PRESENCE optional },
Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
-- According to mapping in TS 25.123 [23]
Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
-- According to mapping in TS 25.123 [23]
Rx-Timing-Deviation-Value-768 ::= INTEGER (0..65535)
-- According to mapping in TS 25.123 [23]
Rx-Timing-Deviation-Value-384-ext ::= INTEGER (0..32767)
-- According to mapping in TS 25.123 [23]
RefBeta ::= INTEGER (-15..16)
RTWP-ReportingIndicator ::= ENUMERATED {
   rTWP-reporting-required}
RTWP-CellPortion-ReportingIndicator ::= ENUMERATED {
    rTWP-CellPortion-reporting-required}
-- -----
-- ------
                    ::= INTEGER(1..256)
AdjustmentPeriod
-- Unit Frame
E-DPCCH-Power-Boosting-Capability ::= ENUMERATED
    e-DPCCH-Power-Boosting-capable,
    e-DPCCH-Power-Boosting-non-capable
SAT-ID ::= INTEGER (0..63)
SAT-Info-Almanac ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-Almanac-Item
SAT-Info-Almanac-Item ::= SEQUENCE {
   data-id DATA-ID,
                  SAT-ID,
   sat-id
                  BIT STRING (SIZE (16)),
   qps-e-alm
   qps-toa-alm
                     BIT STRING (SIZE (8)),
   gps-delta-I-alm BIT STRING (SIZE (16)),
   omegadot-alm
                     BIT STRING (SIZE (16)),
    svhealth-alm
                     BIT STRING (SIZE (8)),
   gps-a-sqrt-alm BIT STRING (SIZE (24)),
```

PRESENCE optional } |

```
omegazero-alm
                    BIT STRING (SIZE (24)),
   m-zero-alm
                    BIT STRING (SIZE (24)),
   aps-omega-alm
                    BIT STRING (SIZE (24)),
   qps-af-zero-alm BIT STRING (SIZE (11)),
   qps-af-one-alm
                    BIT STRING (SIZE (11)),
   ie-Extensions
                    ProtocolExtensionContainer { { SAT-Info-Almanac-Item-ExtIEs} }
                                                                                   OPTIONAL,
  -- This GPS-Almanac-Information is for the 1<sup>st</sup> 16 satellites
SAT-Info-Almanac-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SAT-Info-Almanac-ExtList
                        ::= SEOUENCE (SIZE (1..maxNrOfSatAlmanac-maxNoSat)) OF SAT-Info-Almanac-ExtItem
SAT-Info-Almanac-ExtItem ::= SEQUENCE {
   data-id DATA-ID,
   sat-id
                    SAT-ID,
   qps-e-alm
                    BIT STRING (SIZE (16)),
                BIT STRING (SIZE (8)),
   qps-toa-alm
   gps-delta-I-alm BIT STRING (SIZE (16)),
   omegadot-alm
                    BIT STRING (SIZE (16)),
   svhealth-alm
                    BIT STRING (SIZE (8)),
   gps-a-sqrt-alm BIT STRING (SIZE (24)),
   omegazero-alm
                    BIT STRING (SIZE (24)),
   m-zero-alm
                    BIT STRING (SIZE (24)),
   qps-omega-alm
                    BIT STRING (SIZE (24)),
   gps-af-zero-alm BIT STRING (SIZE (11)),
   qps-af-one-alm
                    BIT STRING (SIZE (11)),
                    ie-Extensions
                                                                                   OPTIONAL,
  -- Includes the GPS-Almanac-Information for 17^{th} through 32^{nd} satellites.
SAT-Info-Almanac-ExtItemIEs NBAP-PROTOCOL-EXTENSION ::= {
SAT-Info-DGPSCorrections ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-DGPSCorrections-Item
SAT-Info-DGPSCorrections-Item ::= SEQUENCE {
   sat-id
                                       SAT-ID.
   iode-dgps
                                       BIT STRING (SIZE (8)),
   udre
                                       UDRE,
                                       PRC,
                                       Range-Correction-Rate,
   range-correction-rate
   ie-Extensions
                                       SAT-Info-DGPSCorrections-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-DGNSS-ValidityPeriod CRITICALITY ignore EXTENSION DGNSS-ValidityPeriod
                                                                               PRESENCE
                                                                                                         optional },
   . . .
```

```
SATInfo-RealTime-Integrity ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-RealTime-Integrity-Item
SAT-Info-RealTime-Integrity-Item ::= SEQUENCE {
 bad-sat-id
                  SAT-ID,
 ie-Extensions
                  ProtocolExtensionContainer { { SAT-Info-RealTime-Integrity-Item-ExtIEs} }
                                                                                                                    OPTIONAL,
SAT-Info-RealTime-Integrity-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                               ::= INTEGER (0..100)
ScaledAdjustmentRatio
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
MaxAdjustmentStep
                          ::= INTEGER(1..10)
-- Unit Slot
SchedulingInformation
                               ::= ENUMERATED {
    included,
    not-included
SecondaryServingCells ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF SecondaryServingCellsItem
SecondaryServingCellsItem ::= SEQUENCE {
    secondaryC-ID
    numSecondaryHS-SCCH-Codes
                                   NumHS-SCCH-Codes
                                                            OPTIONAL,
    sixtyfourQAM-UsageAllowedIndicator
                                           SixtyfourQAM-UsageAllowedIndicator
                                                                                    OPTIONAL,
    iE-Extensions
                                                    ProtocolExtensionContainer { { SecondaryServingCellsItem-ExtIEs} }
    OPTIONAL,
    . . .
SecondaryServingCellsItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-MIMO-ActivationIndicator
                                           CRITICALITY ignore
                                                                    EXTENSION MIMO-ActivationIndicator PRESENCE optional}
{ID id-EDCH-Indicator
                               CRITICALITY ignore
                                                                            PRESENCE optional },
                                                       EXTENSION NULL
Secondary-UL-Frequency-Activation-State ::= ENUMERATED {
   activated,
    deactivated,
        . . .
SchedulingPriorityIndicator
                                       ::= INTEGER (0..15)
                                                               -- lowest (0), highest (15)
SID ::= INTEGER (0..maxNrOfMACdPDUIndexes-1)
ScramblingCodeNumber ::= INTEGER (0..15)
```

```
Secondary-CPICH-Information-Change ::= CHOICE {
    new-secondary-CPICH
                                        CommonPhysicalChannelID,
    secondary-CPICH-shall-not-be-used NULL,
SecondaryCCPCH-SlotFormat ::= INTEGER(0..17,...)
Secondary-CCPCH-SlotFormat-Extended ::= INTEGER(18..23,...)
Segment-Type ::= ENUMERATED {
        first-segment,
        first-segment-short,
        subsequent-segment,
       last-segment,
       last-segment-short,
        complete-SIB,
        complete-SIB-short,
Serving-E-DCH-RL-ID ::= CHOICE {
    serving-E-DCH-RL-in-this-NodeB
                                                Serving-E-DCH-RL-in-this-NodeB,
    serving-E-DCH-RL-not-in-this-NodeB
                                                NULL,
Serving-E-DCH-RL-in-this-NodeB ::= SEQUENCE {
    rL-ID
                                                RL-ID,
                                                ProtocolExtensionContainer { { Serving-E-DCH-RL-in-this-NodeB-ExtIEs} } 
    iE-Extensions
                                                                                                                                         OPTIONAL,
Serving-E-DCH-RL-in-this-NodeB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SetsOfHS-SCCH-Codes ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH)) OF SetsOfHS-SCCH-CodesItem
SetsOfHS-SCCH-CodesItem ::= SEQUENCE {
    hS-SCCH-PreconfiguredCodes
                                    HS-SCCH-PreconfiguredCodes,
    sixtyfourQAM-DL-UsageIndicator
                                        SixtyfourQAM-DL-UsageIndicator
                                                                             OPTIONAL,
    hSDSCH-TBSizeTableIndicator
                                    HSDSCH-TBSizeTableIndicator
                                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { SetsOfHS-SCCH-CodesItem-ExtIEs} } OPTIONAL,
    iE-Extensions
SetsOfHS-SCCH-CodesItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-MIMO-N-M-Ratio
                                        CRITICALITY ignore
                                                                 EXTENSION MIMO-N-M-Ratio
                                                                                                   PRESENCE optional },
Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency::= CHOICE {
```

```
Additional-EDCH-Setup-Info,
    configurationChange
                            Additional-EDCH-Cell-Information-ConfigurationChange-List,
    removal
                            Additional-EDCH-Cell-Information-Removal-List.
SFN ::= INTEGER (0..4095)
SFNSFN-FDD ::= INTEGER (0..614399)
SFNSFN-TDD ::= INTEGER (0..40961)
SFNSFN-TDD768 ::= INTEGER (0..81923)
SFNSFNChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
SFNSFNDriftRate ::= INTEGER (-100..100)
-- Unit chip/s, Step 1/256 chip/s, Range -100/256..+100/256 chip/s
SFNSFNDriftRateQuality ::= INTEGER (0..100)
-- Unit chip/s, Step 1/256 chip/s, Range 0..100/256 chip/s
SFNSFNMeasurementThresholdInformation::= SEOUENCE {
    sFNSFNChangeLimit
                                         SFNSFNChangeLimit
                                                                              OPTIONAL,
    predictedSFNSFNDeviationLimit
                                         PredictedSFNSFNDeviationLimit
                                                                              OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs} }
                                                                                                                           OPTIONAL,
SFNSFNMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFNSFNMeasurementValueInformation ::= SEQUENCE {
    \verb|successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation| \\
                                                                                          SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF
        SEOUENCE {
            uC-Id
                                         UC-Id,
            sFNSFNValue
                                         SFNSFNValue,
            sFNSFNQuality
                                         SFNSFNQuality
                                                                      OPTIONAL,
            sFNSFNDriftRate
                                         SFNSFNDriftRate,
            sFNSFNDriftRateQuality
                                         SFNSFNDriftRateQuality
                                                                      OPTIONAL,
            sFNSFNTimeStampInformation SFNSFNTimeStampInformation,
            iE-Extensions
                                 ProtocolExtensionContainer { { SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs } }
                OPTIONAL,
                                                                                          SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
    unsuccessfull \verb+NeighbouringCellSFNSFNObservedTimeDifference \texttt{MeasurementInformation}
        SEQUENCE {
            nC-Td
                                 ProtocolExtensionContainer { { UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
            iE-Extensions
ExtIEs } }
                OPTIONAL,
                . . .
```

```
},
    iE-Extensions
                        ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs} }
                                                                                                                          OPTIONAL,
SFNSFNMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFNSFNQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec
SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
SIR-Error-Value ::= INTEGER (0..125)
-- According to mapping in TS 25.133 [22]
SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD
                            SFN.
    sFNSFNTimeStamp-TDD
                            SFNSFNTimeStamp-TDD,
    . . . }
SFNSFNTimeStamp-TDD::= SEQUENCE {
    sFN
                        SFN,
    timeSlot
                        TimeSlot,
                                    ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} }
    iE-Extensions
                                                                                                                     OPTIONAL,
SFNSFNTimeStamp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFNSFNValue ::= CHOICE {
```

```
sFNSFN-FDD
                    SFNSFN-FDD,
    sFNSFN-TDD
                    SFNSFN-TDD,
                                        --- 1.28Mcps and 3.84Mcps TDD only
    sFNSFN-TDD768
                    SFNSFN-TDD768
Single-Stream-MIMO-ActivationIndicator ::= NULL
Single-Stream-MIMO-Capability ::= ENUMERATED {
    single-stream-mimo-capable,
    single-stream-mimo-non-capable
Single-Stream-MIMO-Mode-Indicator ::= ENUMERATED {
    activate,
    deactivate
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
SIR-Value ::= INTEGER (0..63)
-- According to mapping in TS 25.133 [22]/TS 25.123 [23]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SignallingBearerRequestIndicator::= ENUMERATED {bearerRequested}
SixtyfourQAM-UsageAllowedIndicator ::= ENUMERATED {
    allowed,
    not-allowed
SixtyfourQAM-DL-UsageIndicator ::= ENUMERATED {
    sixtyfourQAM-DL-used,
    sixtyfourQAM-DL-not-used
SixtyfourQAM-DL-Capability ::= ENUMERATED {
    sixtyfourQAM-DL-supported,
    sixtyfourQAM-DL-not-supported
SixtyfourQAM-DL-MIMO-Combined-Capability ::= ENUMERATED {
    sixtyfourQAM-DL-MIMO-Combined-capable,
    sixtyfourQAM-DL-MIMO-Combined-non-capable
SignatureSequenceGroupIndex ::= INTEGER (0..19)
```

```
SixteenQAM-UL-Capability ::= ENUMERATED {
    sixteenQAM-UL-capable,
    sixteenQAM-UL-non-capable
SixteenQAM-UL-Operation-Indicator ::= ENUMERATED {
    activate,
    deactivate
SNPL-Reporting-Type ::= ENUMERATED {
    type1,
    type2
Soffset ::= INTEGER (0..9,...)
SpecialBurstScheduling ::= INTEGER (1..256) -- Number of frames between special burst transmission during DTX
Start-Of-Audit-Sequence-Indicator ::= ENUMERATED {
    start-of-audit-sequence,
    not-start-of-audit-sequence
Status-Flag ::= ENUMERATED {
    activate,
    deactivate
STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    . . .
SSDT-SupportIndicator ::= ENUMERATED {
    not-Used-sSDT-Supported,
    sSDT-not-supported
Sub-Frame-Number ::= INTEGER (0..4,...)
Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order ::= ENUMERATED {
    supported,
    not-supported
SyncCase ::= INTEGER (1..2,...)
SYNCDlCodeId ::= INTEGER (1..32,...)
```

```
SyncFrameNumber ::= INTEGER (1..10)
SynchronisationReportCharacteristics ::= SEQUENCE
    synchronisationReportCharacteristicsType
                                             SynchronisationReportCharacteristicsType,
    synchronisationReportCharactThreExc
                                             SynchronisationReportCharactThreExc
                                                                                   OPTIONAL,
       -- This IE shall be included if the synchronisationReportCharacteristicsType IE is set to 'thresholdExceeding'.
                                             ProtocolExtensionContainer { { SynchronisationReportCharacteristics-ExtIEs } } OPTIONAL,
   iE-Extensions
SynchronisationReportCharacteristics-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-SyncDLCodeIdThreInfoLCR CRITICALITY ignore EXTENSION
                                                                SyncDLCodeIdThreInfoLCR
                                                                                           PRESENCE optional },
    . . .
SynchronisationReportCharactThreExc ::=
                                         SEQUENCE (SIZE (1..maxNrOfCellSyncBursts)) OF SynchronisationReportCharactThreInfoItem -- Mandatory
for 3.84Mcps TDD only. Not Applicable to 1.28Mcps TDD.
SynchronisationReportCharactThreInfoItem ::= SEQUENCE {
    syncFrameNumber
                              SyncFrameNumber,
    iE-Extensions
                              ProtocolExtensionContainer { { SynchronisationReportCharactThreInfoItem-ExtIEs } }
SynchronisationReportCharactThreInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SynchronisationReportCharactCellSyncBurstInfoItem ::= SEQUENCE {
    cellSyncBurstCode
                                  CellSyncBurstCode,
    cellSyncBurstCodeShift
                                  CellSyncBurstCodeShift,
    cellSyncBurstTiming
                                  CellSyncBurstTiming
                                                                OPTIONAL,
    cellSyncBurstTimingThreshold
                                  CellSyncBurstTimingThreshold
                                                                OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { { SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs } }
                                                                                                                                OPTIONAL.
SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeIdThreInfoLCR ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdThreInfoList --Mandatory for 1.28Mcps TDD only. Not
Applicable to 3.84Mcps TDD.
SyncDLCodeIdThreInfoList ::= SEQUENCE {
    syncFrameNoToReceive
                                  SyncFrameNumber,
   syncDLCodeIdInfoLCR
                                  SyncDLCodeInfoListLCR,
   iE-Extensions
                                  ProtocolExtensionContainer { { SyncDLCodeIdThreInfoList-ExtIEs } }
                                                                                                          OPTIONAL.
    . . .
SyncDLCodeIdThreInfoList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
SyncDLCodeInfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfSyncDLCodesLCR)) OF SyncDLCodeInfoItemLCR
SyncDLCodeInfoItemLCR ::= SEQUENCE {
                                   SYNCDlCodeId,
    syncDLCodeId
                                   CellSyncBurstTimingLCR
    syncDLCodeIdArrivTime
                                                                      OPTIONAL,
                                   CellSyncBurstTimingThreshold
    syncDLCodeIdTimingThre
                                                                      OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { { SyncDLCodeInfoItem-LCR-ExtIEs } }
                                                                                                              OPTIONAL,
    . . .
SyncDLCodeInfoItem-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SynchronisationReportCharacteristicsType ::= ENUMERATED {
    frameRelated,
    sFNperiodRelated,
    cycleLengthRelated,
    thresholdExceeding,
    frequencyAcquisitionCompleted,
SynchronisationReportType ::= ENUMERATED {
    initialPhase,
    steadyStatePhase,
    lateEntrantCell,
    frequencyAcquisition,
Semi-PersistentScheduling-CapabilityLCR ::= ENUMERATED {
    semi-Persistent-scheduling-Capable,
    semi-Persistent-scheduling-Non-Capable
   _____
-- -----
T1 ::= ENUMERATED {v10, v20, v30, v40, v50, v60, v70, v80, v90, v100, v120, v140, v160, v200, v300, v400, ...}
T321 ::= ENUMERATED \{v100, v200, v400, v800, ...\}
T-Cell ::= ENUMERATED {
   νO,
    v1,
    v2,
    v3,
    v4,
    v5,
    v6,
    v7,
```

```
v8,
    v9
T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range Os .. 25.5s, Step 0.1s
T-PROTECT ::= ENUMERATED {v40, v60, v80, v100, v120, v200, v400, ...}
T-SYNC ::= ENUMERATED \{v40, v80, v120, v160, v200, v300, v400, v500, \ldots\}
TDD-AckNack-Power-Offset ::= INTEGER (-7..8,...)
-- Unit dB, Range -7dB .. +8dB, Step 1dB
TDD-ChannelisationCode ::= ENUMERATED
    chCode1div1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3.
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6.
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
TDD-ChannelisationCodeLCR ::= SEQUENCE {
    tDD-ChannelisationCode
                                     TDD-ChannelisationCode,
    modulation
                                     Modulation, -- Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD or 7.68Mcps TDD
                                              ProtocolExtensionContainer { { TDD-ChannelisationCodeLCR-ExtIEs} }
    iE-Extensions
                                                                                                                              OPTIONAL,
```

```
TDD-ChannelisationCodeLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-ChannelisationCode768
                                      ::= ENUMERATED
    chCode1div1.
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2.
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    chCode32div1,
    chCode32div2,
    chCode32div3,
    chCode32div4,
    chCode32div5,
    chCode32div6,
    chCode32div7.
    chCode32div8,
    chCode32div9,
    chCode32div10,
    chCode32div11,
    chCode32div12,
    chCode32div13,
    chCode32div14,
    chCode32div15,
    chCode32div16,
```

```
chCode32div17,
    chCode32div18,
    chCode32div19.
    chCode32div20,
    chCode32div21,
    chCode32div22,
    chCode32div23,
    chCode32div24,
    chCode32div25,
    chCode32div26.
    chCode32div27,
    chCode32div28,
    chCode32div29,
    chCode32div30,
    chCode32div31,
    chCode32div32,
TDD-DL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem
TDD-DL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { { TDD-DL-Code-InformationItem-ExtIEs} }
                                                                                                                          OPTIONAL,
TDD-DL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-DL-Code-LCR-InformationItem
TDD-DL-Code-LCR-InformationItem ::= SEOUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
                                            TDD-DL-DPCH-TimeSlotFormat-LCR,
    tdd-DL-DPCH-TimeSlotFormat-LCR
    iE-Extensions
                                            ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs} }
                                                                                                                                  OPTIONAL,
    . . .
TDD-DL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-Code-768-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-768-InformationItem
TDD-DL-Code-768-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
   iE-Extensions
                                            ProtocolExtensionContainer { { TDD-DL-Code-768-InformationItem-ExtIEs} }
                                                                                                                                  OPTIONAL,
```

```
TDD-DL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
    qPSK
                                QPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
                                EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format
OPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
-- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format INTEGER(0..11,...)
TDD-DPCHOffset ::= CHOICE {
    initialOffset
                        INTEGER (0..255),
    noinitialOffset
                        INTEGER (0..63)
TDD-PhysicalChannelOffset ::= INTEGER (0..63)
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    . . .
TDD-TPC-UplinkStepSize-LCR ::= ENUMERATED
    step-size1,
    step-size2,
    step-size3,
    . . .
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors
                                SEQUENCE {
       gainFactor
                                    CHOICE {
           fdd
                                        SEQUENCE
                                            BetaCD,
                betaC
                betaD
                                            BetaCD,
                                    ProtocolExtensionContainer { { GainFactorFDD-ExtIEs } }
                iE-Extensions
                                                                                                 OPTIONAL,
           tdd
                                        BetaCD,
        refTFCNumber
                                    RefTFCNumber
                                                     OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } }
                                                                                                                      OPTIONAL,
```

```
computedGainFactors
                                    RefTFCNumber,
GainFactorFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SignalledGainFactors-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-UL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem
TDD-UL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
   iE-Extensions
                                            ProtocolExtensionContainer { { TDD-UL-Code-InformationItem-ExtIEs} }
                                                                                                                          OPTIONAL,
TDD-UL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-UL-Code-LCR-InformationItem
TDD-UL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    tdd-UL-DPCH-TimeSlotFormat-LCR
                                            TDD-UL-DPCH-TimeSlotFormat-LCR,
                                            ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs} }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
TDD-UL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-UL-Code-768-Information ::= SEOUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-768-InformationItem
TDD-UL-Code-768-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
                                            ProtocolExtensionContainer { { TDD-UL-Code-768-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
TDD-UL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
                                QPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    qPSK
                                EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
```

OPTIONAL,

```
QPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..69,...)
EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    . . .
TFCI-Presence ::= ENUMERATED {
    present,
    not-present
TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption
                                TFCI-SignallingMode-TFCI-SignallingOption,
    not-Used-splitType
                                NULL
                                                    OPTIONAL,
    not-Used-lengthOfTFCI2
                                NULL
                                                    OPTIONAL,
                                ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} }
    iE-Extensions
TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    not-Used-split
TGD
                    ::= INTEGER (0 | 15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
TGPRC
                    ::= INTEGER (0..511)
-- 0 = infinity
                    ::= INTEGER (1.. maxTGPS)
TGPSID
TGSN
                    ::= INTEGER (0..14)
TimeSlot ::= INTEGER (0..14)
TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
```

```
. . .
TimeSlot-InitiatedListLCR ::= SEQUENCE (SIZE (0..6)) OF TimeSlotLCR
TimeSlotLCR ::= INTEGER (0..6)
TimeslotLCR-Extension ::= ENUMERATED {
    ts7,
    . . .
-- ts7 indicates the MBSFN Special Timeslot for 1.28Mcps TDD MBSFN Dedicated Carrier.
TimeSlotMeasurementValueListLCR::= SEQUENCE (SIZE (1..6)) OF TimeSlotMeasurementValueLCR
TimeSlotMeasurementValueLCR ::= SEQUENCE {
    timeSlotLCR
                                TimeSlotLCR,
    commonMeasurementValue
                                CommonMeasurementValue,
                                ProtocolExtensionContainer { {TimeSlotMeasurementValueListLCR-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
TimeSlotMeasurementValueListLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
TimingAdjustmentValue ::= CHOICE {
    initialPhase
                       INTEGER (0..1048575,...),
    steadyStatePhase
                      INTEGER (0..255,...)
TimingAdjustmentValueLCR ::= CHOICE {
    initialPhase
                        INTEGER (0..524287,...),
    steadyStatePhase INTEGER (0..127,...)
TimingAdvanceApplied ::= ENUMERATED {
    yes,
    no
SynchronisationIndicator ::= ENUMERATED {
    timingMaintainedSynchronisation,
TnlQos ::= CHOICE {
```

```
dsField
                            DsField,
    genericTrafficCategory GenericTrafficCategory,
ToAWE ::= INTEGER (0..2559)
-- Unit ms
ToAWS ::= INTEGER (0..1279)
-- Unit ms
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        tGSN
                        TGSN,
        tGL1
                        GapLength,
        tGL2
                        GapLength
                                    OPTIONAL,
        tGD
                        TGD,
        tGPL1
                        GapDuration,
        not-to-be-used-1
                                    GapDuration OPTIONAL,
            -- This IE shall never be included in the SEQUENCE. If received it shall be ignored
        uL-DL-mode
                        UL-DL-mode,
        downlink-Compressed-Mode-Method
                                            Downlink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the UL/DL mode IE is set to "DL only" or "UL/DL"
        uplink-Compressed-Mode-Method
                                            Uplink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the UL/DL mode IE is set to "UL only" or "UL/DL"
        dL-FrameType
                            DL-FrameType,
        delta-SIR1
                            DeltaSIR,
        delta-SIR-after1
                            DeltaSIR,
        delta-SIR2
                            DeltaSIR
                                        OPTIONAL,
        delta-SIR-after2
                            DeltaSIR
                                        OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
Transmission-Gap-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
   code-change,
   nocode-change
```

```
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue ::= SEQUENCE (SIZE
(1..maxNrOfCellPortionsPerCell)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOTE-HICHTransmissionCellPortionValue-Item ::= SEOUENCE{
    cellPortionID
                                            CellPortionID,
    transmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue.
                                            ProtocolExtensionContainer { { TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-
RGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs} }
                                                            OPTIONAL,
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOTE-HICHTransmissionCellPortionValue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION
::= {
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue ::= SEQUENCE (SIZE
(1..maxNrOfCellPortionsPerCellLCR)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item ::= SEQUENCE{
                                                CellPortionLCRID,
    transmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue,
                                            ProtocolExtensionContainer { { TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-
HICHTransmissionCellPortionValue-Item-ExtIEs} }
                                                    OPTIONAL,
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue ::= INTEGER(0..100)
-- According to mapping in TS 25.133 [22] and TS 25.123 [23]
Transmitted-Carrier-Power-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Transmitted-Carrier-Power-For-CellPortion-
Value-Item
Transmitted-Carrier-Power-For-CellPortion-Value-Item ::= SEQUENCE{
    cellPortionID
                                            CellPortionID,
    transmitted-Carrier-Power-Value
                                            Transmitted-Carrier-Power-Value,
                                            ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs} }
    iE-Extensions
    OPTIONAL,
Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transmitted-Carrier-Power-For-CellPortion-ValueLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF Transmitted-Carrier-Power-For-
CellPortion-ValueLCR-Item
Transmitted-Carrier-Power-For-CellPortion-ValueLCR-Item ::= SEQUENCE{
```

```
cellPortionLCRID
                                                CellPortionLCRID.
    transmitted-Carrier-Power-Value
                                            Transmitted-Carrier-Power-Value.
    iE-Extensions
                                            ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-ValueLCR-Item-ExtIEs} }
   OPTIONAL,
Transmitted-Carrier-Power-For-CellPortion-ValueLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in TS 25.133 [22]/TS 25.123 [23]
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in TS 25.133 [22]/TS 25.123 [23]. Values 0 to 9 and 123 to 127 shall not be used.
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
TFCS ::= SEQUENCE {
    tFCSvalues
                                CHOICE {
       no-Split-in-TFCI
                                    TFCS-TFCSList,
       not-Used-split-in-TFCI
                                    NULL,
        -- This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.
                        ProtocolExtensionContainer { { TFCS-ExtIEs} }
    iE-Extensions
                                                                            OPTIONAL,
TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
   SEQUENCE {
       cTFC
                            TFCS-CTFC,
       tFC-Beta
                       TransportFormatCombination-Beta
                                                            OPTIONAL,
        -- The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD - or PCPCH channel].
                           ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
       iE-Extensions
TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
TFCS-CTFC ::= CHOICE {
    ct.fc2bit
                                        INTEGER (0..3),
    ctfc4bit
                                        INTEGER (0..15),
    ctfc6bit
                                        INTEGER (0..63),
    ctfc8bit
                                        INTEGER (0..255),
    ctfc12bit
                                        INTEGER (0..4095),
    ctfc16bit
                                        INTEGER (0..65535),
    ctfcmaxbit
                                        INTEGER (0..maxCTFC)
Transport-Block-Size-Index ::= INTEGER(1..maxNrOfHS-DSCH-TBSs)
Transport-Block-Size-Index-for-Enhanced-PCH ::= INTEGER(1..32)
-- Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in appendix A of 3GPP TS 25.321 [32]
Transport-Block-Size-List ::= SEQUENCE (SIZE (1..maxNrOfHS-DSCHTBSsE-PCH)) OF
    SEQUENCE {
        transport-Block-Size-Index-for-Enhanced-PCH
                                                            Transport-Block-Size-Index-for-Enhanced-PCH,
                                    ProtocolExtensionContainer { { Transport-Block-Size-List-ExtIEs} }
       iE-Extensions
                                                                                                                         OPTIONAL,
Transport-Block-Size-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransportBearerRequestIndicator ::= ENUMERATED {
    bearerRequested,
    bearerNotRequested,
    . . .
TransportBearerNotRequestedIndicator ::= ENUMERATED {
    transport-bearer-shall-not-be-established,
    transport-bearer-may-not-be-established
TransportBearerNotSetupIndicator ::= ENUMERATED {
    transport-bearer-not-setup
TransportFormatSet ::= SEQUENCE {
    dynamicParts
                           TransportFormatSet-DynamicPartList,
    semi-staticPart
                            TransportFormatSet-Semi-staticPart,
                           ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} }
    iE-Extensions
                                                                                                 OPTIONAL,
TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
```

```
SEQUENCE {
       nrOfTransportBlocks
                                  TransportFormatSet-NrOfTransportBlocks,
       transportBlockSize
                                  TransportFormatSet-TransportBlockSize
                                                                             OPTIONAL.
       -- This IE shall be present if the Number of Transport Blocks IE is set to a value greater than 0
                                  TransportFormatSet-ModeDP,
                                  iE-Extensions
                                                                                                                    OPTIONAL,
TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
   transmissionTimeIntervalInformation
                                          TransmissionTimeIntervalInformation
    -- This IE shall be present if the Transmission Time Interval IE in the Semi-static Transport Format Information IE is set to 'dynamic'
                                          ProtocolExtensionContainer { {TDD-TransportFormatSet-ModeDP-ExtIEs} } OPTIONAL,
   iE-Extensions
TDD-TransportFormatSet-ModeDP-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
   SEQUENCE ·
       transmissionTimeInterval
                                      TransportFormatSet-TransmissionTimeIntervalDynamic,
   iE-Extensions
                                      ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs} }
                                                                                                                           OPTIONAL,
TransmissionTimeIntervalInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTimeInterval
                                      TransportFormatSet-TransmissionTimeIntervalSemiStatic,
    channelCoding
                                  TransportFormatSet-ChannelCodingType,
                                  TransportFormatSet-CodingRate
                                                                             OPTIONAL,
    codingRate
    -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or 'turbo'
                                  TransportFormatSet-RateMatchingAttribute,
    rateMatchingAttribute
   cRC-Size
                                  TransportFormatSet-CRC-Size,
                                  TransportFormatSet-ModeSSP
   mode
                                   ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
    . . .
TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-ChannelCodingType ::= ENUMERATED {
   no-codingTDD,
    convolutional-coding,
```

```
turbo-coding,
TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third.
    . . .
TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12.
    v16,
    v24,
    . . .
TransportFormatSet-ModeDP ::= CHOICE {
    tdd
                        TDD-TransportFormatSet-ModeDP,
    notApplicable
                                NULL,
TransportFormatSet-ModeSSP ::= CHOICE {
                    TransportFormatSet-SecondInterleavingMode,
    notApplicable
                                NULL,
TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..512)
TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)
TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeSlot-related,
TransportFormatSet-TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
TransportFormatSet-TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
```

```
dynamic,
    msec-5
TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)
TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))
TSO-CapabilityLCR ::= ENUMERATED {
    tS0-Capable,
    tS0-Not-Capable
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
TSN-Length ::= ENUMERATED {
    tsn-6bits,
    tsn-9bits
TUTRANGANSS ::= SEQUENCE {
                    INTEGER(0..16383),
    18
                    INTEGER (0..4294967295)
TUTRANGANSSAccuracyClass ::= ENUMERATED {
    ganssAccuracy-class-A,
    ganssAccuracy-class-B,
    ganssAccuracy-class-C,
TUTRANGANSSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGANSSChangeLimit
                                        INTEGER (1..256)
                                                                                                                      OPTIONAL,
    predictedTUTRANGANSSDeviationLimit INTEGER(1..256)
                                                                                                                      OPTIONAL,
                            ProtocolExtensionContainer { { TUTRANGANSSMeasurementThresholdInformation-ExtlEs } }
    ie-Extensions
                                                                                                                      OPTIONAL,
TUTRANGANSSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TUTRANGANSSMeasurementValueInformation ::= SEQUENCE {
    tUTRANGANSS
                                    TUTRANGANSS,
    tUTRANGANSSQuality
                                    INTEGER (0..255)
                                                                                                                      OPTIONAL,
    tUTRANGANSSDriftRate
                                    INTEGER (-50..50),
    tUTRANGANSSDriftRateQuality
                                    INTEGER (0..50)
                                                                                                                      OPTIONAL,
```

```
ProtocolExtensionContainer { { TUTRANGANSSMeasurementValueInformation-ExtIEs } }
    ie-Extensions
                                                                                                                     OPTIONAL,
    . . .
TUTRANGANSSMeasurementValueInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-GANSS-Time-ID
                                    CRITICALITY ignore
                                                             EXTENSION GANSS-Time-ID
                                                                                                                      optional },
                                                                                          PRESENCE
    . . .
TUTRANGPS ::= SEQUENCE {
   ms-part
                INTEGER (0..16383),
   ls-part
                INTEGER (0..4294967295)
TUTRANGPSChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
TUTRANGPSDriftRate ::= INTEGER (-50..50)
-- Unit chip/s, Step 1/256 chip/s, Range -50/256..+50/256 chip/s
TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
-- Unit chip/s, Step 1/256 chip/s, Range 0..50/256 chip/s
TUTRANGPSAccuracyClass ::= ENUMERATED {
    accuracy-class-A,
    accuracy-class-B,
    accuracy-class-C,
    . . .
TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit
                                            TUTRANGPSChangeLimit
                                                                                      OPTIONAL,
    predictedTUTRANGPSDeviationLimit
                                            PredictedTUTRANGPSDeviationLimit
                                                                                      OPTIONAL,
                                    ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
TUTRANGPSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
       tUTRANGPS
                                        TUTRANGPS,
       tUTRANGPSQuality
                                        TUTRANGPSQuality
                                                                         OPTIONAL,
       tUTRANGPSDriftRate
                                        TUTRANGPSDriftRate,
        tUTRANGPSDriftRateQuality
                                        TUTRANGPSDriftRateQuality
                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { {TUTRANGPSMeasurementValueInformationItem-ExtIEs} }
        iE-Extensions
                                                                                                                                          OPTIONAL,
TUTRANGPSMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
TUTRANGPSQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
TxDiversityOnDLControlChannelsByMIMOUECapability ::= ENUMERATED {
    dL-Control-Channel-Tx-Diversity-for-MIMO-UE-with-non-diverse-P-CPICH-Capable,
    dL-Control-Channel-Tx-Diversity-for-MIMO-UE-with-non-diverse-P-CPICH-Not-Capable
TypeOfError ::= ENUMERATED {
   not-understood,
   missing,
    . . .
-- -----
-- -----
UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to OMHz .. 3276.6MHz
UC-Id ::= SEQUENCE {
    rNC-ID
                      RNC-ID,
    c-ID
                      C-ID,
                          ProtocolExtensionContainer { {UC-Id-ExtIEs} } OPTIONAL,
    iE-Extensions
UC-Id-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID
                              CRITICALITY reject
                                                     EXTENSION
                                                                Extended-RNC-ID PRESENCE
                                                                                           optional},
    . . .
UDRE ::= ENUMERATED {
    udre-minusequal-one-m,
    udre-betweenoneandfour-m,
    udre-betweenfourandeight-m,
    udre-greaterequaleight-m
UDREGrowthRate ::=
                                  ENUMERATED {
                                      growth-1-point-5,
                                      growth-2,
                                      growth-4,
                                      growth-6,
                                      growth-8,
                                      growth-10,
                                      growth-12,
                                      growth-16
UDREValidityTime
                                      ENUMERATED {
                                         val-20sec,
```

```
val-40sec.
                                            val-80sec.
                                            val-160sec.
                                            val-320sec.
                                            val-640sec.
                                            val-1280sec,
                                            val-2560sec
UE-AggregateMaximumBitRate ::= SEQUENCE {
    uE-AggregateMaximumBitRateDownlink
                                            UE-AggregateMaximumBitRateDownlink OPTIONAL,
    uE-AggregateMaximumBitRateUplink
                                            UE-AggregateMaximumBitRateUplink
                                                                                OPTIONAL,
    . . .
UE-AggregateMaximumBitRateDownlink
                                            ::= INTEGER (1..100000000)
-- Unit is bits per sec
UE-AggregateMaximumBitRateUplink
                                            ::= INTEGER (1..100000000)
-- Unit is bits per sec
UE-AggregateMaximumBitRate-Enforcement-Indicator ::= NULL
UE-Capability-Information ::= SEQUENCE {
    hSDSCH-Physical-Laver-Category
                                        INTEGER (1..64,...),
    iE-Extensions
                                        ProtocolExtensionContainer { { UE-Capability-Information-ExtIEs } }
                                                                                                                                OPTIONAL,
UE-Capability-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ID id-LCRTDD-uplink-Physical-Channel-Capability
                                                        CRITICALITY ignore EXTENSION LCRTDD-Uplink-Physical-Channel-Capability PRESENCE optional
    ID id-number-Of-Supported-Carriers
                                                        CRITICALITY reject EXTENSION Number-Of-Supported-Carriers
                                                                                                                                PRESENCE optional }
    ID id-MultiCarrier-HSDSCH-Physical-Layer-Category
                                                       CRITICALITY ignore EXTENSION LCRTDD-HSDSCH-Physical-Layer-Category
                                                                                                                                PRESENCE optional }
    {ID id-MIMO-SFMode-Supported-For-HSPDSCHDualStream
                                                        CRITICALITY ignore EXTENSION MIMO-SFMode-For-HSPDSCHDualStream
                                                                                                                                PRESENCE optional
    ID id-UE-TS0-CapabilityLCR
                                                        CRITICALITY ignore EXTENSION UE-TSO-CapabilityLCR
                                                                                                                                PRESENCE optional },
    . . .
UE-TSO-CapabilityLCR ::= ENUMERATED {
    uE-TS0-Capable,
    uE-TS0-Not-Capable
UE-SupportIndicatorExtension ::= BIT STRING (SIZE (32))
-- First bit: Different HS-SCCH In Consecutive TTIs Support Indicator
-- Second bit: HS-SCCH orders in HS-SCCH-less Operation Support Indicator
-- Third bit: RRC Rel-9 (onwards) handling of DL secondary HS-DSCH (de)activation state Support Indicator
-- Fourth bit: UE DTX/DRX related HS-SCCH orders uniform behavior indicator
-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.
LCRTDD-HSDSCH-Physical-Layer-Category ::= INTEGER (1..64)
UE-DPCCH-burst1 ::= ENUMERATED {v1, v2, v5}
    -- Unit subframe
```

```
UE-DPCCH-burst2 ::= ENUMERATED {v1, v2, v5}
    -- Unit subframe
UE-DRX-Cycle ::= ENUMERATED {v4, v5, v8, v10, v16, v20}
    -- Unit subframe
UE-DRX-Grant-Monitoring ::= BOOLEAN
    -- true: applied, false: not applied
UE-DTX-Cycle1-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
    -- Unit subframe
UE-DTX-Cycle1-10ms ::= ENUMERATED {v1, v5, v10, v20}
    -- Unit subframe
UE-DTX-Cycle2-2ms ::= ENUMERATED {v4, v5, v8, v10, v16, v20, v32, v40, v64, v80, v128, v160}
    -- Unit subframe
UE-DTX-Cycle2-10ms ::= ENUMERATED {v5, v10, v20, v40, v80, v160}
    -- Unit subframe
UE-DTX-DRX-Offset ::= INTEGER (0..159)
    -- Unit subframe
UE-DTX-Long-Preamble ::= ENUMERATED {v2, v4, v15}
    -- Units of slots
UL-CapacityCredit ::= INTEGER (0..65535)
UL-Delta-T2TP ::= INTEGER (0..6,...)
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
UL-DPDCH-Indicator-For-E-DCH-Operation ::= ENUMERATED {
    ul-DPDCH-present,
    ul-DPDCH-not-present
Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    . . .
UL-Timeslot-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem
```

```
UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot
                                          TimeSlot.
    midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
    tFCI-Presence
                                          TFCI-Presence,
    uL-Code-InformationList
                                          TDD-UL-Code-Information.
                                          ProtocolExtensionContainer { { UL-Timeslot-InformationItem-ExtIEs} }
    iE-Extensions
                                                                                                                    OPTIONAL,
UL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeslotLCR-InformationItem
UL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                          TimeSlotLCR,
   midambleShiftLCR
                                          MidambleShiftLCR,
    tFCI-Presence
                                          TFCI-Presence,
    uL-Code-InformationList
                                          TDD-UL-Code-LCR-Information,
    iE-Extensions
                                          ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs} }
                                                                                                                    OPTIONAL,
UL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
EXTENSION PLCCHinformation
                                                                                                                PRESENCE optional },
UL-Timeslot768-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot768-InformationItem
UL-Timeslot768-InformationItem ::= SEQUENCE {
                                          TimeSlot,
                                          MidambleShiftAndBurstType768,
   midambleShiftAndBurstType768
    tFCI-Presence
                                          TFCI-Presence,
   uL-Code-InformationList
                                          TDD-UL-Code-768-Information,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Timeslot768-InformationItem-ExtIEs} } 
                                                                                                                    OPTIONAL,
UL-Timeslot768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCCH-SlotFormat ::= INTEGER (0..5,...)
UL-SIR ::= INTEGER (-82..173)
-- According to mapping in TS 25.427 [16]
UL-FP-Mode ::= ENUMERATED {
   normal,
    silent,
```

```
UL-PhysCH-SF-Variation ::= ENUMERATED {
    sf-variation-supported,
    sf-variation-not-supported
UL-ScramblingCode ::= SEQUENCE {
    uL-ScramblingCodeNumber
                                    UL-ScramblingCodeNumber,
    uL-ScramblingCodeLength
                                    UL-ScramblingCodeLength,
                                    ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } }
    iE-Extensions
                                                                                                                     OPTIONAL,
UL-ScramblingCode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-ScramblingCodeNumber ::= INTEGER (0..16777215)
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
UL-Synchronisation-Parameters-LCR ::= SEQUENCE {
    uL-Synchronisation-StepSize
                                        UL-Synchronisation-StepSize,
    uL-Synchronisation-Frequency
                                        UL-Synchronisation-Frequency,
    iE-Extensions
                                        ProtocolExtensionContainer { { UL-Synchronisation-Parameters-LCR-ExtIEs } }
                                                                                                                         OPTIONAL,
UL-Synchronisation-Parameters-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Synchronisation-StepSize ::= INTEGER (1..8)
UL-Synchronisation-Frequency ::= INTEGER (1..8)
UPPCHPositionLCR ::= INTEGER (0..127)
UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1...maxNrOfULTSs)) OF UL-TimeSlot-ISCP-InfoItem
UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    iSCP
                                    UL-TimeslotISCP-Value,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs} } 
                                                                                                                         OPTIONAL,
UL-TimeSlot-ISCP-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeSlot-ISCP-LCR-InfoItem
UL-TimeSlot-ISCP-LCR-InfoItem ::= SEOUENCE {
   timeSlotLCR
                                   TimeSlotLCR.
   iscp
                                   UL-TimeslotISCP-Value.
   iE-Extensions
                                   ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs} }
                                                                                                                     OPTIONAL,
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UppTSInterference-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF UppTSInterference-For-CellPortion-Value-Item
UpPTSInterference-For-CellPortion-Value-Item ::= SEOUENCE{
   cellPortionLCRID
                                              CellPortionLCRID,
   upPTSInterferenceValue
                                              UpPTSInterferenceValue,
   iE-Extensions
                                          ProtocolExtensionContainer { { UppTSInterference-For-CellPortion-Value-Item-ExtIEs} }
   OPTIONAL,
    . . .
UppTSInterference-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UpPTSInterferenceValue ::= INTEGER (0..127,...)
Unidirectional-DCH-Indicator
                              ::= ENUMERATED {
   downlink-DCH-only,
   uplink-DCH-only
USCH-Information ::= SEOUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
   uSCH-ID
                                          USCH-ID,
   cCTrCH-ID
                                          CCTrCH-ID,
                                                              -- UL CCTrCH in which the USCH is mapped
    transportFormatSet
                                          TransportFormatSet, -- For USCH
    allocationRetentionPriority
                                          AllocationRetentionPriority,
                                          iE-Extensions
                                                                                                                     OPTIONAL,
USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
   { ID id-bindingID
                                          CRITICALITY ignore
                                                                  EXTENSION
                                                                              BindingID
                                                                                                                 PRESENCE
                                                                                                                            optional
                                                                                                                                           } |
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                          CRITICALITY ignore
                                                                  EXTENSION
                                                                             TransportLayerAddress
                                                                                                                 PRESENCE
                                                                                                                            optional
                                                                                                                                           } |
    -- Shall be ignored if bearer establishment with ALCAP.
                                                                             TnlQos PRESENCE optional
   { ID id-TnlOos
                                          CRITICALITY ignore
                                                                  EXTENSION
    . . .
```

```
USCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem
USCH-InformationResponseItem ::= SEQUENCE {
   uSCH-ID
                                       USCH-ID,
   bindingID
                                       BindingID
                                                           OPTIONAL.
   transportLayerAddress
                                       TransportLayerAddress OPTIONAL,
   iE-Extensions
                                       ProtocolExtensionContainer { { USCH-InformationResponseItem-ExtIEs} }
                                                                                                         OPTIONAL,
USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-TimeslotISCP-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF UL-TimeslotISCP-For-CellPortion-Value-Item
UL-TimeslotISCP-For-CellPortion-Value-Item ::= SEQUENCE{
   cellPortionLCRID
                                       CellPortionLCRID,
   uL-TimeslotISCP-Value
                                       UL-TimeslotISCP-Value,
                                    ProtocolExtensionContainer { { UL-TimeslotISCP-For-CellPortion-Value-Item-ExtIEs} }
   iE-Extensions
                                                                                                               OPTIONAL,
   . . .
UL-TimeslotISCP-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-TimeslotISCP-Value ::= INTEGER (0..127)
-- According to mapping in TS 25.123 [23]
UL-TimeslotISCP-Value-IncrDecrThres ::= INTEGER (0..126)
USCH-ID ::= INTEGER (0..255)
Uu-ActivationState ::= ENUMERATED {
   activated.
   de-activated,
  _____
  _____
  _____
-- -----
-- -----
-- -----
-- -----
```

9.3.5 Common Definitions

```
*****************
-- Common definitions
__ *******************
NBAP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
__ *******************
-- Extension constants
__ *********************
maxPrivateIEs
                        INTEGER ::= 65535
maxProtocolExtensions
                      INTEGER ::= 65535
                       INTEGER ::= 65535
maxProtocolIEs
__ *********************
-- Common Data Types
__ *******************
            ::= ENUMERATED { reject, ignore, notify }
Criticality
MessageDiscriminator
                ::= ENUMERATED { common, dedicated }
            ::= ENUMERATED { optional, conditional, mandatory }
Presence
PrivateIE-ID ::= CHOICE {
   local
                 INTEGER (0..maxPrivateIEs),
   global
                 OBJECT IDENTIFIER
ProcedureCode ::= INTEGER (0..255)
```

```
ProcedureID
               ::= SEQUENCE {
    procedureCode
                            ProcedureCode,
    ddMode
                            ENUMERATED { tdd, fdd, common, ... }
                   ::= INTEGER (0..maxProtocolIEs)
ProtocolIE-ID
TransactionID
                 ::= CHOICE {
    shortTransActionId
                           INTEGER (0..127),
                           INTEGER (0..32767)
    longTransActionId
TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessfull-outcome, outcome }
END
```

9.3.6 Constant Definitions

```
-- Constant definitions
__ **********************
NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   ProcedureCode,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
  *****************
-- Elementary Procedures
  *****************
id-audit
                                                 ProcedureCode ::= 0
id-auditRequired
                                                 ProcedureCode ::= 1
id-blockResource
                                                 ProcedureCode ::= 2
id-cellDeletion
                                                 ProcedureCode ::= 3
id-cellReconfiguration
                                                 ProcedureCode ::= 4
id-cellSetup
                                                ProcedureCode ::= 5
id-cellSynchronisationInitiation
                                                ProcedureCode ::= 45
id-cellSynchronisationReconfiguration
                                                ProcedureCode ::= 46
id-cellSynchronisationReporting
                                                ProcedureCode ::= 47
id-cellSynchronisationTermination
                                                ProcedureCode ::= 48
```

```
ProcedureCode ::= 49
id-cellSynchronisationFailure
id-commonMeasurementFailure
                                                       ProcedureCode ··= 6
id-commonMeasurementInitiation
                                                       ProcedureCode ::= 7
id-commonMeasurementReport
                                                       ProcedureCode ::= 8
id-commonMeasurementTermination
                                                       ProcedureCode ::= 9
id-commonTransportChannelDelete
                                                       ProcedureCode ::= 10
id-commonTransportChannelReconfigure
                                                       ProcedureCode ::= 11
id-commonTransportChannelSetup
                                                       ProcedureCode ::= 12
id-compressedModeCommand
                                                       ProcedureCode ::= 14
id-dedicatedMeasurementFailure
                                                       ProcedureCode ::= 16
id-dedicatedMeasurementInitiation
                                                       ProcedureCode ::= 17
id-dedicatedMeasurementReport
                                                       ProcedureCode ::= 18
id-dedicatedMeasurementTermination
                                                       ProcedureCode ::= 19
id-downlinkPowerControl
                                                       ProcedureCode ::= 20
id-downlinkPowerTimeslotControl
                                                       ProcedureCode ::= 38
id-errorIndicationForCommon
                                                       ProcedureCode ··= 35
id-errorIndicationForDedicated
                                                       ProcedureCode ::= 21
                                                       ProcedureCode ::= 40
id-informationExchangeFailure
id-informationExchangeInitiation
                                                       ProcedureCode ::= 41
id-informationExchangeTermination
                                                       ProcedureCode ::= 42
id-informationReporting
                                                       ProcedureCode ::= 43
id-BearerRearrangement
                                                       ProcedureCode ::= 50
id-mBMSNotificationUpdate
                                                       ProcedureCode ::= 53
id-physicalSharedChannelReconfiguration
                                                       ProcedureCode ::= 37
id-privateMessageForCommon
                                                       ProcedureCode ::= 36
id-privateMessageForDedicated
                                                       ProcedureCode ::= 22
id-radioLinkAddition
                                                       ProcedureCode ::= 23
id-radioLinkDeletion
                                                       ProcedureCode ::= 24
id-radioLinkFailure
                                                       ProcedureCode ::= 25
id-radioLinkPreemption
                                                       ProcedureCode ::= 39
id-radioLinkRestoration
                                                       ProcedureCode ::= 26
id-radioLinkSetup
                                                       ProcedureCode ::= 27
id-reset
                                                       ProcedureCode ::= 13
id-resourceStatusIndication
                                                       ProcedureCode ::= 28
id-cellSvnchronisationAdjustment
                                                       ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation
                                                       ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit
                                                       ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation
                                                       ProcedureCode ::= 31
id-systemInformationUpdate
                                                       ProcedureCode ::= 32
id-unblockResource
                                                       ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration
                                                       ProcedureCode ::= 34
                                                       ProcedureCode ::= 51
id-radioLinkActivation
id-radioLinkParameterUpdate
                                                       ProcedureCode ::= 52
id-uEStatusUpdate
                                                       ProcedureCode ::= 54
id-secondaryULFrequencyReporting
                                                       ProcedureCode ::= 55
id-secondaryULFrequencyUpdate
                                                       ProcedureCode ::= 56
__ *******************
-- Lists
__ *********************
                           INTEGER ::= 10
maxNrOfCodes
```

```
maxNrOfDLTSs
                            INTEGER ::= 15
maxNrOfDLTSLCRs
                            INTEGER ::= 6
maxNrOfErrors
                            INTEGER ::= 256
maxNrOfTFs
                            INTEGER ::= 32
maxNrOfTFCs
                            INTEGER ::= 1024
                            INTEGER ::= 16
maxNrOfRLs
                            INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-1
                            INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfRLs-2
maxNrOfRLSets
                            INTEGER ··= maxNrOfRLs
                            INTEGER ::= 240
maxNrOfDPCHs
maxNrOfDPCHsPerRL-1
                            INTEGER ::= 239 -- maxNrofCCTrCH*maxNrOfULTSs-1
maxNrOfDPCHLCRs
                            INTEGER ::= 240
maxNrOfDPCHsLCRPerRL-1
                            INTEGER ::= 95 -- maxNrofCCTrCH*maxNrOfULTSLCRs-1
maxNrOfDPCHs768
                            INTEGER ::= 480
                            INTEGER ::= 479
maxNrOfDPCHs768PerRL-1
maxNrOfSCCPCHs
                            INTEGER ::= 8
                            INTEGER ::= 232
maxNrOfSCCPCHsinExt
maxNrOfSCCPCHs768
                            INTEGER ::= 480
maxNrOfDCHs
                            INTEGER ::= 128
                            INTEGER ::= 32
maxNrOfDSCHs
maxNrOfFACHs
                            INTEGER ::= 8
                            INTEGER ::= 16
maxNrOfCCTrCHs
                            INTEGER ::= 256
maxNrOfPDSCHs
                            INTEGER ::= 16
maxNrOfHSPDSCHs
maxNrOfHSPDSCHs768
                            INTEGER ::= 32
maxNrOfPUSCHs
                            INTEGER ::= 256
                            INTEGER ::= 255
maxNrOfPUSCHs-1
                            INTEGER ::= 256
maxNrOfPDSCHSets
                            INTEGER ::= 8
maxNrOfPRACHLCRs
                            INTEGER ::= 256
maxNrOfPUSCHSets
maxNrOfSCCPCHLCRs
                            INTEGER ::= 8
maxNrOfSCCPCHsLCRinExt
                            INTEGER ::= 88
maxNrOfULTSs
                            INTEGER ::= 15
maxNrOfULTSLCRs
                            INTEGER ::= 6
maxNrOfUSCHs
                            INTEGER ::= 32
maxNrOfSlotFormatsPRACH
                            INTEGER ::= 8
                            INTEGER ::= 256
maxCellinNodeB
                            INTEGER ::= 256
maxCCPinNodeB
maxCTFC
                            INTEGER ::= 16777215
maxLocalCellinNodeB
                            INTEGER ::= maxCellinNodeB
maxFPACHCell
                            INTEGER ::= 8
maxRACHCell
                            INTEGER ::= maxPRACHCell
maxPLCCHCell
                            INTEGER ::= 16
                            INTEGER ::= 16
maxPRACHCell
maxSCCPCHCell
                            INTEGER ::= 32
maxSCCPCHCellinExt
                            INTEGER ::= 208 -- maxNrOfSCCPCHs + maxNrOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExtLCR
                            INTEGER ::= 64 -- maxNrOfSCCPCHLCRs + maxNrOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCCPCHCell768
                            INTEGER ::= 480
maxSCPICHCell
                            INTEGER ::= 32
                            INTEGER ::= 4
maxTTI-count
maxIBSEG
                            INTEGER ::= 16
maxIB
                            INTEGER ::= 64
maxFACHCell
                            INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching
                            INTEGER ::= 256
```

```
maxHS-PDSCHCodeNrComp-1
                            INTEGER ::= 15
maxHS-SCCHCodeNrComp-1
                            INTEGER ::= 127
maxNrOfCellSvncBursts
                            INTEGER ::= 10
maxNrOfReceptsPerSyncFrame
                            INTEGER ::= 16
maxNrOfMeasNCell
                            INTEGER ::= 96
maxNrOfMeasNCell-1
                            INTEGER ::= 95
                                            -- maxNrOfMeasNCell - 1
maxNrOfSF
                            INTEGER ::= 8
maxTGPS
                            INTEGER ::= 6
maxCommunicationContext
                            INTEGER ::= 1048575
                            INTEGER ::= 256
maxNrOfLevels
maxNoSat
                            INTEGER ::= 16
maxNoGPSItems
                            INTEGER ::= 8
maxNrOfHSSCCHs
                            INTEGER ::= 32
maxNrOfHSSICHs
                            INTEGER ::= 4
maxNrOfHSSICHs-1
                            INTEGER ::= 3
maxNrOfSyncFramesLCR
                            INTEGER ::= 512
maxNrOfReceptionsperSyncFrameLCR
                                    INTEGER ::= 8
maxNrOfSyncDLCodesLCR
                            INTEGER ::= 32
maxNrOfHSSCCHCodes
                                INTEGER ::= 4
maxNrOfMACdFlows
                                INTEGER ::= 8
maxNrOfMACdFlows-1
                                INTEGER ::= 7
                                                -- maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes
                                INTEGER ::= 8
                                INTEGER ::= 7
maxNrOfMACdPDUIndexes-1
                                                -- maxNoOfMACdPDUIndexes - 1
maxNrOfMACdPDUSize
                                INTEGER ::= 32
                                INTEGER ::= 256
maxNrOfNIs
                                INTEGER ::= 8
maxNrOfPriorityQueues
                                INTEGER ::= 7
                                                -- maxNoOfPrioritvOueues - 1
maxNrOfPrioritvOueues-1
maxNrOfHAROProcesses
                                INTEGER ::= 8
maxNrOfContextsOnUeList
                                INTEGER ::= 16
                                INTEGER ::= 64
maxNrOfCellPortionsPerCell
maxNrOfCellPortionsPerCell-1
                                INTEGER ::= 63
maxNrOfPriorityClasses
                                INTEGER ::= 16
maxNrOfSatAlmanac-maxNoSat
                                INTEGER ::= 16
                                                -- maxNrofSatAlmanac - maxNoSat
maxNrOfE-AGCHs
                                INTEGER ::= 32
maxNrOfEDCHMACdFlows
                                INTEGER ::= 8
maxNrOfEDCHMACdFlows-1
                                INTEGER ::= 7
                                INTEGER ::= 32
maxNrOfE-RGCHs-E-HICHs
maxNrOfEDCH-HARO-PO-OUANTSTEPs INTEGER ::= 6
maxNrOfEDCHHAROProcesses2msEDCH INTEGER ::= 8
maxNrOfEDPCCH-PO-QUANTSTEPs
                                INTEGER ::= 8
maxNrOfBits-MACe-PDU-non-scheduled INTEGER ::= 19982
maxNrOfRefETFCIs
                                INTEGER ::= 8
maxNrOfRefETFCI-PO-QUANTSTEPs
                                INTEGER ::= 29
                                INTEGER ::= 39
maxNrofSigSegRGHI-1
                                INTEGER ::= 16
maxNoOfLogicalChannels
                                                -- only maximum 15 can be used
maxNrOfCombEDPDCH
                                INTEGER ::= 12
maxE-RUCCHCell
                                INTEGER ::= 16
maxNrOfEAGCHCodes
                                INTEGER ::= 4
                                INTEGER ::= 8
maxNrOfRefBetas
maxNrOfE-PUCHSlots
                                INTEGER ::= 13
maxNrOfEAGCHs
                                INTEGER ::= 32
maxNrOfHS-DSCH-TBSs-HS-SCCHless INTEGER ::= 4
                                INTEGER ::= 90
maxNrOfHS-DSCH-TBSs
                                INTEGER ::= 4
maxNrOfEHICHCodes
```

```
maxNrOfE-PUCHSlotsLCR
                               INTEGER ::= 5
maxNrOfEPIICHcodes
                               INTEGER ::= 16
maxNrOfEHICHs
                               INTEGER ::= 32
maxNrOfCommonMACFlows
                               INTEGER ::= 8
maxNrOfCommonMACFlows-1
                               INTEGER ::= 7
maxNrOfPagingMACFlow
                               INTEGER ::= 4
maxNrOfPagingMACFlow-1
                               INTEGER ::= 3
maxNrOfcommonMACOueues
                               INTEGER ::= 8
maxNrOfpagingMACQueues
                               INTEGER ::= 8
maxNrOfHS-DSCHTBSsE-PCH
                               INTEGER ::= 2
maxGANSSSat
                               INTEGER ::= 64
                               INTEGER ::= 8
maxNoGANSS
                               INTEGER ::= 8
maxSqnType
maxFrequencyinCell
                               INTEGER ::= 12
maxFrequencyinCell-1
                               INTEGER ::= 11
maxHSDPAFrequency
                               INTEGER ::= 8
maxHSDPAFrequency-1
                               INTEGER ::= 7
maxNrOfHSSCCHsinExt
                                INTEGER ::= 224
                               INTEGER ::= 36
maxGANSSSatAlmanac
maxGANSSClockMod
                               INTEGER ::= 4
maxNrOfEDCHRLs
                               INTEGER · · = 4
maxERNTItoRelease
                               INTEGER ::= 256
maxNrOfCommonEDCH
                               INTEGER ::= 32
maxNrOfCommonMACFlowsLCR
                               INTEGER ::= 256
maxNrOfCommonMACFlowsLCR-1
                               INTEGER ::= 255
maxNrOfHSSCCHsLCR
                               INTEGER ::= 256
maxNrOfEDCHMACdFlowsLCR
                               INTEGER ::= 256
maxNrOfEDCHMACdFlowsLCR-1
                               INTEGER ::= 255
                               INTEGER ::= 256
maxNrOfEAGCHsLCR
maxNrOfEHICHsLCR
                               INTEGER ::= 256
                               INTEGER ::= 32
maxnrofERUCCHsLCR
maxNrOfHSDSCH-1
                               INTEGER ::= 32
maxNrOfHSDSCH
                               INTEGER ::= 33
maxGANSS-1
                               INTEGER ::= 7
                                    INTEGER ::= 4
maxNoOfTBSs-Mapping-HS-DSCH-SPS
maxNoOfTBSs-Mapping-HS-DSCH-SPS-1
                                   INTEGER ::= 3
maxNoOfHS-DSCH-TBSsLCR
                                   INTEGER ::= 64
maxNoOfRepetition-Period-LCR
                                    INTEGER ::= 4
maxNoOfRepetitionPeriod-SPS-LCR-1
                                   INTEGER ::= 3
maxNoOf-HS-SICH-SPS
                                   INTEGER ::= 4
maxNoOf-HS-SICH-SPS-1
                                   INTEGER ::= 3
maxNoOfNon-HS-SCCH-Assosiated-HS-SICH INTEGER ::= 4
maxNoOfNon-HS-SCCH-Assosiated-HS-SICH-Ext
                                         INTEGER ::= 44
maxMBMSServiceSelect
                                   INTEGER ::= 256
maxNrOfCellPortionsPerCellLCR
                                    INTEGER ::= 256
                                   INTEGER ::= 255
maxNrOfCellPortionsPerCellLCR-1
maxNrOfEDCH-1
                                   INTEGER ::= 32
maxNoOfCommonH-RNTI
                                   INTEGER ::= 256
maxNrOfCommonMACFlowsLCRExt
                                   INTEGER ::= 248
-- maxNrOfCommonMACFlowsLCR-maxNrOfCommonMACFlows
maxofERNTI
                                   INTEGER ::= 256
maxNrOfDCHMeasurementOccasionPatternSequence
                                               INTEGER ::= 6
  ****************
```

```
__ TFc
__ *********************
id-ATCH-Information
                                                                   ProtocolIE-ID ··= 0
id-AICH-InformationItem-ResourceStatusInd
                                                                   ProtocolIE-ID ::= 1
id-BCH-Information
                                                                   ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd
                                                                   ProtocolTE-TD ::= 8
id-BCCH-ModificationTime
                                                                   ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator
                                                                   ProtocolIE-ID ::= 10
id-Cause
                                                                   ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp
                                                                   ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp
                                                                   ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd
                                                                   ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp
                                                                   ProtocolTE-ID ··= 17
id-Cell-InformationItem-ResourceStatusInd
                                                                   ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp
                                                                   ProtocolIE-ID ::= 19
id-CellParameterID
                                                                   ProtocolIE-ID ::= 23
id-CFN
                                                                   ProtocolIE-ID ::= 24
id-C-TD
                                                                   ProtocolTE-ID ::= 25
id-CommonMeasurementAccuracy
                                                                   ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt
                                                                   ProtocolTE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rgst
                                                                   ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp
                                                                   ProtocolIE-ID ::= 33
id-CommonMeasurementType
                                                                   ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID
                                                                   ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRgstFDD
                                                                   ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRgstTDD
                                                                   ProtocolIE-ID ::= 37
id-CommunicationControlPortID
                                                                   ProtocolIE-ID ::= 40
id-ConfigurationGenerationID
                                                                   ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID
                                                                   ProtocolIE-ID ::= 44
id-CriticalityDiagnostics
                                                                   ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD
                                                                   ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD
                                                                   ProtocolIE-ID ::= 49
                                                                   ProtocolIE-ID ::= 50
id-DCHs-to-Add-TDD
id-DCH-DeleteList-RL-ReconfPrepFDD
                                                                   ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD
                                                                   ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD
                                                                   ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRgstTDD
                                                                   ProtocolIE-ID ::= 55
id-DCH-FDD-Information
                                                                   ProtocolIE-ID ::= 56
                                                                   ProtocolIE-ID ::= 57
id-DCH-TDD-Information
id-DCH-InformationResponse
                                                                   ProtocolIE-ID ::= 59
id-FDD-DCHs-to-Modify
                                                                   ProtocolTE-TD := 62
id-TDD-DCHs-to-Modify
                                                                   ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRqstTDD
                                                                   ProtocolIE-ID ::= 65
id-DCH-RearrangeList-Bearer-RearrangeInd
                                                                   ProtocolIE-ID ::= 135
id-DedicatedMeasurementObjectType-DM-Rprt
                                                                   ProtocolIE-ID ::= 67
id-DedicatedMeasurementObjectType-DM-Rgst
                                                                   ProtocolIE-ID ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp
                                                                   ProtocolIE-ID ::= 69
id-DedicatedMeasurementType
                                                                   ProtocolIE-ID ::= 70
                                                                   ProtocolIE-ID ::= 72
id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD
                                                                   ProtocolIE-ID ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                                   ProtocolIE-ID ::= 76
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|--|-----------------------|
| id-DL-DPCH-InformationItem-RL-AdditionRqstTDD | ProtocolIE-ID ::= 77 |
| id-DL-DPCH-InformationList-RL-SetupRqstTDD | ProtocolIE-ID ::= 79 |
| id-DL-DPCH-Information-RL-ReconfPrepFDD | ProtocolIE-ID ::= 81 |
| id-DL-DPCH-Information-RL-ReconfRqstFDD | ProtocolIE-ID ::= 82 |
| id-DL-DPCH-Information-RL-SetupRqstFDD | ProtocolIE-ID ::= 83 |
| id-DL-DPCH-TimingAdjustment | ProtocolIE-ID ::= 21 |
| id-DL-ReferencePowerInformationItem-DL-PC-Rqst | ProtocolIE-ID ::= 84 |
| id-DLReferencePower | ProtocolIE-ID ::= 85 |
| id-DLReferencePowerList-DL-PC-Rqst | ProtocolIE-ID ::= 86 |
| id-Unused-ProtocolIE-ID-87 | ProtocolIE-ID ::= 87 |
| id-Unused-ProtocolIE-ID-89 | ProtocolIE-ID ::= 89 |
| id-Unused-ProtocolIE-ID-91 | ProtocolIE-ID ::= 91 |
| id-Unused-ProtocolIE-ID-93 | ProtocolIE-ID ::= 93 |
| id-DSCHs-to-Add-TDD | ProtocolIE-ID ::= 96 |
| id-DSCH-Information-DeleteList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 98 |
| id-DSCH-Information-ModifyList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 100 |
| id-DSCH-InformationResponse | ProtocolIE-ID ::= 105 |
| id-Unused-ProtocolIE-ID-106 | ProtocolIE-ID ::= 106 |
| id-DSCH-TDD-Information | ProtocolIE-ID ::= 107 |
| id-Unused-ProtocolIE-ID-108 | ProtocolIE-ID ::= 108 |
| id-Unused-ProtocolIE-ID-112 | ProtocolIE-ID ::= 112 |
| id-DSCH-RearrangeList-Bearer-RearrangeInd | ProtocolIE-ID ::= 136 |
| id-End-Of-Audit-Sequence-Indicator | ProtocolIE-ID ::= 113 |
| id-FACH-Information | ProtocolIE-ID ::= 116 |
| id-FACH-InformationItem-ResourceStatusInd | ProtocolIE-ID ::= 117 |
| id-FACH-ParametersList-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 120 |
| id-FACH-ParametersListIE-CTCH-SetupRqstFDD | ProtocolIE-ID ::= 121 |
| id-FACH-ParametersListIE-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 122 |
| id-IndicationType-ResourceStatusInd | ProtocolIE-ID ::= 123 |
| id-Local-Cell-ID | ProtocolIE-ID ::= 124 |
| id-Local-Cell-Group-InformationItem-AuditRsp | ProtocolIE-ID ::= 2 |
| id-Local-Cell-Group-InformationItem-ResourceStatusInd | ProtocolIE-ID ::= 3 |
| id-Local-Cell-Group-InformationItem2-ResourceStatusInd | ProtocolIE-ID ::= 4 |
| id-Local-Cell-Group-InformationList-AuditRsp | ProtocolIE-ID ::= 5 |
| id-Local-Cell-InformationItem-AuditRsp | ProtocolIE-ID ::= 125 |
| id-Local-Cell-InformationItem-ResourceStatusInd | ProtocolIE-ID ::= 126 |
| id-Local-Cell-InformationItem2-ResourceStatusInd | ProtocolIE-ID ::= 127 |
| id-Local-Cell-InformationList-AuditRsp | ProtocolIE-ID ::= 128 |
| id-AdjustmentPeriod | ProtocolIE-ID ::= 129 |
| id-MaxAdjustmentStep | ProtocolIE-ID ::= 130 |
| id-MaximumTransmissionPower | ProtocolIE-ID ::= 131 |
| id-MeasurementFilterCoefficient | ProtocolIE-ID ::= 132 |
| id-MeasurementID | ProtocolIE-ID ::= 133 |
| id-MessageStructure | ProtocolIE-ID ::= 115 |
| id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst | ProtocolIE-ID ::= 134 |
| id-NodeB-CommunicationContextID | ProtocolIE-ID ::= 143 |
| id-NeighbouringCellMeasurementInformation | ProtocolIE-ID ::= 455 |
| id-P-CCPCH-Information | ProtocolIE-ID ::= 144 |
| id-P-CCPCH-InformationItem-ResourceStatusInd | ProtocolIE-ID ::= 145 |
| id-P-CPICH-Information | ProtocolIE-ID ::= 146 |
| id-P-CPICH-InformationItem-ResourceStatusInd | ProtocolIE-ID ::= 147 |
| id-P-SCH-Information | ProtocolIE-ID ::= 148 |
| id-PCCPCH-Information-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 150 |
| id-PCCPCH-Information-Cell-SetupRqstTDD | ProtocolIE-ID ::= 151 |
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| id-PCH-Parameters-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 155 |
|---|---|
| id-PCH-ParametersItem-CTCH-SetupRqstFDD | ProtocolIE-ID ::= 156 |
| id-PCH-ParametersItem-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 157 |
| id-PCH-Information | ProtocolIE-ID ::= 158 |
| id-PDSCH-Information-AddListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 161 |
| id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 162 |
| id-PDSCHSets-AddList-PSCH-ReconfRqst | ProtocolIE-ID ::= 163 |
| id-PDSCHSets-DeleteList-PSCH-ReconfRqst | ProtocolIE-ID ::= 164 |
| id-PDSCHSets-ModifyList-PSCH-ReconfRqst | ProtocolIE-ID ::= 165 |
| id-PICH-Information | ProtocolIE-ID ::= 166 |
| id-PICH-Parameters-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 168 |
| id-PowerAdjustmentType | ProtocolIE-ID ::= 169 |
| id-PRACH-Information | ProtocolIE-ID ::= 170 |
| id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 175 |
| id-PrimaryCCPCH-Information-Cell-SetupRqstFDD | ProtocolIE-ID ::= 176 |
| id-PrimaryCPICH-Information-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 177 |
| id-PrimaryCPICH-Information-Cell-SetupRqstFDD | ProtocolIE-ID ::= 178 |
| id-PrimarySCH-Information-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 179 |
| id-PrimarySCH-Information-Cell-SetupRqstFDD | ProtocolIE-ID ::= 180 |
| id-PrimaryScramblingCode | ProtocolIE-ID ::= 181 |
| id-SCH-Information-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 183 |
| id-SCH-Information-Cell-SetupRqstTDD | ProtocolIE-ID ::= 184 |
| id-PUSCH-Information-AddListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 185 |
| id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 186 |
| id-PUSCHSets-AddList-PSCH-ReconfRqst | ProtocolIE-ID ::= 187 |
| id-PUSCHSets-DeleteList-PSCH-ReconfRqst | ProtocolIE-ID ::= 188 |
| id-PUSCHSets-ModifyList-PSCH-ReconfRqst | ProtocolIE-ID ::= 189 |
| id-RACH-Information | ProtocolIE-ID ::= 190 |
| id-RACH-ParametersItem-CTCH-SetupRqstFDD | ProtocolIE-ID ::= 196 |
| id-RACH-ParameterItem-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 197 |
| id-ReportCharacteristics | ProtocolIE-ID ::= 198 |
| id-Reporting-Object-RL-FailureInd | ProtocolIE-ID ::= 199 |
| id-Reporting-Object-RL-RestoreInd | ProtocolIE-ID ::= 200 |
| id-RL-InformationItem-DM-Rprt | ProtocolIE-ID ::= 202 |
| id-RL-InformationItem-DM-Rgst | ProtocolIE-ID ::= 203 |
| id-RL-InformationItem-DM-Rsp | ProtocolIE-ID ::= 204 |
| id-RL-InformationItem-RL-AdditionRqstFDD | ProtocolIE-ID ::= 205 |
| id-RL-informationItem-RL-DeletionRgst | ProtocolIE-ID ::= 206 |
| id-RL-InformationItem-RL-FailureInd | ProtocolIE-ID ::= 207 |
| id-RL-InformationItem-RL-PreemptRequiredInd | ProtocolIE-ID ::= 286 |
| id-RL-InformationItem-RL-ReconfPrepFDD | ProtocolIE-ID ::= 208 |
| id-RL-InformationItem-RL-ReconfRqstFDD | ProtocolIE-ID ::= 209 |
| id-RL-InformationItem-RL-RestoreInd | ProtocolIE-ID ::= 210 |
| id-RL-InformationItem-RL-SetupRqstFDD | ProtocolIE-ID ::= 211 |
| id-RL-InformationList-RL-AdditionRgstFDD | ProtocolIE-ID ::= 212 |
| id-RL-informationList-RL-DeletionRqst | ProtocolIE-ID ::= 213 |
| id-RL-InformationList-RL-PreemptRequiredInd | ProtocolIE-ID ::= 237 |
| id-RL-InformationList-RL-ReconfPrepFDD | ProtocolIE-ID ::= 214 |
| id-RL-InformationList-RL-ReconfrqstFDD | ProtocolIE-ID ::= 214 |
| id-RL-InformationList-RL-SetupRqstFDD | ProtocolIE-ID ::= 216 |
| id-RL-InformationResponseItem-RL-AdditionRspFDD | ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 |
| id-RL-InformationResponseItem-RL-ReconfReady | ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 |
| id-RL-InformationResponseItem-RL-ReconfRsp | ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 |
| id-RL-InformationResponseItem-RL-SetupRspFDD | ProtocolIE-ID ::= 219 |
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| id-RL-InformationResponseList-RL-AdditionRspFDD | ProtocolIE-ID ::= 221 |
|--|------------------------|
| id-RL-InformationResponseList-RL-ReconfReady | ProtocolIE-ID ::= 222 |
| id-RL-InformationResponseList-RL-ReconfRsp | ProtocolIE-ID ::= 223 |
| id-RL-InformationResponseList-RL-SetupRspFDD | ProtocolIE-ID ::= 224 |
| id-RL-InformationResponse-RL-AdditionRspTDD | ProtocolIE-ID ::= 225 |
| id-RL-InformationResponse-RL-SetupRspTDD | ProtocolIE-ID ::= 226 |
| id-RL-Information-RL-AdditionRqstTDD | ProtocolIE-ID ::= 227 |
| id-RL-Information-RL-ReconfRqstTDD | ProtocolIE-ID ::= 228 |
| id-RL-Information-RL-ReconfPrepTDD | ProtocolIE-ID ::= 229 |
| id-RL-Information-RL-SetupRqstTDD | ProtocolIE-ID ::= 230 |
| id-RL-ReconfigurationFailureItem-RL-ReconfFailure | ProtocolIE-ID ::= 236 |
| id-RL-Set-InformationItem-DM-Rprt | ProtocolIE-ID ::= 238 |
| id-RL-Set-InformationItem-DM-Rsp | ProtocolIE-ID ::= 240 |
| id-RL-Set-InformationItem-RL-FailureInd | ProtocolIE-ID ::= 241 |
| id-RL-Set-InformationItem-RL-RestoreInd | ProtocolIE-ID ::= 242 |
| id-S-CCPCH-Information | ProtocolIE-ID ::= 247 |
| id-S-CPICH-Information | ProtocolIE-ID ::= 249 |
| id-SCH-Information | ProtocolIE-ID ::= 251 |
| id-S-SCH-Information | ProtocolIE-ID ::= 253 |
| id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 257 |
| id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 258 |
| id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 259 |
| id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 260 |
| id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD | ProtocolIE-ID ::= 261 |
| id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 262 |
| id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD | ProtocolIE-ID ::= 263 |
| id-SecondarySCH-Information-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 264 |
| id-SecondarySCH-Information-Cell-SetupRqstFDD | ProtocolIE-ID ::= 265 |
| id-SegmentInformationListIE-SystemInfoUpdate | ProtocolIE-ID ::= 266 |
| id-SFN | ProtocolIE-ID ::= 268 |
| id-SignallingBearerRequestIndicator | ProtocolIE-ID ::= 138 |
| id-ShutdownTimer | ProtocolIE-ID ::= 269 |
| id-Start-Of-Audit-Sequence-Indicator | ProtocolIE-ID ::= 114 |
| id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD | ProtocolIE-ID ::= 270 |
| id-Successful-RL-InformationRespItem-RL-SetupFailureFDD | ProtocolIE-ID ::= 271 |
| id-SyncCase | ProtocolIE-ID ::= 274 |
| id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH | ProtocolIE-ID ::= 275 |
| id-T-Cell | ProtocolIE-ID ::= 276 |
| id-TargetCommunicationControlPortID | ProtocolIE-ID ::= 139 |
| id-TimeSlotConfigurationList-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 277 |
| id-TimeSlotConfigurationList-Cell-SetupRqstTDD | ProtocolIE-ID ::= 278 |
| id-TransmissionDiversityApplied | ProtocolIE-ID ::= 279 |
| id-TypeOfError | ProtocolIE-ID ::= 508 |
| id-UARFCNforNt | ProtocolIE-ID ::= 280 |
| id-UARFCNforNd | ProtocolIE-ID ::= 281 |
| id-UARFCNforNu | ProtocolIE-ID ::= 282 |
| id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD | ProtocolIE-ID ::= 284 |
| id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD | ProtocolIE-ID ::= 285 |
| id-UL-CCTrCH-InformationList-RL-SetupRqstTDD | ProtocolIE-ID ::= 288 |
| id-UL-DPCH-InformationItem-RL-AdditionRqstTDD | ProtocolIE-ID ::= 289 |
| id-UL-DPCH-InformationList-RL-SetupRgstTDD | ProtocolIE-ID ::= 291 |
| id-UL-DPCH-Information-RL-ReconfPrepFDD | ProtocolIE-ID ::= 293 |
| id-UL-DPCH-Information-RL-ReconfigstFDD | ProtocolIE-ID ::= 294 |
| id-UL-DPCH-Information-RL-SetupRqstFDD | ProtocolIE-ID ::= 295 |
| | Profocotifi-in ::= %42 |

| id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD | ProtocolIE-ID ::= 296 |
|---|---|
| id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD | ProtocolIE-ID ::= 297 |
| id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD | ProtocolIE-ID ::= 300 |
| id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD | ProtocolIE-ID ::= 301 |
| id-USCH-Information-Add | ProtocolIE-ID ::= 302 |
| id-USCH-Information-DeleteList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 304 |
| id-USCH-Information-ModifyList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 306 |
| id-USCH-InformationResponse | ProtocolIE-ID ::= 309 |
| id-USCH-Information | ProtocolIE-ID ::= 310 |
| id-USCH-RearrangeList-Bearer-RearrangeInd | ProtocolIE-ID ::= 141 |
| id-Active-Pattern-Sequence-Information | ProtocolIE-ID ::= 315 |
| id-AICH-ParametersListIE-CTCH-ReconfRqstFDD | ProtocolIE-ID ::= 316 |
| id-AdjustmentRatio | ProtocolIE-ID ::= 317 |
| id-Not-Used-320 | ProtocolIE-ID ::= 317 ProtocolIE-ID ::= 320 |
| id-Not-Used-322 | ProtocolIE-ID ::= 320 ProtocolIE-ID ::= 322 |
| | ProtocolIE-ID ::= 322 ProtocolIE-ID ::= 323 |
| id-FACH-ParametersListIE-CTCH-ReconfRqstFDD | |
| id-CauseLevel-PSCH-ReconfFailure | ProtocolIE-ID ::= 324 |
| id-CauseLevel-RL-AdditionFailureFDD | ProtocolIE-ID ::= 325 |
| id-CauseLevel-RL-AdditionFailureTDD | ProtocolIE-ID ::= 326 |
| id-CauseLevel-RL-ReconfFailure | ProtocolIE-ID ::= 327 |
| id-CauseLevel-RL-SetupFailureFDD | ProtocolIE-ID ::= 328 |
| id-CauseLevel-RL-SetupFailureTDD | ProtocolIE-ID ::= 329 |
| id-Not-Used-330 | ProtocolIE-ID ::= 330 |
| id-Not-Used-332 | ProtocolIE-ID ::= 332 |
| id-Closed-Loop-Timing-Adjustment-Mode | ProtocolIE-ID ::= 333 |
| id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD | ProtocolIE-ID ::= 334 |
| id-Compressed-Mode-Deactivation-Flag | ProtocolIE-ID ::= 335 |
| id-Not-Used-336 | ProtocolIE-ID ::= 336 |
| id-Not-Used-342 | ProtocolIE-ID ::= 342 |
| id-Not-Used-343 | ProtocolIE-ID ::= 343 |
| id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 346 |
| id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD | ProtocolIE-ID ::= 347 |
| id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 348 |
| id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD | ProtocolIE-ID ::= 349 |
| id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD | ProtocolIE-ID ::= 350 |
| id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 351 |
| id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD | ProtocolIE-ID ::= 352 |
| id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 353 |
| id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 355 |
| id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 356 |
| id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 357 |
| id-DL-TPC-Pattern01Count | ProtocolIE-ID ::= 358 |
| id-DPC-Mode | ProtocolIE-ID ::= 450 |
| id-DPCHConstant | ProtocolIE-ID ::= 359 |
| id-Unused-ProtocolIE-ID-94 | ProtocolIE-ID ::= 94 |
| id-Unused-ProtocolIE-ID-110 | ProtocolIE-ID ::= 110 |
| id-Unused-ProtocolIE-ID-111 | ProtocolIE-ID ::= 111 |
| id-FACH-ParametersList-CTCH-SetupRsp | ProtocolIE-ID ::= 362 |
| id-Limited-power-increase-information-Cell-SetupRqstFDD | ProtocolIE-ID ::= 369 |
| id-PCH-Parameters-CTCH-SetupRsp | ProtocolIE-ID ::= 369 ProtocolIE-ID ::= 374 |
| id-PCH-Parameters-CTCH-Secupksp id-PCH-ParametersItem-CTCH-ReconfRqstFDD | ProtocoliE-ID ::= 374 ProtocolIE-ID ::= 375 |
| - | ProtocoliE-ID ::= 375 ProtocolIE-ID ::= 376 |
| id-Not-Used-376 | |
| id-PICH-ParametersItem-CTCH-ReconfRqstFDD | ProtocolIE-ID ::= 380 |
| id-PRACHConstant | ProtocolIE-ID ::= 381 |
| | |

| id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD | ProtocolIE-ID ::= 383 |
|--|-----------------------|
| id-PUSCHConstant | ProtocolIE-ID ::= 384 |
| id-RACH-Parameters-CTCH-SetupRsp | ProtocolIE-ID ::= 385 |
| id-Unused-ProtocolIE-ID-443 | ProtocolIE-ID ::= 443 |
| id-Synchronisation-Configuration-Cell-ReconfRqst | ProtocolIE-ID ::= 393 |
| id-Synchronisation-Configuration-Cell-SetupRqst | ProtocolIE-ID ::= 394 |
| id-Transmission-Gap-Pattern-Sequence-Information | ProtocolIE-ID ::= 395 |
| id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 396 |
| id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD | ProtocolIE-ID ::= 397 |
| id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 398 |
| id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD | ProtocolIE-ID ::= 399 |
| id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD | ProtocolIE-ID ::= 400 |
| id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 401 |
| id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD | ProtocolIE-ID ::= 402 |
| id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 403 |
| id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 405 |
| id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 406 |
| id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 407 |
| id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD | ProtocolIE-ID ::= 408 |
| id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD | ProtocolIE-ID ::= 409 |
| id-CommunicationContextInfoItem-Reset | ProtocolIE-ID ::= 412 |
| id-CommunicationControlPortInfoItem-Reset | ProtocolIE-ID ::= 414 |
| id-ResetIndicator | ProtocolIE-ID ::= 416 |
| id-Unused-ProtocolIE-ID-417 | ProtocolIE-ID ::= 417 |
| id-Unused-ProtocolIE-ID-418 | ProtocolIE-ID ::= 418 |
| id-Unused-ProtocolIE-ID-419 | ProtocolIE-ID ::= 419 |
| id-Unused-ProtocolIE-ID-142 | ProtocolIE-ID ::= 142 |
| id-TimingAdvanceApplied | ProtocolIE-ID ::= 287 |
| id-CFNReportingIndicator | ProtocolIE-ID ::= 6 |
| id-SFNReportingIndicator | ProtocolIE-ID ::= 11 |
| id-InnerLoopDLPCStatus | ProtocolIE-ID ::= 12 |
| id-TimeslotISCPInfo | ProtocolIE-ID ::= 283 |
| id-PICH-ParametersItem-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 167 |
| id-PRACH-ParametersItem-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 20 |
| id-CCTrCH-InformationItem-RL-FailureInd | ProtocolIE-ID ::= 46 |
| id-CCTrCH-InformationItem-RL-RestoreInd | ProtocolIE-ID ::= 47 |
| id-CauseLevel-SyncAdjustmntFailureTDD | ProtocolIE-ID ::= 420 |
| id-CellAdjustmentInfo-SyncAdjustmntRqstTDD | ProtocolIE-ID ::= 421 |
| id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD | ProtocolIE-ID ::= 494 |
| id-CellSyncBurstInfoList-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 482 |
| id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD | ProtocolIE-ID ::= 422 |
| id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD | ProtocolIE-ID ::= 423 |
| id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 424 |
| id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 425 |
| id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 426 |
| id-CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD | ProtocolIE-ID ::= 427 |
| id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 428 |
| id-CellSyncInfo-CellSyncReprtTDD | ProtocolIE-ID ::= 429 |
| id-CSBTransmissionID | ProtocolIE-ID ::= 430 |
| id-CSBMeasurementID | ProtocolIE-ID ::= 431 |
| id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD | ProtocolIE-ID ::= 432 |
| id-NCyclesPerSFNperiod | ProtocolIE-ID ::= 433 |
| id-NRepetitionsPerCyclePeriod | ProtocolIE-ID ::= 434 |
| id-SyncFrameNumber | ProtocolIE-ID ::= 437 |
| - | |

| id-SynchronisationReportCharacteristics | | |
|--|--|-----------------------|
| dd-LateEntranceCell-InformationRespItem-SyncAdjustmntFailureTDD | id-SynchronisationReportType | ProtocolIE-ID ::= 438 |
| id-ReferenceClockAvailability | id-SynchronisationReportCharacteristics | ProtocolIE-ID ::= 439 |
| id-ReferenceSPMoffset | id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD | ProtocolIE-ID ::= 440 |
| id-InformationExchangeID | id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD | ProtocolIE-ID ::= 119 |
| id-InformationExchangeDipetType-InfEx-Rqst | id-ReferenceClockAvailability | ProtocolIE-ID ::= 435 |
| id-InformationType | id-ReferenceSFNoffset | ProtocolIE-ID ::= 436 |
| id-InformationType | id-InformationExchangeID | ProtocolIE-ID ::= 444 |
| id-InformationExphangeObjectType-InfEx-Rsp | id-InformationExchangeObjectType-InfEx-Rqst | ProtocolIE-ID ::= 445 |
| id-InformationExchangeObjectType-InfEx-RspT | id-InformationType | ProtocolIE-ID ::= 446 |
| id-IPDLParameter-Information-Cell-ReconfRgstFDD ProtocolIE-ID ::= 449 id-IPDLParameter-Information-Cell-ReconfRgstFDD ProtocolIE-ID ::= 451 id-IPDLParameter-Information-Cell-ReconfRgstTDD ProtocolIE-ID ::= 452 id-IPDLParameter-Information-Cell-ReconfRgstTDD ProtocolIE-ID ::= 453 id-IPDLPArameter-Information-Cell-SetupRgstTDD ProtocolIE-ID ::= 74 id-DwPCH-LCR-Information-RL-SetupRgstTDD ProtocolIE-ID ::= 74 id-DwPCH-LCR-Information-Cell-ReconfRgstTDD ProtocolIE-ID ::= 90 id-DwPCH-LCR-Information-Cell-ReconfRgstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-ResourcestatusInd ProtocolIE-ID ::= 99 id-DwPCH-LCR-Information-ResourcestatusInd ProtocolIE-ID ::= 101 id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD ProtocolIE-ID ::= 174 id-PACH-LCR-Information-AuditRsp ProtocolIE-ID ::= 290 id-PPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 22 id-PPACH-LCR-Information-ResourcestatusInd ProtocolIE-ID ::= 22 id-PPACH-LCR-Information-ResourcestatusInd ProtocolIE-ID ::= 312 <td< td=""><td>id-InformationReportCharacteristics</td><td>ProtocolIE-ID ::= 447</td></td<> | id-InformationReportCharacteristics | ProtocolIE-ID ::= 447 |
| id-IPDLParameter-Information-Cell-SetupRqstFDD | id-InformationExchangeObjectType-InfEx-Rsp | ProtocolIE-ID ::= 448 |
| id-IPDLParameter-Information-Cell-ReconfRgstTDD ProtocolIE-ID := 452 id-IPDLParameter-Information-Cell-ReconfRgstTDD ProtocolIE-ID := 453 id-IPDLParameter-Information-Cell-SetupRgstTDD ProtocolIE-ID := 454 id-DwPCH-LCR-Information-RL-SetupRgstTDD ProtocolIE-ID := 78 id-DwPCH-LCR-Information-SetupRgstTDD ProtocolIE-ID := 78 id-DwPCH-LCR-Information-Cell-SetupRgstTDD ProtocolIE-ID := 97 id-DwPCH-LCR-Information-Cell-ReconfRgstTDD ProtocolIE-ID := 97 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID := 99 id-DwPCH-LCR-Information-AuditRsp ProtocolIE-ID := 154 id-maxPACH-Dower-LCR-CTCH-ReconfRgstTDD ProtocolIE-ID := 290 id-FPACH-LCR-Information-AuditRsp ProtocolIE-ID := 290 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID := 292 id-FPACH-LCR-Information-StatupRgstTDD ProtocolIE-ID := 311 id-PPACH-LCR-Parameters-CTCH-SetupRgstTDD ProtocolIE-ID := 312 id-PPACH-LCR-Parameters-CTCH-SetupRgstTDD ProtocolIE-ID := 453 id-PACH-LCR-ParametersList-CTCH-S | id-InformationExchangeObjectType-InfEx-Rprt | ProtocolIE-ID ::= 449 |
| id-IPDLParameter-Information-Cell-SetupRqstTDD ProtocolIE-ID :: = 453 id-IPDLParameter-Information-Cell-SetupRqstTDD ProtocolIE-ID :: = 454 id-DL-DPCH-LCR-Information in End-SetupRqstTDD ProtocolIE-ID :: = 74 id-DWPCH-LCR-Information in End-SetupRqstTDD ProtocolIE-ID :: = 90 id-DWPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID :: = 97 id-DWPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID :: = 97 id-DWPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID :: = 101 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID :: = 101 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID :: = 174 id-PACH-LCR-Information-AuditRsp ProtocolIE-ID :: = 292 id-FPACH-LCR-Information-AuditRsp ProtocolIE-ID :: = 292 id-PPACH-LCR-InformationList-AuditRsp ProtocolIE-ID :: = 312 id-PPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID :: = 312 id-PPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID :: = 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID :: = 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID :: = 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID :: = 468 id-PCH-Power-LCR-CTCH-SetupRqstTDD | id-IPDLParameter-Information-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 451 |
| id-IPDLPArameter-Information-Cell-SetupRgstTDD ProtocolIE-ID ::= 454 id-DDPCH-LCR-Information ProtocolIE-ID ::= 78 id-DwPCH-LCR-Information ProtocolIE-ID ::= 78 id-DwPCH-LCR-Information-Earl-SetupRgstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-Cell-ReconfRgstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID ::= 99 id-maxPACH-Power-LCR-CTCH-SetupRgstTDD ProtocolIE-ID ::= 101 id-maxPACH-Power-LCR-CTCH-ReconfRgstTDD ProtocolIE-ID ::= 154 id-maxPACH-Power-LCR-CTCH-ReconfRgstTDD ProtocolIE-ID ::= 129 id-FPACH-LCR-Information ProtocolIE-ID ::= 290 id-FPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 291 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 312 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 314 id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD ProtocolIE-ID ::= 314 id-PCCPCH-LCR-Information-Cell-SetupRgstTDD ProtocolIE-ID ::= 456 id-PCCPCH-LCR-Information-Cell-SetupRgstTDD ProtocolIE-ID ::= 458 id-PCCPCH-LCR-CR-CTCH-SetupRgstTDD ProtocolIE-ID ::= 459 id-PCCPCH-LCR-CR-CTCH-SetupRgstTDD ProtocolIE-ID ::= 461 </td <td>id-IPDLParameter-Information-Cell-SetupRqstFDD</td> <td>ProtocolIE-ID ::= 452</td> | id-IPDLParameter-Information-Cell-SetupRqstFDD | ProtocolIE-ID ::= 452 |
| id-DL-DPCH-LCR-Information rd.d-DwPCH-LCR-Information ProtocolIE-ID ::= 78 id-DwPCH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 90 id-DwPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 99 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID ::= 191 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 174 id-maxFACH-DCR-Information ProtocolIE-ID ::= 290 id-FPACH-LCR-Information-AuditRsp ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 312 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 312 id-FPACH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-TCH-SetupRqstTDD ProtocolIE-ID ::= 459 id-PACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 451 </td <td>id-IPDLParameter-Information-Cell-ReconfRqstTDD</td> <td>ProtocolIE-ID ::= 453</td> | id-IPDLParameter-Information-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 453 |
| id-DwPCH-LCR-Information ProtocolIE-ID ::= 78 id-DwPCH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 90 id-DwPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID ::= 101 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 290 id-FPACH-LCR-Information ProtocolIE-ID ::= 290 id-FPACH-LCR-Information-AuditRsp ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 459 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 459 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 461 id-TimeSlotConfigurationList-CCR-CLRL-SetupRqstTDD ProtocolIE-ID ::= 465 </td <td></td> <td>ProtocolIE-ID ::= 454</td> | | ProtocolIE-ID ::= 454 |
| id-DwPCH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 90 id-DwPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID ::= 99 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID ::= 191 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 174 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 174 id-FPACH-LCR-Information ProtocolIE-ID ::= 290 id-FPACH-LCR-Information-AuditRsp ProtocolIE-ID ::= 291 id-FPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 311 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 468 id-PCH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD ProtocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameters-LSR-SetupRqstTDD ProtocolIE-ID ::= | id-DL-DPCH-LCR-Information-RL-SetupRqstTDD | ProtocolIE-ID ::= 74 |
| id-DwPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 97 id-DwPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID ::= 99 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID ::= 99 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 174 id-FPACH-LCR-Information ProtocolIE-ID ::= 290 id-FPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 312 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PACH-LCR-Parameters.Ist-CTCH-SetupRqstTDD ProtocolIE-ID ::= 469 id-PACH-LCR-Parameters.LCR-RL-SetupRqstTDD ProtocolIE-ID ::= 461 id-RL-InformationList-LCR-CLR-InformationRqstTDD </td <td></td> <td>ProtocolIE-ID ::= 78</td> | | ProtocolIE-ID ::= 78 |
| id-DwPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID ::= 99 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 274 id-FPACH-LCR-Information ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 21 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 312 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PCH-LCR-ParametersList-CTCH-SetupRqstTDD ProtocolIE-ID ::= | id-DwPCH-LCR-InformationList-AuditRsp | ProtocolIE-ID ::= 90 |
| id-DwPCH-LCR-Information-Cell-ReconfRqstTDD ProtocolIE-ID ::= 99 id-DwPCH-LCR-Information-ResourceStatusInd ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 154 id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 274 id-FPACH-LCR-Information ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-AuditRsp ProtocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd ProtocolIE-ID ::= 21 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 312 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PCH-LCR-ParametersList-CTCH-SetupRqstTDD ProtocolIE-ID ::= | id-DwPCH-LCR-Information-Cell-SetupRqstTDD | ProtocolIE-ID ::= 97 |
| id-maxFACH-Power-LCR-CTCH-SetupRqstTDD id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD id-FPACH-LCR-Information protocolIE-ID ::= 174 id-FPACH-LCR-Information protocolIE-ID ::= 290 id-FPACH-LCR-Information-AuditRsp protocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd protocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd protocolIE-ID ::= 214 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD protocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-ReconfRqstTDD protocolIE-ID ::= 458 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 459 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 465 id-TimeslotLCR-CM-Rqst protocolIE-ID ::= 467 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 468 id-TimeSlotCR-CM-Rqst protocolIE-ID ::= 469 prot | | ProtocolIE-ID ::= 99 |
| id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD id-FPACH-LCR-Information di-FPACH-LCR-Information-AuditRsp id-FPACH-LCR-InformationList-AuditRsp id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD id-FPACH-LCR-Information-Cell-SetupRgstTDD id-FPACH-LCR-Information-Cell-SetupRgstTDD id-PCPCH-LCR-Information-Cell-SetupRgstTDD protocolIE-ID ::= 314 id-PCPCH-Dewer-LCR-CTCH-SetupRgstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRgstTDD protocolIE-ID ::= 457 id-PICH-LCR-Parameters-CTCH-SetupRgstTDD protocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRgstTDD protocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRgstTDD protocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD protocolIE-ID ::= 463 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotLorG-Information-RL-SetupRqstTDD protocolIE-ID ::= 467 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 469 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 475 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotLCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-DPCH-LCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-DPCH-LCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-DPCH-LCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD | id-DwPCH-LCR-Information-ResourceStatusInd | ProtocolIE-ID ::= 101 |
| id-FPACH-LCR-Information | id-maxFACH-Power-LCR-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 154 |
| id-FPACH-LCR-Information-AuditRsp id-FPACH-LCR-InformationList-AuditRsp protocolIE-ID ::= 292 id-FPACH-LCR-InformationList-ResourceStatusInd protocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD protocolIE-ID ::= 314 id-PPACH-LCR-Information-Cell-SetupRqstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 458 id-PICH-CR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 459 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD protocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlot id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 467 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 470 id-DL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationList-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 473 id-TimeslotISCP-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 483 id-UL-DPCH-LCR-In | id-maxFACH-Power-LCR-CTCH-ReconfrqstTDD | ProtocolIE-ID ::= 174 |
| id-FPACH-LCR-InformationList-AuditRsp id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD protocolIE-ID ::= 314 id-PCCPCH-LCR-Information-Cell-SetupRqstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlot-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 468 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 469 id-UL-DPCH-Information-RL-SetupRqstTDD protocolIE-ID ::= 469 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 471 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 473 id-TimeslotISCP-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL | id-FPACH-LCR-Information | ProtocolIE-ID ::= 290 |
| id-FPACH-LCR-InformationList-AuditRsp id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 312 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD protocolIE-ID ::= 314 id-PCCPCH-LCR-Information-Cell-SetupRqstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD protocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlot-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 468 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 469 id-UL-DPCH-Information-RL-SetupRqstTDD protocolIE-ID ::= 469 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 471 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 473 id-TimeslotISCP-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-TimeslotISCP-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL | id-FPACH-LCR-Information-AuditRsp | ProtocolIE-ID ::= 292 |
| id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 311 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 312 id-FPACH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 314 id-PCCPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 459 id-PRACH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD ProtocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ProtocolIE-ID ::= 465 id-TimeSlot ProtocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ProtocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ProtocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ProtocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst ProtocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 469 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 470 id-DL-DPCH-InformationList-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 473 id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 474 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477 id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 483 id-U | | |
| id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD id-PCCPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ProtocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRspTDD ProtocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ProtocolIE-ID ::= 465 id-TimeSlot id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ProtocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ProtocolIE-ID ::= 467 id-TimeSlotISCP-LCR-InfoList-RL-SetupRqstTDD ProtocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst ProtocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 472 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 473 id-TimeslotISCP-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 474 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 476 id-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-Timeslot-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD | id-FPACH-LCR-InformationList-ResourceStatusInd | |
| id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD id-PCCPCH-LCR-Information-Cell-SetupRqstTDD ProtocolIE-ID ::= 456 id-PCH-Power-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 457 id-PCH-Power-LCR-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 458 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ProtocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRspTDD ProtocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ProtocolIE-ID ::= 465 id-TimeSlot id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ProtocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ProtocolIE-ID ::= 467 id-TimeSlotISCP-LCR-InfoList-RL-SetupRqstTDD ProtocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst ProtocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 472 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 473 id-TimeslotISCP-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 474 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 476 id-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-Timeslot-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD | id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD | ProtocolIE-ID ::= 312 |
| id-PCCPCH-LCR-Information-Cell-SetupRqstTDD id-PCH-Power-LCR-CTCH-SetupRqstTDD id-PCH-Power-LCR-CTCH-ReconfRqstTDD id-PCH-Power-LCR-CTCH-ReconfRqstTDD id-PCH-Power-LCR-CTCH-ReconfRqstTDD id-PCH-LCR-Parameters-CTCH-SetupRqstTDD id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD id-RL-InformationResponse-LCR-RL-SetupRspTDD id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD id-TimeSlot id-TimeSlot id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD id-TimeSlotSp-LCR-InfoList-RL-SetupRqstTDD id-TimeSlotScP-LCR-InfoList-RL-SetupRqstTDD id-TimeSlotLCR-CM-Rqst id-TimeSlotLCR-CM-Rqst id-UL-DPCH-LCR-Information-RL-SetupRqstTDD id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD id-TimeslotLSCP-InformationList-LCR-RL-AdditionRqstTDD id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD id-TimeslotLSCPInforList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD id-TimeslotSCPInformationModify-ModifyList-RL-ReconfPrepTDD id-TimeslotSCPInformationAddListE-RL-ReconfPrepTDD id-TimeslotSCPInformationAddListE-RL-ReconfPrepTDD id-UL-DPCH-LCR-InformationAddListE-RL-ReconfPrepTDD id-UL-DPCH-LCR-InformationAddListE-RL-ReconfPrepTDD id-UL-DPCH-LCR-InformationAddListE-RL-ReconfPrepTDD id-UL-DPCH-LCR-InformationAddListE-RL-ReconfPrepTDD id-UL-DPCH-LCR-InformationAddListE-RL-ReconfPrepTDD id-UL-DPCH-LCR-Information | ± ± | |
| id-PCH-Power-LCR-CTCH-SetupRqstTDD id-PCH-Power-LCR-CTCH-ReconfRqstTDD protocolIE-ID ::= 458 id-PCH-Power-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 458 id-PCH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRqstTDD protocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlot id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-RL-SetupRqstTDD protocolIE-ID ::= 467 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationList-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 473 id-TimeSlotISCP-InformationList-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 470 id-UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-Timeslot-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 483 id-UL-Time | _ | |
| id-PCH-Power-LCR-CTCH-ReconfRqstTDD id-PICH-LCR-Parameters-CTCH-SetupRqstTDD protocolIE-ID ::= 459 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD protocolIE-ID ::= 461 id-RL-InformationResponse-LCR-RL-SetupRgstTDD protocolIE-ID ::= 463 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlot protocolIE-ID ::= 465 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 467 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 472 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 473 id-TimeslotISCP-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 479 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD protocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-TimeslotLCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-TimeslotLCR-InformationModify-AddList protocolIE-ID ::= 483 | <u> </u> | ProtocolIE-ID ::= 457 |
| id-PICH-LCR-Parameters-CTCH-SetupRqstTDDProtocolIE-ID::=459id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDDProtocolIE-ID::=461id-RL-InformationResponse-LCR-RL-SetupRspTDDProtocolIE-ID::=463id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDDProtocolIE-ID::=465id-TimeSlotProtocolIE-ID::=495id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDDProtocolIE-ID::=466id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDDProtocolIE-ID::=467id-TimeSlotLSCP-LCR-InfoList-RL-SetupRqstTDDProtocolIE-ID::=468id-TimeSlotLCR-CM-RqstProtocolIE-ID::=469id-UL-DPCH-LCR-Information-RL-SetupRqstTDDProtocolIE-ID::=470id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDDProtocolIE-ID::=472id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDDProtocolIE-ID::=473id-TimeslotISCP-InformationAddList-RL-ReconfPrepTDDProtocolIE-ID::=473id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDDProtocolIE-ID::=477id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDDProtocolIE-ID::=470id-UL-DPCH-LCR-InformationAddListIB-RL-ReconfPrepTDDProtocolIE-ID::=480id-UL-DPCH-LCR-InformationModify-AddListProtocolIE-ID::=481id-UL-DPCH-LCR-InformationModify-AddListProtocolIE-ID::=483id-UL-DPCH-LCR-Information-RL-ReconfPrepTDDProtocolIE-ID <td< td=""><td></td><td></td></td<> | | |
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| id-RL-InformationResponse-LCR-RL-SetupRspTDD id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD protocolIE-ID ::= 465 id-TimeSlot protocolIE-ID ::= 495 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD protocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD protocolIE-ID ::= 467 id-TimeSlotISCP-LCR-InfoList-RL-SetupRqstTDD protocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst protocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD protocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 470 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD protocolIE-ID ::= 473 id-TimeslotISCP-InformationAddList-RL-ReconfPrepTDD protocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD protocolIE-ID ::= 477 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD protocolIE-ID ::= 476 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD protocolIE-ID ::= 478 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD protocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList protocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD protocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD | | ProtocolIE-ID ::= 461 |
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| id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ProtocolIE-ID ::= 466 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ProtocolIE-ID ::= 467 id-TimeSlotISCP-LCR-InfoList-RL-SetupRqstTDD ProtocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst ProtocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 472 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 473 id-TimeSlotISCP-InformationAddList-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 474 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-TimeslotSCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 485 | | |
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| id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD ProtocolIE-ID ::= 468 id-TimeSlotLCR-CM-Rqst ProtocolIE-ID ::= 469 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 470 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 472 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 473 id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 474 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 485 | <u> </u> | ProtocolIE-ID ::= 467 |
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| id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 474 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 475 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477 id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 480 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 485 | | |
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| id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 481 id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 485 | _ | |
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| id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 485 | | |
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| id DDGGU Addressmanking LGD DGGU DescentDook | Descharal III ID 406 |
|---|-----------------------|
| id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 486 |
| id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 487 |
| id-Unused-ProtocolIE-ID-26 | ProtocolIE-ID ::= 26 |
| id-Unused-ProtocolIE-ID-27 | ProtocolIE-ID ::= 27 |
| id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 488 |
| id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 489 |
| id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 490 |
| id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 491 |
| id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 492 |
| id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst | ProtocolIE-ID ::= 493 |
| id-timeslotInfo-CellSyncInitiationRqstTDD | ProtocolIE-ID ::= 496 |
| id-SyncReportType-CellSyncReprtTDD | ProtocolIE-ID ::= 497 |
| id-Power-Local-Cell-Group-InformationItem-AuditRsp | ProtocolIE-ID ::= 498 |
| id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd | ProtocolIE-ID ::= 499 |
| id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd | ProtocolIE-ID ::= 500 |
| id-Power-Local-Cell-Group-InformationList-AuditRsp | ProtocolIE-ID ::= 501 |
| id-Power-Local-Cell-Group-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 502 |
| id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd | ProtocolIE-ID ::= 503 |
| id-Power-Local-Cell-Group-ID | ProtocolIE-ID ::= 504 |
| <u>-</u> | ProtocolIE-ID ::= 505 |
| id-PUSCH-Info-DM-Rqst | |
| id-PUSCH-Info-DM-Rsp | ProtocolIE-ID ::= 506 |
| id-PUSCH-Info-DM-Rprt | ProtocolIE-ID ::= 507 |
| id-InitDL-Power | ProtocolIE-ID ::= 509 |
| id-cellSyncBurstRepetitionPeriod | ProtocolIE-ID ::= 511 |
| id-ReportCharacteristicsType-OnModification | ProtocolIE-ID ::= 512 |
| id-SFNSFNMeasurementValueInformation | ProtocolIE-ID ::= 513 |
| id-SFNSFNMeasurementThresholdInformation | ProtocolIE-ID ::= 514 |
| id-TUTRANGPSMeasurementValueInformation | ProtocolIE-ID ::= 515 |
| id-TUTRANGPSMeasurementThresholdInformation | ProtocolIE-ID ::= 516 |
| id-Rx-Timing-Deviation-Value-LCR | ProtocolIE-ID ::= 520 |
| id-RL-InformationResponse-LCR-RL-AdditionRspTDD | ProtocolIE-ID ::= 51 |
| id-DL-PowerBalancing-Information | ProtocolIE-ID ::= 28 |
| id-DL-PowerBalancing-ActivationIndicator | ProtocolIE-ID ::= 29 |
| id-DL-PowerBalancing-UpdatedIndicator | ProtocolIE-ID ::= 30 |
| id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD | ProtocolIE-ID ::= 517 |
| id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD | ProtocolIE-ID ::= 518 |
| id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD | ProtocolIE-ID ::= 519 |
| id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD | ProtocolIE-ID ::= 41 |
| id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 42 |
| id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst | ProtocolIE-ID ::= 522 |
| id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst | ProtocolIE-ID ::= 523 |
| id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst | ProtocolIE-ID ::= 524 |
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| id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst | ProtocolIE-ID ::= 527 |
| id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst | ProtocolIE-ID ::= 528 |
| id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst | ProtocolIE-ID ::= 529 |
| id-bindingID | ProtocolIE-ID ::= 102 |
| id-RL-Specific-DCH-Info | ProtocolIE-ID ::= 103 |
| id-transportlayeraddress | ProtocolIE-ID ::= 104 |
| id-DelayedActivation | ProtocolIE-ID ::= 231 |
| id-DelayedActivationList-RL-ActivationCmdFDD | ProtocolIE-ID ::= 232 |
| id-DelayedActivationInformation-RL-ActivationCmdFDD | ProtocolIE-ID ::= 233 |
| id-DelayedActivationList-RL-ActivationCmdTDD | ProtocolIE-ID ::= 234 |
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| id-DelayedActivationInformation-RL-ActivationCmdTDD | ProtocolIE-ID ::= 235 |
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| id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD | ProtocolIE-ID ::= 543 |
| id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD | ProtocolIE-ID ::= 544 |
| id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 545 |
| id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 546 |
| id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 547 |
| id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD | ProtocolIE-ID ::= 548 |
| id-SyncDLCodeIdThreInfoLCR | ProtocolIE-ID ::= 549 |
| id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD | ProtocolIE-ID ::= 550 |
| id-DwPCH-Power | ProtocolIE-ID ::= 551 |
| id-AccumulatedClockupdate-CellSyncReprtTDD | ProtocolIE-ID ::= 552 |
| id-Angle-Of-Arrival-Value-LCR | ProtocolIE-ID ::= 521 |
| id-HSDSCH-FDD-Information | ProtocolIE-ID ::= 530 |
| id-HSDSCH-FDD-Information-Response | ProtocolIE-ID ::= 530 ProtocolIE-ID ::= 531 |
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| id-HSDSCH-Information-to-Modify | ProtocolIE-ID ::= 534 |
| id-HSDSCH-RNTI | ProtocolIE-ID ::= 535 |
| id-HSDSCH-TDD-Information | ProtocolIE-ID ::= 536 |
| id-HSDSCH-TDD-Information-Response | ProtocolIE-ID ::= 537 |
| id-HSPDSCH-RL-ID | ProtocolIE-ID ::= 541 |
| id-PrimCCPCH-RSCP-DL-PC-RqstTDD | ProtocolIE-ID ::= 542 |
| id-Unused-ProtocolIE-ID-64 | ProtocolIE-ID ::= 64 |
| id-PDSCH-RL-ID | ProtocolIE-ID ::= 66 |
| id-HSDSCH-RearrangeList-Bearer-RearrangeInd | ProtocolIE-ID ::= 553 |
| id-UL-Synchronisation-Parameters-LCR | ProtocolIE-ID ::= 554 |
| id-HSDSCH-FDD-Update-Information | ProtocolIE-ID ::= 555 |
| id-HSDSCH-TDD-Update-Information | ProtocolIE-ID ::= 556 |
| id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD | ProtocolIE-ID ::= 558 |
| id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD | ProtocolIE-ID ::= 559 |
| id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD | ProtocolIE-ID ::= 560 |
| id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD | ProtocolIE-ID ::= 561 |
| id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD | ProtocolIE-ID ::= 562 |
| | ProtocolIE-ID ::= 562 ProtocolIE-ID ::= 563 |
| id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD | |
| id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD | ProtocolIE-ID ::= 564 |
| id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD | ProtocolIE-ID ::= 565 |
| id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD | ProtocolIE-ID ::= 566 |
| id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD | ProtocolIE-ID ::= 567 |
| id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD | ProtocolIE-ID ::= 568 |
| id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD | ProtocolIE-ID ::= 569 |
| id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD | ProtocolIE-ID ::= 570 |
| id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD | ProtocolIE-ID ::= 571 |
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| id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD | ProtocolIE-ID ::= 573 |
| id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD | ProtocolIE-ID ::= 574 |
| id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD | ProtocolIE-ID ::= 575 |
| id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD | ProtocolIE-ID ::= 576 |
| id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD | ProtocolIE-ID ::= 577 |
| id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD | ProtocolIE-ID ::= 578 |
| id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD | ProtocolIE-ID ::= 579 |
| id-Initial-DL-Power-TimeslotLCR-InformationItem | ProtocolIE-ID ::= 580 |
| id-Maximum-DL-Power-TimeslotLCR-InformationItem | ProtocolIE-ID ::= 581 |
| id-Minimum-DL-Power-TimeslotLCR-InformationItem | ProtocolIE-ID ::= 582 |
| id-HS-DSCHProvidedBitRateValueInformation | ProtocolIE-ID ::= 583 |
| id-HS-DSCHRequiredPowerValueInformation | ProtocolIE-ID ::= 585 |
| To the desired of the section of the | 1100000111 10 303 |

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id-HS-DSCHRequiredPowerValue
                                                                     ProtocolIE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission
                                                                     ProtocolTE-TD ··= 587
id-HS-SICH-Reception-Quality
                                                                    ProtocolIE-ID ::= 588
id-HS-SICH-Reception-Quality-Measurement-Value
                                                                    ProtocolIE-ID ::= 589
id-HSSICH-Info-DM-Rort
                                                                     ProtocolIE-ID ::= 590
id-HSSICH-Info-DM-Rgst
                                                                    ProtocolIE-ID ::= 591
id-HSSICH-Info-DM-Rsp
                                                                     ProtocolIE-ID ::= 592
id-Best-Cell-Portions-Value
                                                                    ProtocolIE-ID ::= 593
id-Primary-CPICH-Usage-for-Channel-Estimation
                                                                     ProtocolTE-TD ::= 594
id-Secondary-CPICH-Information-Change
                                                                    ProtocolIE-ID ::= 595
id-NumberOfReportedCellPortions
                                                                    ProtocolIE-ID ::= 596
id-CellPortion-InformationItem-Cell-SetupRqstFDD
                                                                    ProtocolIE-ID ::= 597
id-CellPortion-InformationList-Cell-SetupRgstFDD
                                                                    ProtocolIE-ID ::= 598
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD
                                                                     ProtocolIE-ID ::= 599
id-Secondary-CPICH-Information
                                                                    ProtocolIE-ID ::= 600
id-Received-total-wide-band-power-For-CellPortion
                                                                     ProtocolTE-ID ··= 601
id-Unidirectional-DCH-Indicator
                                                                    ProtocolIE-ID ::= 602
id-TimingAdjustmentValueLCR
                                                                    ProtocolIE-ID ::= 603
id-multipleRL-dl-DPCH-InformationList
                                                                    ProtocolIE-ID ::= 604
id-multipleRL-dl-DPCH-InformationModifyList
                                                                    ProtocolIE-ID ::= 605
id-multipleRL-ul-DPCH-InformationList
                                                                     ProtocolIE-ID ::= 606
id-multipleRL-ul-DPCH-InformationModifyList
                                                                    ProtocolIE-ID ::= 607
id-RI-ID
                                                                     ProtocolTE-ID ::= 608
id-SAT-Info-Almanac-ExtItem
                                                                    ProtocolIE-ID ::= 609
id-HSDPA-Capability
                                                                    ProtocolIE-ID ::= 610
id-HSDSCH-Resources-Information-AuditRsp
                                                                     ProtocolIE-ID ::= 611
id-HSDSCH-Resources-Information-ResourceStatusInd
                                                                    ProtocolIE-ID ::= 612
id-HSDSCH-MACdFlows-to-Add
                                                                     ProtocolIE-ID ::= 613
id-HSDSCH-MACdFlows-to-Delete
                                                                    ProtocolIE-ID ::= 614
id-HSDSCH-Information-to-Modify-Unsynchronised
                                                                     ProtocolIE-ID ::= 615
                                                                    ProtocolIE-ID ::= 616
id-TnlOos
id-Received-total-wide-band-power-For-CellPortion-Value
                                                                     ProtocolIE-ID ::= 617
id-Transmitted-Carrier-Power-For-CellPortion
                                                                    ProtocolIE-ID ::= 618
id-Transmitted-Carrier-Power-For-CellPortion-Value
                                                                    ProtocolIE-ID ::= 619
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion
                                                                                                                     ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue
                                                                                                                    ProtocolIE-ID ::= 621
id-UpPTSInterferenceValue
                                                                     ProtocolIE-ID ::= 622
id-PrimaryCCPCH-RSCP-Delta
                                                                    ProtocolIE-ID ::= 623
id-MeasurementRecoveryBehavior
                                                                    ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator
                                                                     ProtocolIE-ID ::= 625
id-MeasurementRecoverySupportIndicator
                                                                    ProtocolIE-ID ::= 626
id-Tstd-indicator
                                                                     ProtocolIE-ID ::= 627
id-multiple-RL-Information-RL-ReconfPrepTDD
                                                                    ProtocolIE-ID ::= 628
id-multiple-RL-Information-RL-ReconfRqstTDD
                                                                     ProtocolTE-ID ::= 629
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD
                                                                    ProtocolIE-ID ::= 630
id-F-DPCH-Information-RL-ReconfPrepFDD
                                                                    ProtocolIE-ID ::= 631
id-F-DPCH-Information-RL-SetupRgstFDD
                                                                    ProtocolIE-ID ::= 632
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD
                                                                    ProtocolIE-ID ::= 633
id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD
                                                                    ProtocolIE-ID ::= 634
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRgstTDD
                                                                    ProtocolIE-ID ::= 635
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRgstTDD
                                                                     ProtocolIE-ID ::= 636
id-MICH-CFN
                                                                    ProtocolIE-ID ::= 637
id-MICH-Information-AuditRsp
                                                                     ProtocolIE-ID ::= 638
id-MICH-Information-ResourceStatusInd
                                                                     ProtocolIE-ID ::= 639
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|--|-----------------------|
| id-MICH-Parameters-CTCH-ReconfRqstFDD | ProtocolIE-ID ::= 640 |
| id-MICH-Parameters-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 641 |
| id-MICH-Parameters-CTCH-SetupRqstFDD | ProtocolIE-ID ::= 642 |
| id-MICH-Parameters-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 643 |
| id-Modification-Period | ProtocolIE-ID ::= 644 |
| id-NI-Information-NotifUpdateCmd | ProtocolIE-ID ::= 645 |
| id-S-CCPCH-InformationListExt-AuditRsp | ProtocolIE-ID ::= 646 |
| id-S-CCPCH-InformationListExt-ResourceStatusInd | ProtocolIE-ID ::= 647 |
| id-S-CCPCH-LCR-InformationListExt-AuditRsp | ProtocolIE-ID ::= 648 |
| id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd | ProtocolIE-ID ::= 649 |
| id-HARQ-Preamble-Mode | ProtocolIE-ID ::= 650 |
| id-Initial-DL-DPCH-TimingAdjustment | ProtocolIE-ID ::= 651 |
| id-Initial-DL-DPCH-TimingAdjustment-Allowed | ProtocolIE-ID ::= 652 |
| id-DLTransmissionBranchLoadValue | ProtocolIE-ID ::= 653 |
| id-Power-Local-Cell-Group-choice-CM-Rqst | ProtocolIE-ID ::= 654 |
| id-Power-Local-Cell-Group-choice-CM-Rsp | ProtocolIE-ID ::= 655 |
| id-Power-Local-Cell-Group-choice-CM-Rprt | ProtocolIE-ID ::= 656 |
| id-SynchronisationIndicator | ProtocolIE-ID ::= 657 |
| id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRqst | ProtocolIE-ID ::= 658 |
| id-Unused-ProtocolIE-ID-659 | ProtocolIE-ID ::= 659 |
| id-HS-DSCHRequiredPowerValue-For-Cell-Portion | ProtocolIE-ID ::= 660 |
| id-HS-DSCHRequiredPowerValueInformation-For-CellPortion | ProtocolIE-ID ::= 661 |
| id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion | ProtocolIE-ID ::= 662 |
| id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code | ProtocolIE-ID ::= 663 |
| id-E-AGCH-FDD-Code-Information | ProtocolIE-ID ::= 664 |
| id-E-DCH-Capability | ProtocolIE-ID ::= 665 |
| id-E-DCH-FDD-DL-Control-Channel-Information | ProtocolIE-ID ::= 666 |
| id-E-DCH-FDD-Information | ProtocolIE-ID ::= 667 |
| id-E-DCH-FDD-Information-Response | ProtocolIE-ID ::= 668 |
| id-E-DCH-FDD-Information-to-Modify | ProtocolIE-ID ::= 669 |
| id-E-DCH-MACdFlows-to-Add | ProtocolIE-ID ::= 670 |
| id-E-DCH-MACdFlows-to-Delete | ProtocolIE-ID ::= 671 |
| id-E-DCH-Resources-Information-AuditRsp | ProtocolIE-ID ::= 672 |
| id-E-DCH-Resources-Information-ResourceStatusInd | ProtocolIE-ID ::= 673 |
| id-E-DCH-RL-Indication | ProtocolIE-ID ::= 674 |
| id-E-DCH-RL-Set-ID | ProtocolIE-ID ::= 675 |
| id-E-DPCH-Information-RL-ReconfPrepFDD | ProtocolIE-ID ::= 676 |
| id-E-DPCH-Information-RL-SetupRqstFDD | ProtocolIE-ID ::= 677 |
| id-E-RGCH-E-HICH-FDD-Code-Information | ProtocolIE-ID ::= 678 |
| id-Serving-E-DCH-RL-ID | ProtocolIE-ID ::= 679 |
| id-UL-DPDCH-Indicator-For-E-DCH-Operation | ProtocolIE-ID ::= 680 |
| id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRqstFDD | ProtocolIE-ID ::= 681 |
| id-E-DPCH-Information-RL-ReconfRgstFDD | ProtocolIE-ID ::= 682 |
| id-Maximum-Target-ReceivedTotalWideBandPower | ProtocolIE-ID ::= 683 |
| id-E-DCHProvidedBitRateValueInformation | ProtocolIE-ID ::= 684 |
| id-HARO-Preamble-Mode-Activation-Indicator | ProtocolIE-ID ::= 685 |
| id-RL-Specific-E-DCH-Info | ProtocolIE-ID ::= 686 |
| id-E-DCH-CapacityConsumptionLaw | ProtocolIE-ID ::= 687 |
| id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp | ProtocolIE-ID ::= 688 |
| id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp | ProtocolIE-ID ::= 689 |
| id-E-DCH-RearrangeList-Bearer-RearrangeInd | ProtocolIE-ID ::= 690 |
| id-Unused-ProtocolIE-ID-691 | ProtocolIE-ID ::= 691 |
| id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRqstTDD | ProtocolIE-ID ::= 692 |
| id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio | ProtocolIE-ID ::= 693 |
| Ta larget Monderving Den to tocal-Eben-rower-Macro | 11000001111 111 093 |

| il Call Danking Tufangaking Thomas Call Danks FD Cart | D TD 604 |
|---|--|
| id-CellPortion-InformationItem-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 694 |
| id-CellPortion-InformationList-Cell-ReconfRqstFDD | ProtocolIE-ID ::= 695 |
| id-multiple-PUSCH-InfoList-DM-Rsp | ProtocolIE-ID ::= 696 |
| id-multiple-PUSCH-InfoList-DM-Rprt | ProtocolIE-ID ::= 697 |
| id-Reference-ReceivedTotalWideBandPower | ProtocolIE-ID ::= 698 |
| id-E-DCH-Serving-Cell-Change-Info-Response | ProtocolIE-ID ::= 699 |
| id-HS-DSCH-Serving-Cell-Change-Info | ProtocolIE-ID ::= 700 |
| id-HS-DSCH-Serving-Cell-Change-Info-Response | ProtocolIE-ID ::= 701 |
| id-Serving-Cell-Change-CFN | ProtocolIE-ID ::= 702 |
| id-E-DCH-HARQ-Combining-Capability | ProtocolIE-ID ::= 703 |
| id-E-DCH-TTI2ms-Capability | ProtocolIE-ID ::= 704 |
| id-E-DCH-SF-Capability | ProtocolIE-ID ::= 705 |
| id-E-DCH-FDD-Update-Information | ProtocolIE-ID ::= 706 |
| id-F-DPCH-Capability | ProtocolIE-ID ::= 707 |
| id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue | ProtocolIE-ID ::= 708 |
| id-HSSICH-SIRTarget | ProtocolIE-ID ::= 709 |
| id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp | ProtocolIE-ID ::= 710 |
| id-PLCCH-Information-AuditRsp | ProtocolIE-ID ::= 711 |
| id-PLCCH-Information-ResourceStatusInd | ProtocolIE-ID ::= 712 |
| id-PLCCH-Information-RL-ReconfPrepTDDLCR | ProtocolIE-ID ::= 713 |
| id-PLCCH-Information-UL-TimeslotLCR-Info | ProtocolIE-ID ::= 714 |
| id-PLCCH-InformationList-AuditRsp | ProtocolIE-ID ::= 715 |
| id-PLCCH-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 716 |
| id-PLCCH-Parameters-CTCH-ReconfRgstTDD | ProtocolIE-ID ::= 717 |
| id-S-CCPCH-768-Parameters-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 718 |
| id-PICH-768-Parameters-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 719 |
| id-PRACH-768-Parameters-CTCH-SetupRqstTDD | ProtocolIE-ID ::= 720 |
| id-S-CCPCH-768-Parameters-CTCH-ReconfRgstTDD | ProtocolIE-ID ::= 721 |
| id-PICH-768-Parameters-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 722 |
| id-MICH-768-Parameters-CTCH-ReconfRqstTDD | ProtocolIE-ID ::= 722 |
| id-CommonPhysicalChannelID768-CommonTrChDeletionReg | ProtocolIE-ID ::= 723 ProtocolIE-ID ::= 724 |
| id-S-CCPCH-768-InformationList-AuditRsp | ProtocolIE-ID ::= 724 ProtocolIE-ID ::= 725 |
| id-S-CCPCH-768-Information-AuditRsp | ProtocoliE-ID ::= 725 ProtocolIE-ID ::= 726 |
| <u>-</u> | ProtocoliE-ID ::= 726 ProtocolIE-ID ::= 727 |
| id-neighbouringTDDCellMeasurementInformation768 | |
| id-PCCPCH-768-Information-Cell-SetupRqstTDD | ProtocolIE-ID ::= 728 |
| id-SCH-768-Information-Cell-SetupRqstTDD | ProtocolIE-ID ::= 729 |
| id-SCH-768-Information-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 730 |
| id-PCCPCH-768-Information-Cell-ReconfRqstTDD | ProtocolIE-ID ::= 731 |
| id-P-CCPCH-768-Information-AuditRsp | ProtocolIE-ID ::= 732 |
| id-PICH-768-Information-AuditRsp | ProtocolIE-ID ::= 733 |
| id-PRACH-768-InformationList-AuditRsp | ProtocolIE-ID ::= 734 |
| id-SCH-768-Information-AuditRsp | ProtocolIE-ID ::= 735 |
| id-MICH-768-Information-AuditRsp | ProtocolIE-ID ::= 736 |
| id-PRACH-768-Information | ProtocolIE-ID ::= 737 |
| id-S-CCPCH-768-Information-ResourceStatusInd | ProtocolIE-ID ::= 738 |
| id-P-CCPCH-768-Information-ResourceStatusInd | ProtocolIE-ID ::= 739 |
| id-PICH-768-Information-ResourceStatusInd | ProtocolIE-ID ::= 740 |
| id-PRACH-768-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 741 |
| id-SCH-768-Information-ResourceStatusInd | ProtocolIE-ID ::= 742 |
| id-MICH-768-Information-ResourceStatusInd | ProtocolIE-ID ::= 743 |
| id-S-CCPCH-768-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 744 |
| id-UL-DPCH-768-Information-RL-SetupRgstTDD | ProtocolIE-ID ::= 745 |
| id-DL-DPCH-768-Information-RL-SetupRqstTDD | ProtocolIE-ID ::= 746 |
| id-DL-DPCH-InformationItem-768-RL-AdditionRqstTDD | ProtocolIE-ID ::= 747 |
| | |

| id-UL-DPCH-InformationItem-768-RL-AdditionRqstTDD | ProtocolIE-ID ::= 748 |
|--|---|
| id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 749 |
| id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD | ProtocolIE-ID ::= 750 |
| id-UL-DPCH-768-InformationModify-AddItem | ProtocolIE-ID ::= 751 |
| id-UL-DPCH-768-InformationModify-AddList | ProtocolIE-ID ::= 752 |
| id-UL-Timeslot768-Information-RL-ReconfPrepTDD | ProtocolIE-ID ::= 753 |
| id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD | ProtocolIE-ID ::= 754 |
| id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 755 |
| id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD | ProtocolIE-ID ::= 756 |
| id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 757 |
| id-DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD | ProtocolIE-ID ::= 758 |
| id-DPCH-ID768-DM-Rqst | ProtocolIE-ID ::= 759 |
| id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp | ProtocolIE-ID ::= 760 |
| id-DPCH-ID768-DM-Rsp | ProtocolIE-ID ::= 761 |
| id-Rx-Timing-Deviation-Value-768 | ProtocolIE-ID ::= 762 |
| id-DPCH-ID768-DM-Rprt | ProtocolIE-ID ::= 763 |
| id-PDSCH-AddInformation-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 764 |
| id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 765 |
| id-PUSCH-AddInformation-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 766 |
| id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 767 |
| id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 768 |
| id-hS-SCCH-Information-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 769 |
| id-hS-SCCH-InformationModify-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 770 |
| id-hsSCCH-Specific-Information-ResponseTDD768 | ProtocolIE-ID ::= 771 |
| id-E-DPCH-Information-RL-AdditionRegFDD | ProtocolIE-ID ::= 772 |
| id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR | ProtocolIE-ID ::= 775 |
| id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR | ProtocolIE-ID ::= 780 |
| id-E-DCH-PowerOffset-for-SchedulingInfo | ProtocolIE-ID ::= 782 |
| id-HSDSCH-Configured-Indicator | ProtocolIE-ID ::= 783 |
| id-Rx-Timing-Deviation-Value-384-ext | ProtocolIE-ID ::= 786 |
| id-RTWP-ReportingIndicator | ProtocolIE-ID ::= 787 |
| id-RTWP-CellPortion-ReportingIndicator | ProtocolIE-ID ::= 788 |
| id-Received-Scheduled-EDCH-Power-Share-Value | ProtocolIE-ID ::= 789 |
| id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value | ProtocolIE-ID ::= 790 |
| id-Received-Scheduled-EDCH-Power-Share | ProtocolIE-ID ::= 791 |
| id-Received-Scheduled-EDCH-Power-Share-For-CellPortion | ProtocolIE-ID ::= 792 |
| id-tFCI-Presence | ProtocolIE-ID ::= 793 |
| id-HSSICH-TPC-StepSize | ProtocolIE-ID ::= 794 |
| id-E-RUCCH-InformationList-AuditRsp | ProtocolIE-ID ::= 795 |
| id-E-RUCCH-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 796 |
| id-E-DCH-TDD-CapacityConsumptionLaw | ProtocolIE-ID ::= 797 |
| id-E-RUCCH-Information | ProtocolIE-ID ::= 798 |
| id-E-ROCCH-Information | ProtocolIE-ID ::= 799 |
| id-E-DCH-Information-Response | ProtocoliE-ID ::= 799 ProtocoliE-ID ::= 800 |
| id-E-DCH-Information-Reconfig | ProtocolIE-ID ::= 800 ProtocolIE-ID ::= 801 |
| <u> </u> | ProtocolIE-ID ::= 801 ProtocolIE-ID ::= 802 |
| id-E-PUCH-Information-PSCH-ReconfRqst | |
| id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst | ProtocolIE-ID ::= 803 ProtocolIE-ID ::= 804 |
| id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst | |
| id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst | ProtocolIE-ID ::= 805 |
| id-E-HICH-Information-PSCH-ReconfRqst | ProtocolIE-ID ::= 806 |
| id-E-HICH-TimeOffset | ProtocolIE-ID ::= 807 |
| id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells | ProtocolIE-ID ::= 808 |
| id-E-DCH-Serving-RL-ID | ProtocolIE-ID ::= 809 |
| id-E-RUCCH-768-InformationList-AuditRsp | ProtocolIE-ID ::= 810 |
| | |

| id-E-RUCCH-768-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 811 |
|--|---|
| id-E-RUCCH-768-Information | ProtocolIE-ID ::= 812 |
| id-E-DCH-768-Information | ProtocolIE-ID ::= 813 |
| id-E-DCH-768-Information-Reconfig | ProtocolIE-ID ::= 814 |
| id-E-PUCH-Information-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 815 |
| id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 816 |
| id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 817 |
| id-E-HICH-Information-768-PSCH-ReconfRqst | ProtocolIE-ID ::= 818 |
| id-ExtendedPropagationDelay | ProtocolIE-ID ::= 819 |
| id-Extended-Round-Trip-Time-Value | ProtocolIE-ID ::= 820 |
| id-AlternativeFormatReportingIndicator | ProtocolIE-ID ::= 821 |
| id-DCH-Indicator-For-E-DCH-HSDPA-Operation | ProtocolIE-ID ::= 822 |
| id-Reference-ReceivedTotalWideBandPowerReporting | ProtocolIE-ID ::= 823 |
| id-Reference-ReceivedTotalWideBandPowerSupportIndicator | ProtocolIE-ID ::= 824 |
| id-ueCapability-Info | ProtocolIE-ID ::= 825 |
| id-MAChs-ResetIndicator | ProtocolIE-ID ::= 826 |
| id-Fast-Reconfiguration-Mode | ProtocolIE-ID ::= 827 |
| id-Fast-Reconfiguration-Permission | ProtocolIE-ID ::= 828 |
| id-BroadcastReference | ProtocolIE-ID ::= 829 |
| id-BroadcastCommonTransportBearerIndication | ProtocolIE-ID ::= 830 |
| id-ContinuousPacketConnectivityDTX-DRX-Capability | ProtocolIE-ID ::= 831 |
| id-ContinuousPacketConnectivityDTX-DRX-Information | ProtocolIE-ID ::= 832 |
| id-ContinuousPacketConnectivityHS-SCCH-less-Capability | ProtocolIE-ID ::= 833 |
| id-ContinuousPacketConnectivityHS-SCCH-less-Information | ProtocolIE-ID ::= 834 |
| id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response | ProtocolIE-ID ::= 835 |
| id-CPC-Information | ProtocolIE-ID ::= 836 |
| id-MIMO-Capability | ProtocolIE-ID ::= 837 |
| id-MIMO-PilotConfiguration | ProtocolIE-ID ::= 838 |
| id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD | ProtocolIE-ID ::= 841 |
| id-MBSFN-Cell-ParameterID-Cell-ReconfRgstTDD | ProtocolIE-ID ::= 842 |
| id-S-CCPCH-Modulation | ProtocolIE-ID ::= 843 |
| id-HS-PDSCH-Code-Change-Grant | ProtocolIE-ID ::= 844 |
| id-HS-PDSCH-Code-Change-Indicator | ProtocolIE-ID ::= 845 |
| id-SYNC-UL-Partition-LCR | ProtocolIE-ID ::= 846 |
| id-E-DCH-LCR-Information | ProtocolIE-ID ::= 847 |
| id-E-DCH-LCR-Information-Reconfig | ProtocolIE-ID ::= 848 |
| id-E-PUCH-Information-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 852 |
| id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 853 |
| id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 854 |
| id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 855 |
| id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 856 |
| id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRgst | ProtocolIE-ID ::= 857 |
| id-E-HICH-TimeOffsetLCR | ProtocolIE-ID ::= 858 |
| id-SixtyfourQAM-DL-Capability | ProtocolIE-ID ::= 860 |
| id-SixteenQAM-UL-Capability | ProtocolIE-ID ::= 861 |
| id-HSDSCH-MACdPDU-SizeCapability | ProtocolIE-ID ::= 864 |
| id-HSDSCH-MACdPDUSizeFormat | ProtocolIE-ID ::= 865 |
| id-MaximumMACdPDU-SizeExtended | ProtocolIE-ID ::= 866 |
| id-F-DPCH-SlotFormat | ProtocolIE-ID ::= 870 |
| id-F-DPCH-SlotFormatCapability | ProtocolIE-ID ::= 871 |
| id-LCRTDD-uplink-Physical-Channel-Capability | ProtocoliE-ID ::= 871 |
| id-Extended-RNC-ID | ProtocoliE-ID ::= 873 |
| id-Max-UE-DTX-Cycle | ProtocoliE-ID ::= 874 |
| id-Secondary-CCPCH-SlotFormat-Extended | ProtocoliE-ID ::= 874 ProtocoliE-ID ::= 876 |
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id-MBSFN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR
                                                                     ProtocolIE-ID ::= 878
id-MBSFN-Only-Mode-Capability
                                                                     ProtocolIE-ID ::= 879
id-Time-Slot-Parameter-ID
                                                                     ProtocolIE-ID ::= 880
id-Additional-failed-HS-SICH
                                                                     ProtocolIE-ID ::= 881
id-Additional-missed-HS-SICH
                                                                     ProtocolIE-ID ::= 882
id-Additional-total-HS-SICH
                                                                     ProtocolIE-ID ::= 883
id-Additional-HS-SICH-Reception-Ouality-Measurement-Value
                                                                     ProtocolIE-ID ::= 884
                                                                     ProtocolIE-ID ::= 887
id-GANSS-Common-Data
id-GANSS-Information
                                                                     ProtocolTE-TD ::= 888
id-GANSS-Generic-Data
                                                                     ProtocolIE-ID ::= 889
id-TUTRANGANSSMeasurementThresholdInformation
                                                                     ProtocolIE-ID ::= 890
id-TUTRANGANSSMeasurementValueInformation
                                                                     ProtocolIE-ID ::= 891
                                                                     ProtocolIE-ID ::= 892
id-ModulationPO-MBSFN
id-Enhanced-FACH-Capability
                                                                     ProtocolIE-ID ::= 895
id-Enhanced-PCH-Capability
                                                                     ProtocolIE-ID ::= 896
id-HSDSCH-Common-System-InformationFDD
                                                                     ProtocolIE-ID ::= 897
id-HSDSCH-Common-System-Information-ResponseFDD
                                                                     ProtocolIE-ID ::= 898
id-HSDSCH-Paging-System-InformationFDD
                                                                     ProtocolIE-ID ::= 899
id-HSDSCH-Paging-System-Information-ResponseFDD
                                                                     ProtocolIE-ID ::= 900
id-MBMS-Capability
                                                                     ProtocolIE-ID ::= 901
id-Ext-Reference-E-TFCI-PO
                                                                     ProtocolTE-ID ::= 902
id-Ext-Max-Bits-MACe-PDU-non-scheduled
                                                                     ProtocolIE-ID ::= 903
id-HARQ-MemoryPartitioningInfoExtForMIMO
                                                                     ProtocolTE-TD ::= 904
id-MIMO-ActivationIndicator
                                                                     ProtocolIE-ID ::= 905
id-MIMO-Mode-Indicator
                                                                     ProtocolIE-ID ::= 906
id-MIMO-N-M-Ratio
                                                                     ProtocolIE-ID ::= 907
id-IPMulticastIndication
                                                                     ProtocolIE-ID ::= 908
id-IPMulticastDataBearerIndication
                                                                     ProtocolIE-ID ::= 909
id-TransportBearerNotSetupIndicator
                                                                     ProtocolIE-ID ::= 910
id-TransportBearerNotRequestedIndicator
                                                                     ProtocolIE-ID ::= 911
id-TimeSlotConfigurationList-LCR-CTCH-SetupRgstTDD
                                                                     ProtocolIE-ID ::= 912
id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp
                                                                     ProtocolIE-ID ::= 913
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp
                                                                     ProtocolIE-ID ::= 914
id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD
                                                                     ProtocolIE-ID ::= 915
id-UARFCN-Adjustment
                                                                     ProtocolIE-ID ::= 916
id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd
                                                                     ProtocolIE-ID ::= 917
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd
                                                                         ProtocolIE-ID ::= 918
id-UPPCHPositionLCR
                                                                     ProtocolIE-ID ::= 919
id-UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD
                                                                     ProtocolIE-ID ::= 920
id-UPPCH-LCR-InformationList-AuditRsp
                                                                     ProtocolIE-ID ::= 921
id-UPPCH-LCR-InformationItem-AuditRsp
                                                                     ProtocolIE-ID ::= 922
id-UPPCH-LCR-InformationList-ResourceStatusInd
                                                                     ProtocolIE-ID ::= 923
id-UPPCH-LCR-InformationItem-ResourceStatusInd
                                                                     ProtocolIE-ID ::= 924
id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                         ProtocolIE-ID ::= 925
id-number-Of-Supported-Carriers
                                                                     ProtocolIE-ID ::= 926
id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR
                                                                     ProtocolIE-ID ::= 927
id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD
                                                                     ProtocolIE-ID ::= 928
id-multipleFreq-HS-DSCH-Resources-InformationList-AuditRsp
                                                                     ProtocolIE-ID ::= 929
id-multipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd ProtocolIE-ID ::= 930
id-UARFCNSpecificCauseList
                                                                     ProtocolIE-ID ::= 931
id-tSN-Length
                                                                     ProtocolIE-ID ::= 932
id-MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst
                                                                            ProtocolIE-ID ::= 933
id-multicarrier-number
                                                                     ProtocolIE-ID ::= 934
id-Extended-HS-SCCH-ID
                                                                     ProtocolIE-ID ::= 935
```

| id-Extended-HS-SICH-ID | ProtocolIE-ID ::= 936 |
|--|---|
| id-HSSICH-InfoExt-DM-Rqst | ProtocolIE-ID ::= 937 |
| id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst | ProtocolIE-ID ::= 938 |
| id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 939 |
| id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst | ProtocolIE-ID ::= 940 |
| id-PowerControlGAP | ProtocolIE-ID ::= 941 |
| id-MBSFN-SpecialTimeSlot-LCR | ProtocolIE-ID ::= 942 |
| | ProtocoliE-ID ::= 942 ProtocoliE-ID ::= 943 |
| <pre>id-Common-MACFlows-to-DeleteFDD id-Paqing-MACFlows-to-DeleteFDD</pre> | ProtocolIE-ID ::= 943 |
| id-E-TFCI-Boost-Information | ProtocoliE-ID ::= 944 ProtocoliE-ID ::= 945 |
| | ProtocoliE-ID ::= 945 ProtocoliE-ID ::= 946 |
| id-SixteenQAM-UL-Operation-Indicator | ProtocolIE-ID ::= 946 ProtocolIE-ID ::= 947 |
| id-SixtyfourQAM-UsageAllowedIndicator | |
| id-SixtyfourQAM-DL-UsageIndicator | ProtocolIE-ID ::= 948 |
| id-Default-Serving-Grant-in-DTX-Cycle2 | ProtocolIE-ID ::= 949 |
| id-Maximum-Target-ReceivedTotalWideBandPower-LCR | ProtocolIE-ID ::= 950 |
| id-E-DPDCH-PowerInterpolation | ProtocolIE-ID ::= 951 |
| id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory | ProtocolIE-ID ::= 952 |
| id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp | ProtocolIE-ID ::= 953 |
| id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd | ProtocolIE-ID ::= 954 |
| id-MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst | |
| id-MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst | |
| id-Extended-E-HICH-ID-TDD | ProtocolIE-ID ::= 957 |
| id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator | ProtocolIE-ID ::= 958 |
| id-E-DCH-MACdPDU-SizeCapability | ProtocolIE-ID ::= 959 |
| id-E-DCH-MACdPDUSizeFormat | ProtocolIE-ID ::= 960 |
| id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD | ProtocolIE-ID ::= 961 |
| id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCRTDD | ProtocolIE-ID ::= 962 |
| id-E-HICH-TimeOffset-Extension | ProtocolIE-ID ::= 963 |
| id-MultipleFreq-E-HICH-TimeOffsetLCR | ProtocolIE-ID ::= 964 |
| id-E-PUCH-PowerControlGAP | ProtocolIE-ID ::= 965 |
| id-HSDSCH-TBSizeTableIndicator | ProtocolIE-ID ::= 966 |
| id-E-DCH-DL-Control-Channel-Change-Information | ProtocolIE-ID ::= 967 |
| id-E-DCH-DL-Control-Channel-Grant-Information | ProtocolIE-ID ::= 968 |
| id-DGANSS-Corrections-Req | ProtocolIE-ID ::= 969 |
| id-UE-with-enhanced-HS-SCCH-support-indicator | ProtocolIE-ID ::= 970 |
| id-AdditionalTimeSlotListLCR | ProtocolIE-ID ::= 971 |
| id-AdditionalMeasurementValueList | ProtocolIE-ID ::= 972 |
| id-E-AGCH-Table-Choice | ProtocolIE-ID ::= 978 |
| id-PLCCH-parameters | ProtocolIE-ID ::= 981 |
| id-E-RUCCH-parameters | ProtocolIE-ID ::= 982 |
| id-E-RUCCH-768-parameters | ProtocolIE-ID ::= 983 |
| id-HS-Cause | ProtocolIE-ID ::= 984 |
| id-E-Cause | ProtocolIE-ID ::= 985 |
| id-Common-EDCH-Capability | ProtocolIE-ID ::= 987 |
| id-E-AI-Capability | ProtocolIE-ID ::= 988 |
| id-Common-EDCH-System-InformationFDD | ProtocolIE-ID ::= 989 |
| id-Common-UL-MACFlows-to-DeleteFDD | ProtocolIE-ID ::= 990 |
| id-Common-EDCH-MACdFlows-to-DeleteFDD | ProtocolIE-ID ::= 991 |
| id-Common-EDCH-System-Information-ResponseFDD | ProtocolIE-ID ::= 992 |
| id-Cell-ERNTI-Status-Information | ProtocolIE-ID ::= 993 |
| id-Enhanced-UE-DRX-Capability | ProtocolIE-ID ::= 994 |
| id-Enhanced-UE-DRX-InformationFDD | ProtocolIE-ID ::= 995 |
| id-TransportBearerRequestIndicator | ProtocolIE-ID ::= 996 |
| id-SixtyfourQAM-DL-MIMO-Combined-Capability | ProtocolIE-ID ::= 997 |
| Ta Streyteaten DB mino combined capability | 11000001111 111 391 |

| id-E-RNTI | ProtocolIE-ID ::= 998 |
|---|---|
| id-MinimumReducedE-DPDCH-GainFactor | ProtocolIE-ID ::= 999 |
| id-GANSS-Time-ID | ProtocolIE-ID ::= 399 ProtocolIE-ID ::= 1000 |
| | |
| id-GANSS-AddIonoModelReq | ProtocolIE-ID ::= 1001 |
| id-GANSS-EarthOrientParaReq | ProtocolIE-ID ::= 1002 |
| id-GANSS-AddNavigationModelsReq | ProtocolIE-ID ::= 1003 |
| id-GANSS-AddUTCModelsReq | ProtocolIE-ID ::= 1004 |
| id-GANSS-AuxInfoReq | ProtocolIE-ID ::= 1005 |
| id-GANSS-SBAS-ID | ProtocolIE-ID ::= 1006 |
| id-GANSS-ID | ProtocolIE-ID ::= 1007 |
| id-GANSS-Additional-Ionospheric-Model | ProtocolIE-ID ::= 1008 |
| id-GANSS-Earth-Orientation-Parameters | ProtocolIE-ID ::= 1009 |
| id-GANSS-Additional-Time-Models | ProtocolIE-ID ::= 1010 |
| id-GANSS-Additional-Navigation-Models | ProtocolIE-ID ::= 1011 |
| id-GANSS-Additional-UTC-Models | ProtocolIE-ID ::= 1012 |
| id-GANSS-Auxiliary-Information | ProtocolIE-ID ::= 1013 |
| id-ERACH-CM-Rqst | ProtocolIE-ID ::= 1014 |
| id-ERACH-CM-Rsp | ProtocolIE-ID ::= 1015 |
| id-ERACH-CM-Rprt | ProtocolIE-ID ::= 1016 |
| id-EDCH-RACH-Report-Value | ProtocolIE-ID ::= 1017 |
| id-EDCH-RACH-Report-IncrDecrThres | ProtocolIE-ID ::= 1018 |
| id-EDCH-RACH-Report-ThresholdInformation | ProtocolIE-ID ::= 1019 |
| id-E-DPCCH-Power-Boosting-Capability | ProtocolIE-ID ::= 1020 |
| id-HSDSCH-Common-System-InformationLCR | ProtocolIE-ID ::= 1021 |
| id-HSDSCH-Common-System-Information-ResponseLCR | ProtocolIE-ID ::= 1222 |
| id-HSDSCH-Paging-System-InformationLCR | ProtocolIE-ID ::= 1023 |
| id-HSDSCH-Paging-System-Information-ResponseLCR | ProtocolIE-ID ::= 1024 |
| id-Common-MACFlows-to-DeleteLCR | ProtocolIE-ID ::= 1025 |
| id-Paging-MACFlows-to-DeleteLCR | ProtocolIE-ID ::= 1026 |
| id-Common-EDCH-System-InformationLCR | ProtocolIE-ID ::= 1027 |
| id-Common-UL-MACFlows-to-DeleteLCR | ProtocolIE-ID ::= 1028 |
| id-Common-EDCH-MACdFlows-to-DeleteLCR | ProtocolIE-ID ::= 1029 |
| id-Common-EDCH-System-Information-ResponseLCR | ProtocolIE-ID ::= 1030 |
| id-Enhanced-UE-DRX-CapabilityLCR | ProtocolIE-ID ::= 1031 |
| id-Enhanced-UE-DRX-InformationLCR | ProtocolIE-ID ::= 1032 |
| id-HSDSCH-PreconfigurationSetup | ProtocolIE-ID ::= 1032 |
| id-HSDSCH-PreconfigurationInfo | ProtocolIE-ID ::= 1034 |
| id-NoOfTargetCellHS-SCCH-Order | ProtocolIE-ID ::= 1034 ProtocolIE-ID ::= 1035 |
| id-EnhancedHSServingCC-Abort | ProtocolIE-ID ::= 1035 |
| id-Additional-HS-Cell-Information-RL-Setup | ProtocolIE-ID ::= 1036 ProtocolIE-ID ::= 1037 |
| id-Additional-HS-Cell-Information-Response | ProtocolIE-ID ::= 1037 ProtocolIE-ID ::= 1038 |
| id-Additional-HS-Cell-Information-RL-Addition | ProtocolIE-ID ::= 1036 ProtocolIE-ID ::= 1039 |
| id-Additional-HS-Cell-Change-Information-Response | ProtocolIE-ID ::= 1039 ProtocolIE-ID ::= 1040 |
| <u> </u> | ProtocolIE-ID ::= 1040 ProtocolIE-ID ::= 1041 |
| id-Additional-HS-Cell-Information-RL-Reconf-Prep | |
| id-Additional-HS-Cell-Information-RL-Reconf-Req | ProtocolIE-ID ::= 1042 |
| id-Additional-HS-Cell-Information-RL-Param-Upd | ProtocolIE-ID ::= 1043 |
| id-Multi-Cell-Capability-Info | ProtocolIE-ID ::= 1044 |
| id-IMB-Parameters | ProtocolIE-ID ::= 1045 |
| id-MACes-Maximum-Bitrate-LCR | ProtocolIE-ID ::= 1046 |
| id-Semi-PersistentScheduling-CapabilityLCR | ProtocolIE-ID ::= 1047 |
| id-E-DCH-Semi-PersistentScheduling-Information-LCR | ProtocolIE-ID ::= 1048 |
| id-HS-DSCH-Semi-PersistentScheduling-Information-LCR | ProtocolIE-ID ::= 1049 |
| id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-Rec | - |
| id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-Rec | onikqst ProtocolIE-ID ::= 1051 |

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id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 1052
id-ContinuousPacketConnectivity-DRX-CapabilityLCR
                                                                                                         ProtocolIE-ID ::= 1053
id-ContinuousPacketConnectivity-DRX-InformationLCR
                                                                                                         ProtocolIE-ID ::= 1054
id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR
                                                                                                         ProtocolIE-ID ::= 1055
id-CPC-InformationLCR
                                                                                                         ProtocolIE-ID ::= 1056
id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                                                         ProtocolIE-ID ::= 1057
id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR
                                                                                                         ProtocolIE-ID ::= 1058
id-E-AGCH-UE-Inactivity-Monitor-Threshold
                                                                                                         ProtocolIE-ID ::= 1059
id-IdleIntervalInformation
                                                                                                         ProtocolTE-ID ::= 1063
id-GANSS-alm-keplerianNAVAlmanac
                                                                                                         ProtocolIE-ID ::= 1064
id-GANSS-alm-keplerianReducedAlmanac
                                                                                                         ProtocolIE-ID ::= 1065
id-GANSS-alm-keplerianMidiAlmanac
                                                                                                         ProtocolIE-ID ::= 1066
id-GANSS-alm-keplerianGLONASS
                                                                                                         ProtocolIE-ID ::= 1067
id-GANSS-alm-ecefSBASAlmanac
                                                                                                         ProtocolIE-ID ::= 1068
id-HSSICH-ReferenceSignal-InformationLCR
                                                                                                         ProtocolIE-ID ::= 1070
id-MIMO-ReferenceSignal-InformationListLCR
                                                                                                         ProtocolIE-ID \cdot \cdot = 1071
id-MIMO-SFMode-For-HSPDSCHDualStream
                                                                                                         ProtocolIE-ID ::= 1072
id-MIMO-SFMode-Supported-For-HSPDSCHDualStream
                                                                                                         ProtocolIE-ID ::= 1073
id-UE-Selected-MBMS-Service-Information
                                                                                                         ProtocolIE-ID ::= 1074
id-MultiCarrier-HSDSCH-Physical-Layer-Category
                                                                                                         ProtocolIE-ID ::= 1077
id-Common-E-DCH-HSDPCCH-Capability
                                                                                                         ProtocolTE-TD ::= 1078
id-DL-RLC-PDU-Size-Format
                                                                                                         ProtocolIE-ID ::= 1079
id-HSSICH-ReferenceSignal-InformationModifyLCR
                                                                                                         ProtocolTE-TD ::= 1080
id-schedulingPrioritvIndicator
                                                                                                         ProtocolIE-ID ::= 1081
id-TimeSlotMeasurementValueListLCR
                                                                                                         ProtocolIE-ID ::= 1082
id-UE-SupportIndicatorExtension
                                                                                                         ProtocolIE-ID ::= 1085
id-Single-Stream-MIMO-ActivationIndicator
                                                                                                         ProtocolIE-ID ::= 1088
id-Single-Stream-MIMO-Capability
                                                                                                         ProtocolIE-ID ::= 1089
id-Single-Stream-MIMO-Mode-Indicator
                                                                                                         ProtocolIE-ID ::= 1090
id-Dual-Band-Capability-Info
                                                                                                         ProtocolIE-ID ::= 1091
id-UE-AggregateMaximumBitRate
                                                                                                         ProtocolIE-ID ::= 1092
id-UE-AggregateMaximumBitRate-Enforcement-Indicator
                                                                                                         ProtocolIE-ID ::= 1093
id-MIMO-Power-Offset-For-S-CPICH-Capability
                                                                                                         ProtocolIE-ID ::= 1101
id-MIMO-PilotConfigurationExtension
                                                                                                         ProtocolIE-ID ::= 1102
id-TxDiversityOnDLControlChannelsByMIMOUECapability
                                                                                                         ProtocolIE-ID ::= 1103
id-ULTimeslotISCPValue-For-CellPortion
                                                                                                         ProtocolIE-ID ::= 1104
id-UpPTSInterferenceValue-For-CellPortion
                                                                                                         ProtocolIE-ID ::= 1105
id-Best-Cell-Portions-ValueLCR
                                                                                                         ProtocolIE-ID ::= 1106
id-Transmitted-Carrier-Power-For-CellPortion-ValueLCR
                                                                                                         ProtocolIE-ID ::= 1107
id-Received-total-wide-band-power-For-CellPortion-ValueLCR
                                                                                                         ProtocolIE-ID ::= 1108
id-UL-TimeslotISCP-For-CellPortion-Value
                                                                                                         ProtocolIE-ID ::= 1109
id-HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR
                                                                                                         ProtocolIE-ID ::= 1110
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR
                                                                                                         ProtocolIE-ID ::= 1111
id-E-DCHProvidedBitRateValueInformation-For-CellPortion
                                                                                                         ProtocolTE-TD ::= 1112
id-UpPTSInterference-For-CellPortion-Value
                                                                                                         ProtocolIE-ID ::= 1113
id-NumberOfReportedCellPortionsLCR
                                                                                                         ProtocolIE-ID ::= 1114
id-CellPortion-CapabilityLCR
                                                                                                         ProtocolIE-ID ::= 1115
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue
                                                                                                                                                                                                ProtocolIE-ID ::= 1116
id-Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH-HS-SCCH-E-AGCHOFE-HICH Transmission Cell Portion Control Con
                                                                                                                                                                                   ProtocolTE-ID ::= 1117
id-ActivationInformation
                                                                                                         ProtocolIE-ID ::= 1119
id-Additional-EDCH-Cell-Information-RL-Setup-Reg
                                                                                                         ProtocolIE-ID ::= 1120
id-Additional-EDCH-Cell-Information-Response
                                                                                                         ProtocolIE-ID ::= 1121
id-Additional-EDCH-Cell-Information-RL-Add-Req
                                                                                                         ProtocolIE-ID ::= 1122
id-Additional-EDCH-Cell-Information-Response-RL-Add
                                                                                                         ProtocolIE-ID ::= 1123
```

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id-Additional-EDCH-Cell-Information-RL-Reconf-Prep
                                                                    ProtocolIE-ID ::= 1124
id-Additional-EDCH-Cell-Information-RL-Reconf-Reg
                                                                    ProtocolIE-ID ::= 1125
id-Additional-EDCH-Cell-Information-Bearer-Rearrangement
                                                                    ProtocolIE-ID ::= 1126
id-Additional-EDCH-Cell-Information-RL-Param-Upd
                                                                    ProtocolIE-ID ::= 1127
id-Additional-EDCH-Preconfiguration-Information
                                                                    ProtocolIE-ID ::= 1128
id-EDCH-Indicator
                                                                    ProtocolIE-ID ::= 1129
id-HS-DSCH-SPS-Reservation-Indicator
                                                                    ProtocolIE-ID ::= 1131
                                                                    ProtocolIE-ID ::= 1132
id-E-DCH-SPS-Reservation-Indicator
                                                                    ProtocolIE-ID ::= 1133
id-MultipleFreg-HARQ-MemoryPartitioning-InformationList
id-Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext
                                                                    ProtocolIE-ID ::= 1134
id-RepetitionPeriodIndex
                                                                    ProtocolIE-ID ::= 1135
id-MidambleShiftLCR
                                                                    ProtocolIE-ID ::= 1136
id-MaxHSDSCH-HSSCCH-Power-per-CELLPORTION
                                                                    ProtocolIE-ID ::= 1137
id-DormantModeIndicator
                                                                    ProtocolIE-ID ::= 1138
id-DiversityMode
                                                                    ProtocolIE-ID ::= 1139
id-TransmitDiversityIndicator
                                                                    ProtocolIE-ID ::= 1140
id-NonCellSpecificTxDiversity
                                                                    ProtocolIE-ID ::= 1141
id-Cell-Capability-Container
                                                                    ProtocolIE-ID ::= 1142
id-E-RNTI-List-Request
                                                                    ProtocolIE-ID ::= 1143
id-E-RNTI-List
                                                                    ProtocolIE-ID ::= 1144
id-PowerControlGAP-For-CellFACHLCR
                                                                    ProtocolTE-TD ::= 1145
id-UL-Synchronisation-Parameters-For-FACHLCR
                                                                    ProtocolIE-ID ::= 1147
id-HS-DSCH-SPS-Operation-Indicator
                                                                    ProtocolIE-ID ::= 1148
id-HSDSCH-RNTI-For-FACH
                                                                    ProtocolIE-ID ::= 1149
id-E-RNTI-For-FACH
                                                                    ProtocolIE-ID ::= 1150
id-Out-of-Sychronization-Window
                                                                    ProtocolIE-ID ::= 1151
id-Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRgst
                                                                    ProtocolIE-ID ::= 1152
id-E-HICH-TimeOffset-ReconfFailureTDD
                                                                    ProtocolIE-ID ::= 1153
id-HSSCCH-TPC-StepSize
                                                                    ProtocolIE-ID ::= 1154
id-TS0-CapabilityLCR
                                                                    ProtocolIE-ID ::= 1155
id-UE-TS0-CapabilityLCR
                                                                    ProtocolIE-ID ::= 1156
id-Common-System-Information-ResponseLCR
                                                                    ProtocolIE-ID ::= 1157
id-Additional-EDCH-Cell-Information-ResponseRLReconf
                                                                    ProtocolIE-ID ::= 1158
id-Multicell-EDCH-InformationItemIEs
                                                                    ProtocolIE-ID ::= 1159
id-Multicell-EDCH-RL-Specific-InformationItemIEs
                                                                    ProtocolIE-ID ::= 1160
id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst-Ext ProtocolIE-ID ::= 1161
id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext ProtocolIE-ID ::= 1162
id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRgst-Ext ProtocolIE-ID ::= 1163
id-Initial-DL-Transmission-Power
                                                                     ProtocolIE-ID ::= 1164
id-Maximum-DL-Power
                                                                    ProtocolIE-ID ::= 1165
id-Minimum-DL-Power
                                                                    ProtocolIE-ID ::= 1166
id-DCH-MeasurementOccasion-Information
                                                                    ProtocolIE-ID ::= 1167
id-AssociatedPhsicalChannelID
                                                                    ProtocolIE-ID ::= 1168
id-DGNSS-ValidityPeriod
                                                                    ProtocolTE-ID ::= 1169
id-PhysicalChannelID-for-CommonERNTI-RequestedIndicator
                                                                    ProtocolIE-ID ::= 1170
id-PrecodingWeightSetRestriction
                                                                    ProtocolIE-ID ::= 1171
id-Treset-Usage-Indicator
                                                                    ProtocolIE-ID ::= 1172
id-Non-Serving-RL-Preconfig-Info
                                                                    ProtocolIE-ID ::= 1173
id-Non-Serving-RL-Preconfig-Setup
                                                                    ProtocolIE-ID ::= 1174
id-Non-Serving-RL-Preconfig-Removal
                                                                    ProtocolIE-ID ::= 1175
id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup
                                                                    ProtocolIE-ID ::= 1176
id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList ProtocolIE-ID ::= 1177
id-Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext
                                                                    ProtocolIE-ID ::= 1178
id-CommonMACFlow-Specific-InfoList-ResponseLCR-Ext
                                                                    ProtocolIE-ID ::= 1179
```

```
id-Enabling-Delay-Ext-LCR
                                                                    ProtocolIE-ID ::= 1180
id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext
                                                                    ProtocolIE-ID ::= 1195
id-Adaptive-Special-Burst-Power-CapabilityLCR
                                                                    ProtocolIE-ID ::= 1196
id-CommonEDCH-AdditionalTransmissionBackOff
                                                                    ProtocolIE-ID ::= 1200
id-Support-of-Dynamic-DTXDRX-Related-HS-SCCH-Order
                                                                    ProtocolIE-ID ::= 1213
id-CPC-RecoveryReport
                                                                    ProtocolIE-ID ::= 1214
id-E-AGCH-PowerOffset
                                                                    ProtocolIE-ID ::= 1218
id-E-RGCH-PowerOffset
                                                                    ProtocolIE-ID ::= 1219
id-E-HICH-PowerOffset
                                                                    ProtocolIE-ID ::= 1220
                                                                    ProtocolIE-ID ::= 1236
id-Common-E-DCH-Implicit-Release-Timer
```

END

9.3.7 Container Definitions

```
****************
-- Container definitions
__ *********************
NBAP-Containers {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Containers (5) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
   ****************
-- IE parameter types from other modules.
__ ********************
IMPORTS
  maxProtocolExtensions,
  maxPrivateIEs,
  maxProtocolIEs,
   Criticality,
   Presence,
  PrivateIE-ID,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
__ ******************
-- Class Definition for Protocol IEs
__ **********************
NBAP-PROTOCOL-IES ::= CLASS {
   &id
        ProtocolIE-ID
                          UNIQUE,
```

```
&criticality Criticality,
   &Value,
   &presence Presence
WITH SYNTAX {
   ID
       &id
   CRITICALITY &criticality
             &Value
   PRESENCE
             &presence
  **********************
-- Class Definition for Protocol IEs
NBAP-PROTOCOL-IES-PAIR ::= CLASS {
             ProtocolIE-ID
                                  UNIQUE,
   &firstCriticality Criticality,
   &FirstValue,
   &secondCriticality Criticality,
   &SecondValue,
   &presence
                 Presence
WITH SYNTAX {
             &id
   ID
   FIRST CRITICALITY &firstCriticality
                 &FirstValue
   FIRST TYPE
   SECOND CRITICALITY &secondCriticality
   SECOND TYPE
                 &SecondValue
   PRESENCE
                 &presence
-- Class Definition for Protocol Extensions
__ ********************
NBAP-PROTOCOL-EXTENSION ::= CLASS {
         ProtocolIE-ID
                           UNIQUE,
   &criticality
                Criticality,
   &Extension,
   &presence
                 Presence
WITH SYNTAX {
         &id
   CRITICALITY &criticality
   EXTENSION &Extension
   PRESENCE
             &presence
__ ******************
```

```
-- Class Definition for Private IEs
__ **********************
NBAP-PRIVATE-IES ::= CLASS {
   &id PrivateIE-ID.
   &criticality Criticality,
   &Value,
   &presence
                 Presence
WITH SYNTAX {
   ID &id
   CRITICALITY &criticality
   TYPE &Value
   PRESENCE
             &presence
  *****************
-- Container for Protocol IEs
ProtocolIE-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (0..maxProtocolIEs)) OF
   ProtocolIE-Field {{IEsSetParam}}
ProtocolIE-Single-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
   ProtocolIE-Field {{IEsSetParam}}
ProtocolIE-Field {NBAP-PROTOCOL-IES : IESSetParam} ::= SEQUENCE {
          NBAP-PROTOCOL-IES.&id
                                 ({IEsSetParam}),
   criticality NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),
             NBAP-PROTOCOL-IES.&Value
                                    ({IEsSetParam}{@id})
    ****************
-- Container for Protocol IE Pairs
  ·····
ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
   SEOUENCE (SIZE (0..maxProtocolIEs)) OF
   ProtocolIE-FieldPair {{IEsSetParam}}
ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IESSetParam} ::= SEQUENCE {
                NBAP-PROTOCOL-IES-PAIR.&id
                                                ({IEsSetParam}),
   firstCriticality
                        NBAP-PROTOCOL-IES-PAIR.&firstCriticality
                                                             ({IEsSetParam}{@id}),
                    NBAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),
   firstValue
   secondCriticality
                       NBAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),
   secondValue
                    NBAP-PROTOCOL-IES-PAIR. & SecondValue ({IEsSetParam}{@id})
```

```
-- Container Lists for Protocol IE Containers
__ **********************
ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-Container {{IEsSetParam}}
ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR : IESSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-ContainerPair {{IEsSetParam}}
     *****************
-- Container for Protocol Extensions
__ **********************
ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
   SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
   ProtocolExtensionField {{ExtensionSetParam}}
ProtocolExtensionField {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
          NBAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),
   criticality NBAP-PROTOCOL-EXTENSION.&criticality
                                               ({ExtensionSetParam}{@id}),
   extensionValue NBAP-PROTOCOL-EXTENSION.&Extension ({ExtensionSetParam}{@id})
    -- Container for Private IEs
__ ******************
PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (1..maxPrivateIEs)) OF
   PrivateIE-Field {{IEsSetParam}}
PrivateIE-Field {NBAP-PRIVATE-IES : IESSetParam} ::= SEQUENCE {
             NBAP-PRIVATE-IES.&id
   ({IEsSetParam}),
   criticality
                    NBAP-PRIVATE-IES.&criticality
   ({IEsSetParam}{@id}),
             NBAP-PRIVATE-IES.&Value
   ({IEsSetParam}{@id})
END
```

9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. ITU T Rec. X.691 [11].

9.5 Timers

 $T_{Preempt}$

- Specifies the maximum time that a Node B may wait for pre-emption of resources for establishment or reconfiguration of Radio Links.

Handling of Unknown, Unforeseen and Erroneous Protocol Data

10.1 General

Protocol Error cases can be divided into three classes:

- Transfer Syntax Error
- Abstract Syntax Error
- Logical Error

Protocol errors can occur in the following functions within a receiving node:

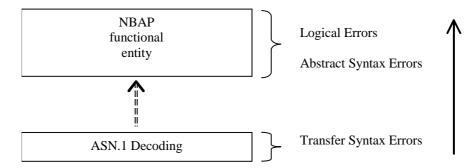


Figure 38: Protocol Errors in NBAP.

The information stated in subclauses 10.2, 10.3 and 10.4, to be included in the message used when reporting an error, is what at minimum shall be included. Other optional information elements within the message may also be included, if available. This is also valid for the case when the reporting is done with a response message. The latter is an exception to what is stated in subclause 4.1.

10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- Violation of value ranges in ASN.1 definition of messages. e.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error.

- Violation in list element constraints. e.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, than this case will be handled as a transfer syntax error.
- Missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).
- Wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

10.3 Abstract Syntax Error

10.3.1 General

An Abstract Syntax Error occurs when the receiving functional NBAP entity:

- 1. receives IEs or IE groups that cannot be understood (unknown id);
- 2. receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);
- 3. does not receive IEs or IE groups but according to the specified presence of the concerned object, the IEs or IE groups should have been present in the received message;
- 4. receives IEs or IE groups that are defined to be part of that message in wrong order or with too many occurrences of the same IE or IE group;
- 5. receives IEs or IE groups but according to the conditional presence of the concerned object and the specified condition, the IEs or IE groups should not have been present in the received message.

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver. Case 4 (IEs or IE groups in wrong order or with too many occurrences) and Case 5 (erroneously present conditional IEs or IE groups) result in rejecting the procedure.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error that belong to cases 1-3 act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5. The handling of cases 4 and 5 is specified in subclause 10.3.6.

10.3.2 Criticality Information

In the NBAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in subclause 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- Reject IE
- Ignore IE and Notify Sender
- Ignore IE

The following rules restrict when a receiving entity may consider an IE, an IE group or an EP not comprehended (not implemented), and when action based on criticality information is applicable:

1. IE or IE group: When one new or modified IE or IE group is implemented for one EP from a standard version, then other new or modified IEs or IE groups specified for that EP in that standard version shall be considered comprehended by the receiving entity (some may still remain unsupported).

2. EP: The comprehension of different EPs within a standard version or between different standard versions is not mandated. Any EP that is not supported may be considered not comprehended, even if another EP from that standard version is comprehended, and action based on criticality shall be applied.

10.3.3 Presence Information

For many IEs/IE groups which are optional according to the ASN.1 transfer syntax, NBAP specifies separately if the presence of these IEs/IE groups is optional or mandatory with respect to RNS application by means of the presence field of the concerned object of class NBAP-PROTOCOL-IES, NBAP-PROTOCOL-IES-PAIR, NBAP-PROTOCOL-EXTENSION or NBAP-PRIVATE-IES.

The presence field of the indicated classes supports three values:

- Optional;
- Conditional;
- Mandatory.

If an IE/IE group is not included in a received message and the presence of the IE/IE group is mandatory or the presence is conditional and the condition is true according to the version of the specification used by the receiver, an abstract syntax error occurs due to a missing IE/IE group.

If an IE/IE group is included in a received message and the presence of the IE/IE group is conditional and the condition is false according to the version of the specification used by the receiver, an abstract syntax error occurs due to this erroneously present conditional IE/IE group.

10.3.4 Not comprehended IE/IE group

10.3.4.1 Procedure ID

The receiving node shall treat the different types of received criticality information of the *Procedure ID* according to the following:

Reject IE:

- If a message is received with a *Procedure ID* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

Ignore IE and Notify Sender:

- If a message is received with a *Procedure ID* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

Ignore IE:

- If a message is received with a *Procedure ID* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

When using the Error Indication procedure to reject a procedure or to report an ignored procedure it shall include the *Procedure ID* IE, the *Triggering Message* IE, and the *Procedure Criticality* IE in the *Criticality Diagnostics* IE.

10.3.4.1A Type of Message

When the receiving node cannot decode the *Type of Message* IE, the Error Indication procedure shall be initiated with an appropriate cause value.

10.3.4.2 IEs Other Than the Procedure ID and Type of Message

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure ID* IE and *Type of Message* IE according to the following:

Reject IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall terminate the procedure and initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*" that the receiving node does not comprehend, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and report in the response message of the procedure that one or more IEs/IE groups have been ignored. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and initiate the Error Indication procedure.

Ignore IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

When reporting not comprehended IEs/IE groups marked with "Reject IE" or "Ignore IE and Notify Sender" using a response message defined for the procedure, the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the Message Structure IE shall be included.

When reporting not comprehended IEs/IE groups marked with "Reject IE" or "Ignore IE and Notify Sender" using the Error Indication procedure, the Procedure ID IE, the Triggering Message IE, Procedure Criticality IE, the Transaction ID IE, and the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be

included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

10.3.5 Missing IE or IE Group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

Reject IE:

- 1. If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall terminate the procedure and initiate the Error Indication procedure.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

Ignore IE and Notify Sender:

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a received message *initiating* a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.

Ignore IE:

- 2. If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message.
- 3. If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall ignore that those IEs/IE groups are missing and continue with the procedure based on the other IEs/IE groups present in the message.

When reporting missing IEs/IE groups with specified criticality "Reject IE" or "Ignore IE and Notify Sender" using a response message defined for the procedure, the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the Message Structure IE shall be included.

When reporting missing IEs/IE groups with specified criticality "Reject IE" or "Ignore IE and Notify Sender" using the Error Indication procedure, the Procedure ID IE, the Triggering Message IE, Procedure Criticality IE, the Transaction ID IE, and the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be

included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

10.3.6 IEs or IE Groups Received in Wrong Order or With Too Many Occurrences or Erroneously Present

If a message with IEs or IE groups in wrong order or with too many occurrences is received or if IEs or IE groups with a conditional presence are present when the condition is not met (i.e. erroneously present), the receiving node shall behave according to the following:

- If a message *initiating* a procedure is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the cause value "Abstract Syntax Error (Falsely Constructed Message)" using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- 4. If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall terminate the procedure and initiate the Error Indication procedure, and use cause value "Abstract Syntax Error (Falsely Constructed Message)".
- If a *response* message is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

When determining the correct order only the IEs specified in the specification version used by the receiver shall be considered.

10.4 Logical Error

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality of the IEs/IE groups containing the erroneous values.

Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a message to report this unsuccessful outcome, this message shall be sent with an appropriate cause value.

Typical cause values are:

- Protocol Causes:
 - 1. Semantic Error
 - 2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a message to report this unsuccessful outcome, the procedure shall be terminated and the ERROR INDICATION procedure shall be initiated with an appropriate cause value. The *Procedure ID* IE, the *Triggering Message* IE and the *Transaction ID* IE within the *Criticality Diagnostics* IE shall then be included in order to identify the message containing the logical error.

Where the logical error exists in a response message of a class 1 procedure, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.

Class 2:

Where the logical error occurs in a message of a class 2 procedure, the procedure shall be terminated and the ERROR INDICATION procedure shall be initiated with an appropriate cause value. The *Procedure ID* IE, the *Triggering*

Message IE and the *Transaction ID* IE within the *Criticality Diagnostics* IE shall then be included in order to identify the message containing the logical error.

10.5 Exceptions

The error handling for all the cases described hereafter shall take precedence over any other error handling described in the other subclause of clause 10.

- If any type of error (Transfer Syntax Error, Abstract Syntax Error or Logical Error) is detected in the ERROR INDICATION message, it shall not trigger the Error Indication procedure in the receiving Node but local error handling.
- In case a response message or ERROR INDICATION message needs to be returned, but the information
 necessary to determine the receiver of that message is missing, the procedure shall be considered as
 unsuccessfully terminated and local error handling shall be initiated.
- If an error that terminates a procedure occurs, the returned cause value shall reflect the error that caused the termination of the procedure even if one or more abstract syntax errors with criticality 'ignore and notify' have earlier occurred within the same procedure.

Annex A (normative): Allocation and Pre-emption of Radio Links in the Node B

A.1 Deriving Allocation Information for a Radio Link

A.1.1 Establishment of a New Radio Link

The Allocation Information for a Radio Link in the case of establishment of a new Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

NOTE: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or

- b) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels that are intended to use the Radio Link is set to "no priority", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels that are intended to use the Radio Link is not set to "no priority", the allocation priority and the pre-emption capability of the Radio Link shall be set according to the following:
 - The transport channels that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link.
 - The allocation priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all non excluded transport channels that are intended to use the Radio Link.
 - If all non-excluded transport channels that are intended to use a Radio Link to be established have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".

If one or more non-excluded transport channels that are intended to use the Radio Link to be established have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

A.1.2 Modification of an Existing Radio Link

The Allocation Information for a Radio Link in the case of modification of a Radio Link (addition or modification of transport channels using the Radio Link) shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

NOTE: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B

- b) a previous procedure adding or modifying the transport channel, or
- c) the current procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels to be added or modified in the Radio Link is set to "no priority", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".

- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels to be added or modified in the Radio Link is not set to "no priority", the allocation priority of and the pre-emption capability of the Radio Link to be modified shall be set according to the following:
 - The transport channels to be added or modified that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link to be modified.
 - The allocation priority for a Radio Link to be modified shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all the non-excluded transport channels that are to be added or modified.
 - If all non-excluded transport channels that are to be added or modified in the Radio Link have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".
 - If one or more of the non-excluded transport channels to be added or modified in the Radio Link have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

A.2 Deriving Retention Information for a Radio Link

The Retention Information for an existing Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

NOTE: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or

- b) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more transport channels using the Radio Link is set to "no priority", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all the transport channels using the Radio Link is not set to "no priority", the retention priority of the Radio Link and the pre-emption vulnerability of the Radio Link shall be set according to the following:
 - The retention priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all transport channels that uses the Radio Link.
 - If all transport channels that uses the Radio Link have the pre-emption vulnerability, given by the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE, set to "pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "pre-emptable".

 If one or more transport channels that uses the Radio Link have the value of the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

The derived retention priority and pre-emption vulnerability are valid until they are changed, or until the Radio Link is deleted. When new transport channels are added to or deleted from the Radio Link or when existing transport channels are modified with regards to the *Allocation/Retention Priority* IE, the retention information shall be derived again according to above.

A.3 The Allocation/Retention Process

The Node B shall establish or modify the resources for a Radio Link according to:

- The value of the Allocation Information (allocation priority and pre-emption capability) of the Radio Link to be established or modified. The Allocation Information is derived according to clause A.1.
- The value of the Retention Information (retention priority and pre-emption vulnerability) of existing Radio Links. The Retention Information derived according to clause A.2.
- The resource situation in the cell.

Whilst the process and the extent of the pre-emption functionality is operator dependent, the pre-emption indicators (pre-emption capability and pre-emption vulnerability) shall be treated as follows:

- -. If the pre-emption capability for a Radio Link to be established or modified is set to "may trigger preemption" and the resource situation so requires, the Node B may trigger the pre-emption process in clause A.4 to free resources for this allocation request.
- -. If the pre-emption capability for a Radio Link to be established or modified is set to "shall not trigger pre-emption", then this allocation request shall not trigger the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "pre-emptable", then this Radio Link shall be included in the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "not pre-emptable", then this Radio Link shall not be included in the pre-emption process in clause A.4.

A.4 The Pre-emption Process

The pre-emption process shall only pre-empt Radio Links with lower retention priority than the allocation priority of the Radio Link to be established or modified. The Radio Links to be pre-empted shall be selected in ascending order of the retention priority.

When the pre-emption process detects that one or more Radio Links have to be pre-empted to free resources for a Radio Link(s) to be established or modified, the Node B shall initiate the Radio Link Pre-emption procedure for all the Node B Communication Contexts having Radio Links selected for pre-emption and start the $T_{Pre-empt}$ timer.

When enough resources are freed to establish or modify the Radio Link(s) according to the request, the Node B shall stop the $T_{Preempt}$ timer and complete the procedure that triggered the pre-emption process in accordance with the "Successful Operation" subclause of the procedure.

If the $T_{Preempt}$ timer expires, the Node B shall regard the procedure that triggered the pre-emption process as failed and complete the procedure in accordance with the "Unsuccessful Operation" subclause of the procedure.

Annex B (informative): Measurement Reporting

When the *Report Characteristics* IE is set to "Event A" (figure B.1), the Measurement Reporting procedure is initiated when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

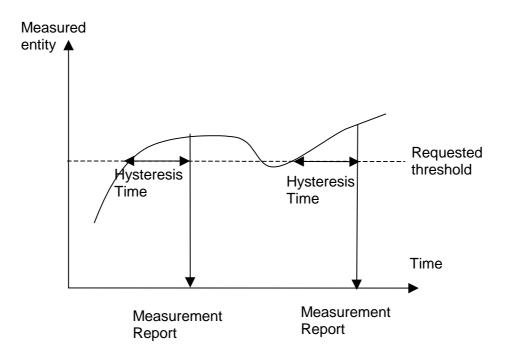


Figure B.1: Event A reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event B" (figure B.2), the Measurement Reporting procedure is initiated when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

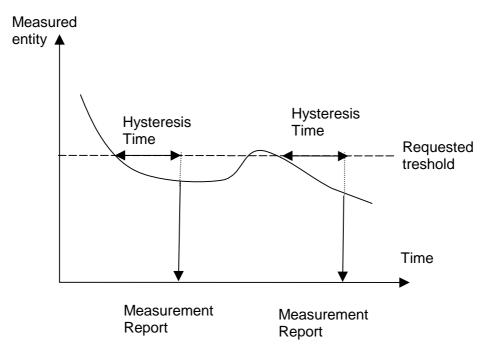


Figure B.2: Event B reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event C" (figure B.3), the Measurement Reporting procedure is initiated always when the measured entity rises by an amount greater than the requested threshold within the requested time. The reporting in figure B.3 is initiated if the Rising Time T1 is less than the requested time.

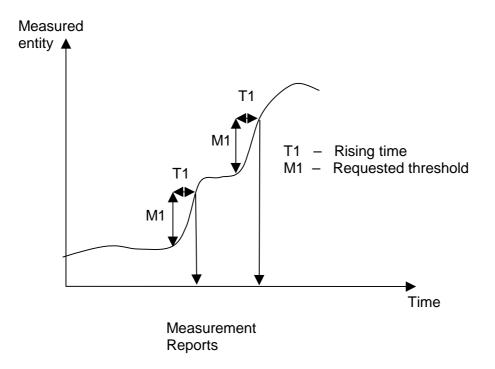


Figure B.3: Event C reporting

When the *Report Characteristics* IE is set to "Event D" (figure B.4), the Measurement Reporting procedure is initiated always when the measured entity falls by an amount greater than the requested threshold within the requested time. The reporting in figure B.4 is initiated if the Falling Time T1 is less than the requested time.

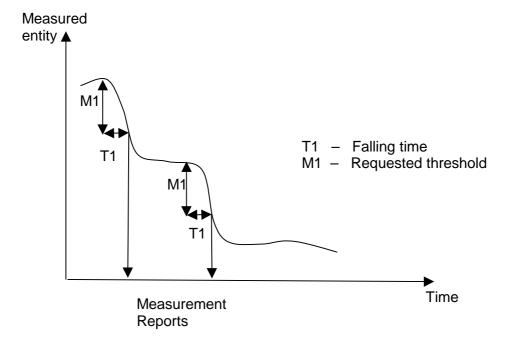


Figure B.4: Event D reporting

When the *Report Characteristics* IE is set to "Event E" (figure B.5), the Measurement Reporting procedure (Report A) is initiated always when the measured entity rises above the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.5). If *Report Periodicity* IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity falls below the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity falls below the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.

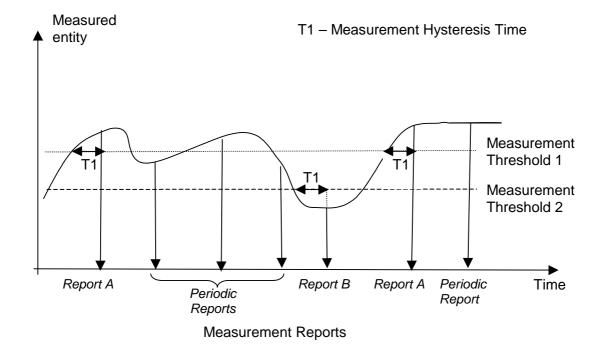
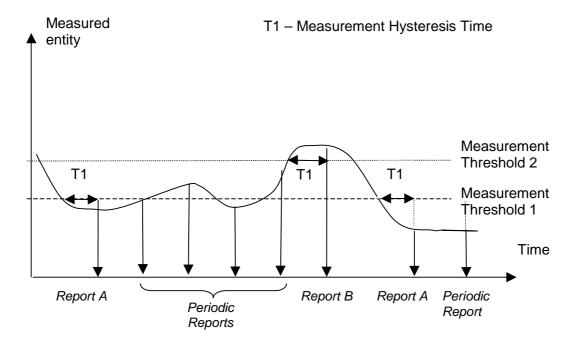


Figure B.5: Event E reporting with Hysteresis Time specified and Periodic Reporting requested

When the *Report Characteristics* IE is set to "Event F" (figure B.6), the Measurement Reporting procedure (Report A) is initiated always when the measured entity falls below the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.6). If *Report Periodicity* IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity rises above the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity rises above the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.



Measurement Reports

Figure B.6: Event F reporting with Hysteresis Time specified and Periodic Reporting requested

Annex C (informative): Guidelines for Usage of the Criticality Diagnostics IE

C.1 EXAMPLE MESSAGE Layout

Assume the following message format:

| IE/Group Name | Presence | Range | IE Type | Semantics | Criticality | Assigned |
|----------------|----------|-----------------|----------|-------------|-------------|-------------|
| | | | and | Description | | Criticality |
| | | | Referenc | | | |
| | | | е | | | |
| Message Type | M | | | | YES | reject |
| Transaction ID | M | | | | _ | |
| Α | M | | | | YES | reject |
| В | M | | | | YES | reject |
| >E | | 1 <maxe></maxe> | | | EACH | ignore |
| >>F | | 1 <maxf></maxf> | | | _ | |
| >>>G | | 03, | | | EACH | ignore |
| >>H | | 1 <maxh></maxh> | | | EACH | ignore |
| >>>G | | 03, | | | EACH | ignore and |
| | | | | | | notify |
| >>G | M | | | | YES | reject |
| >>J | | 1 <maxj></maxj> | | | _ | |
| >>>G | | 03, | | | EACH | reject |
| С | M | | | | YES | reject |
| >K | | 1 <maxk></maxk> | | | EACH | ignore and |
| | | | | | | notify |
| >>L | | 1 <maxl></maxl> | | | _ | |
| >>>M | 0 | | | | _ | |
| D | M | | | | YES | reject |

NOTE 1: The IEs F, J, and L do not have assigned criticality. The IEs F, J, and L are consequently realised as the ASN.1 type SEQUENCE OF of "ordinary" ASN.1 type, e.g. INTEGER. On the other hand, the repeatable IEs with assigned criticality are realised as the ASN.1 type SEQUENCE OF of an IE object, e.g. ProtocolIE-Single-Container.

For the corresponding ASN.1 layout, see subclause C.4.

C.2 Example on a Received EXAMPLE MESSAGE

Assume further more that a received message based on the above tabular format is according to the figure below.

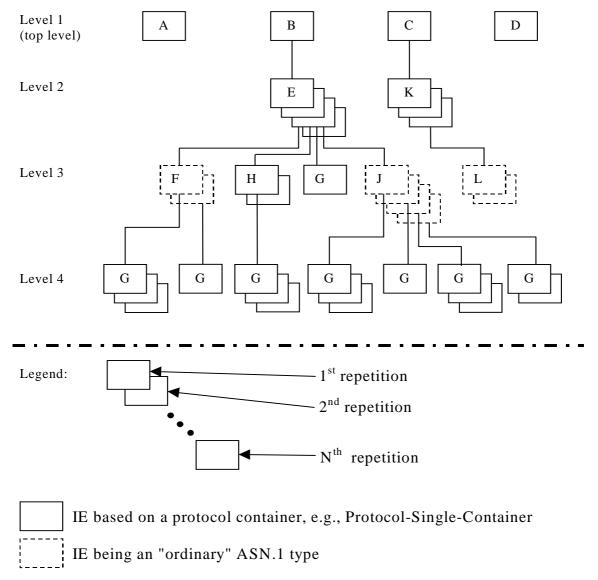
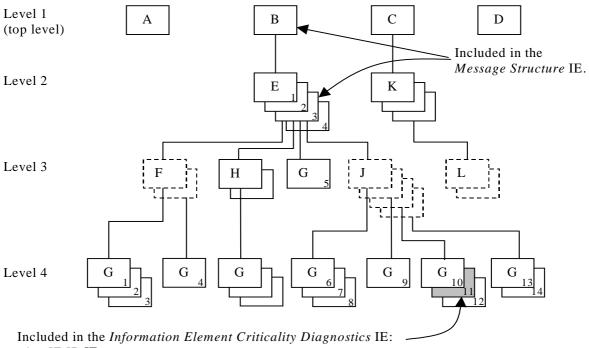


Figure C.1: Example of content of a received NBAP message based on the EXAMPLE MESSAGE

C.3 Content of Criticality Diagnostics

C.3.1 Example 1



- a) IE ID IE
- b) Repetition Number IE

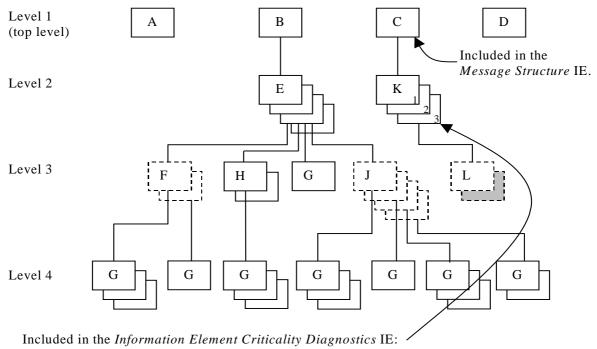
Figure C.2: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE J shown in the figure C.2 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

| IE name | Value | Comment | |
|--------------------------------------|---------------|--|--|
| IE Criticality | reject | Criticality for IE on the reported level, i.e. level 4. | |
| IE ID | id-G | IE ID from the reported level, i.e. level 4. | |
| Repetition | 11 | Repetition number on the reported level, i.e. level 4. | |
| Number | | (Since the IE E (level 2) is the lowest level included in the Message Structure IE this is | |
| | | the eleventh occurrence of IE G within the IE E (level 2). | |
| Type of Error | not | | |
| | underst | | |
| | ood | | |
| Message Structur | e, first repe | etition | |
| >IE ID | id-B | IE ID from level 1. | |
| Message Structure, second repetition | | | |
| >IE ID | id-E | IE ID from the lowest level above the reported level, i.e. level 2. | |
| >Repetition | 3 | Repetition number from the lowest level above the reported level, i.e. level 2. | |
| Number | | | |

- NOTE 2: The IE J on level 3 cannot be included in the *Message Structure* IE since they have no criticality of their own.
- NOTE 3: The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

C.3.2 Example 2



- a) IE ID IE
- b) Repetition Number IE

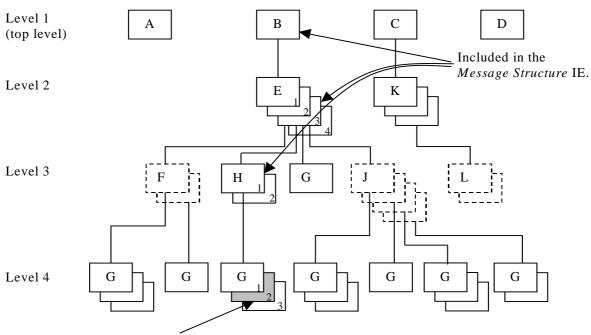
Figure C.3: Example of a received NBAP message containing a not comprehended IE

If there is an error within the second instance (marked as grey) in the sequence (IE L in the tabular format) on level 3 below IE K in the structure shown in the figure C.3 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

| IE name | Value | Comment | | |
|-----------------|-------------------------------------|---|--|--|
| IE Criticality | ignore | Criticality for IE on the reported level, i.e. level 2. | | |
| | and | | | |
| | notify | | | |
| IE ID | id-K | IE ID from the reported level, i.e. level 2. | | |
| Repetition | 3 | Repetition number on the reported level, i.e. level 2. | | |
| Number | | | | |
| Type of Error | not | | | |
| | underst | | | |
| | ood | | | |
| Message Structu | Message Structure, first repetition | | | |
| >IE ID | id-C | IE ID from the lowest level above the reported level, i.e. level 1. | | |

NOTE 4: The IE L on level 3 cannot be reported individually included in the *Message Structure* IE since it has no criticality of its own.

C.3.3 Example 3



Included in the Information Element Criticality Diagnostics IE:

- a) IE ID IE
- b) Repetition Number IE

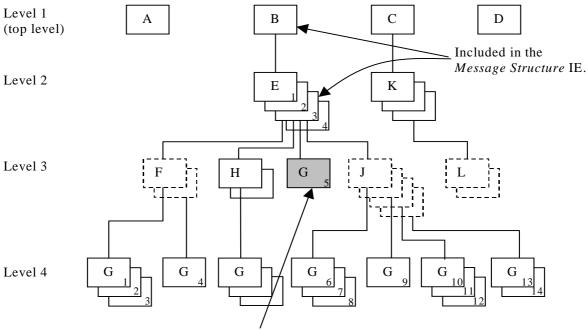
Figure C.4: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE H shown in the figure C.4 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

| IE name | Value | Comment |
|------------------|---------------|---|
| IE Criticality | ignore | Criticality for IE on the reported level, i.e. level 4. |
| | and | |
| | notify | |
| IE ID | id-G | IE ID from the reported level, i.e. level 4. |
| Repetition | 2 | Repetition number on the reported level, i.e. level 4. |
| Number | | |
| Type of Error | not | |
| | underst | |
| | ood | |
| Message Structur | e, first repe | etition |
| >IE ID | id-B | IE ID from level 1. |
| Message Structur | e, second | repetition |
| >IE ID | id-E | IE ID from level 2. |
| >Repetition | 3 | Repetition number from level 2. |
| Number | | |
| Message Structur | e, third rep | petition |
| >IE ID | id-H | IE ID from the lowest level above the reported level, i.e. level 3. |
| >Repetition | 1 | Repetition number from the lowest level above the reported level, i.e. level 3. |
| Number | | |

NOTE 5: The repetition number of level 4 indicates the number of repetitions of IE G received up to the detected erroneous repetition, counted below the same instance of the previous level with assigned criticality (instance 1 of IE H on level 3).

C.3.4 Example 4



Included in the Information Element Criticality Diagnostics IE:

- a) IE ID IE
- b) Repetition Number IE

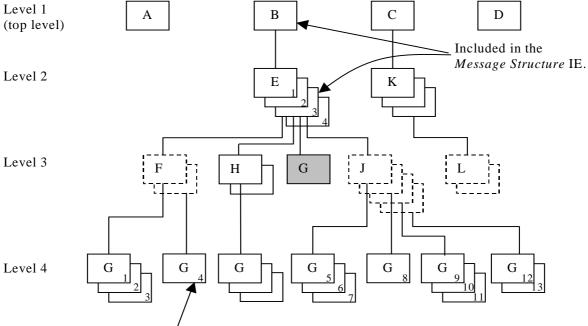
Figure C.5: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE E shown in the figure C.5 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

| IE name | Value | Comment |
|------------------|----------------|--|
| IE Criticality | reject | Criticality for IE on the reported level, i.e. level 3. |
| IE ID | id-G | IE ID from the reported level, i.e. level 3. |
| Repetition | 5 | Repetition number on the reported level, i.e. level 3. |
| Number | | (Since the IE E (level 2) is the lowest level included in the Message Structure IE this is |
| | | the fifth occurrence of IE G within the IE E (level 2). |
| Type of Error | not | |
| | underst | |
| | ood | |
| Message Structur | re, first repe | etition |
| >IE ID | id-B | IE ID from level 1. |
| Message Structur | re, second | repetition |
| >IE ID | id-E | IE ID from the lowest level above the reported level, i.e. level 2. |
| >Repetition | 3 | Repetition number from the lowest level above the reported level, i.e. level 2. |
| Number | | |

NOTE 6: The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

C.3.5 Example 5



Included in the Information Element Criticality Diagnostics IE:

- a) IE ID IE
- b) Repetition Number IE

Figure C.6: Example of a received NBAP message with a missing IE

If the instance marked as grey in the IE G in the IE E shown in the figure C.6 above, is missing this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

| IE name | Value | Comment |
|------------------|--------------|--|
| IE Criticality | reject | Criticality for IE on the reported level, i.e. level 3. |
| IE ID | id-G | IE ID from the reported level, i.e. level 3. |
| Repetition | 4 | Repetition number up to the missing IE on the reported level, i.e. level 3. |
| Number | | (Since the IE E (level 2) is the lowest level included in the Message Structure IE there |
| | | have been four occurrences of IE G within the IE E (level 2) up to the missing |
| | | occurrence. |
| Type of Error | missing | |
| Message Structur | e, first rep | etition |
| >IE ID | id-B | IE ID from level 1. |
| Message Structur | e, second | repetition |
| >IE ID | id-E | IE ID from the lowest level above the reported level, i.e. level 2. |
| >Repetition | 3 | Repetition number from the lowest level above the reported level, i.e. level 2. |
| Number | | |

NOTE 7: The repetition number of the reported IE indicates the number of repetitions of IE G received up to but not including the missing occurrence, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

C.4 ASN.1 of EXAMPLE MESSAGE

```
ExampleMessage ::= SEQUENCE {
                        ProtocolIE-Container
    ProtocolIEs
                                                         {{ExampleMessage-IEs}},
    ProtocolExtensions ProtocolExtensionContainer {{ExampleMessage-Extensions}}
                                                                                           OPTIONAL.
}
ExampleMessage-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-A CRITICALITY reject TYPE A PRESENCE mandatory} | { ID id-B CRITICALITY reject TYPE B PRESENCE mandatory} | { ID id-C CRITICALITY reject TYPE C PRESENCE mandatory} | { ID id-D CRITICALITY reject TYPE D PRESENCE mandatory} ,
}
B ::= SEQUENCE {
                      E-List,
    \verb|ie-Extensions| & ProtocolExtensionContainer { {B-ExtIEs}} & OPTIONAL, \\
B-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-List ::= SEQUENCE (SIZE (1..maxE)) OF ProtocolIE-Single-Container { {E-IEs} }
E-IES NBAP-PROTOCOL-IES ::= {
   { ID id-E CRITICALITY ignore TYPE E PRESENCE mandatory }
E ::= SEQUENCE {
    h
                     H-List,
    q
                     G-List1.
                     J-List,
    iE-Extensions ProtocolExtensionContainer { {E-ExtIEs} } OPTIONAL,
}
E-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
F-List ::= SEQUENCE (SIZE (1..maxF)) OF F
F ::= SEQUENCE {
                      G-List2 OPTIONAL.
    iE-Extensions ProtocolExtensionContainer { {F-ExtIEs} } OPTIONAL,
          NBAP-PROTOCOL-EXTENSION ::= {
F-ExtIEs
 \mbox{G-List2} ::= \mbox{SEQUENCE (SIZE (1...3, ...)) OF Protocolle-Single-Container } \{ \mbox{ } \{\mbox{G2-IEs} \} \mbox{ } \} 
G2-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY ignore TYPE G PRESENCE mandatory }
H-List ::= SEQUENCE (SIZE (1..maxH)) OF ProtocolIE-Single-Container { {H-IEs} }
H-IES NBAP-PROTOCOL-IES ::= {
    H ::= SEQUENCE {
                     G-List3 OPTIONAL,
                                       ProtocolExtensionContainer { {H-ExtIEs} } OPTIONAL,
    iE-Extensions
H-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
G-List3 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G3-IEs} }
G3-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY notify TYPE G PRESENCE mandatory }
G-List1 ::= ProtocolIE-Single-Container { {G1-IEs} }
G1-IES NBAP-PROTOCOL-IES ::= {
   J-List ::= SEQUENCE (SIZE (1..maxJ)) OF J
J ::= SEQUENCE {
                  G-List4 OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {J-ExtIEs} } OPTIONAL,
J-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
G-List4 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { G4-IEs} }
G4-IES NBAP-PROTOCOL-IES ::= {
  { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
C ::= SEQUENCE {
   k
                  K-List,
   iE-Extensions ProtocolExtensionContainer { {C-ExtIEs} } OPTIONAL,
C-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
K-List ::= SEQUENCE (SIZE (1..maxK)) OF ProtocolIE-Single-Container { {K-IEs} }
K-IES NBAP-PROTOCOL-IES ::= {
   { ID id-K CRITICALITY notify TYPE K PRESENCE mandatory }
K ::= SEQUENCE {
                  L-List,
   iE-Extensions ProtocolExtensionContainer { {K-ExtIEs} } OPTIONAL,
K-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
L-List ::= SEQUENCE (SIZE (1..maxL)) OF L
L ::= SEQUENCE {
                  M OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {L-ExtIEs} } OPTIONAL,
L-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ExampleMessage-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

Annex D (normative): IB_SG_DATA Encoding

D.1 Overall Description

There exist two variants for encoding *IB_SG_DATA* IE (see section 9.2.1.32), which are detailed in subsections below. To avoid incorrect transmission of System Information on Uu, the following behaviour is required:

- For each Iub, CRNC shall use the encoding variant supported by the Node B for the *IB_SG_DATA* IE (see section 9.2.1.32) when sending the SYSTEM INFORMATION UPDATE REQUEST message to the Node B. This is supported by configuration in the CRNC.

D.2 IB_SG_DATA Encoding Variant 1

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed SIB segment is performed by the RNC. Building of IB_SG_DATA segments involves two steps:

- 1) Segmentation of MIB/SIB/SB and
- 2) RRC encoding of the segments, which includes the PER encoding of the length in case of "SIB data variable".

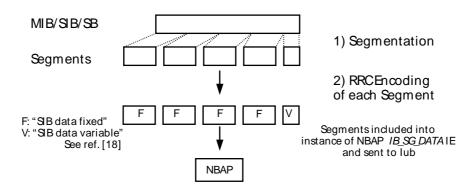


Figure D.1: The Building of Segments

D.3 IB_SG_DATA Encoding Variant 2

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed segment is not performed by the RNC. Segments are built in the CRNC by segmentation of a MIB/SIB/SB.

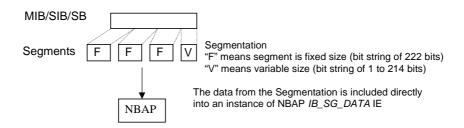


Figure D.2: The Building of Segments

Annex E (informative): Reporting the status of resources used for frequency (1.28 Mcps TDD only)

For a multi-frequency cell, the Local Cell represents the resources in the Node B that can be used for the configuration of a number of frequencies in the cell. The resources for a frequency in Node B are defined as FPM (Frequency Process Module) and is identified by FPM ID.

In the Cell Setup procedure, RNC should configure FPM for each frequency by including *FPM ID* IE in the CELL SETUP REQUEST message.

In the Cell Reconfiguration procedure, RNC should configure FPM for each added frequency by including *FPM ID* IE in the CELL RECONFIGURATION REQUEST message.

In Audit procedure, the Node B should include the *FPM* ID IE and the *Local Cell ID* IE in the *Local Cell Information* IE to report the status of a FPM in the AUDIT RESPONSE message.

In Resource Status Indication procedure, the Node B should include the *FPM ID* IE and the *Local Cell ID* IE in the *Local Cell Information* IE to report the status of a FPM in the RESOURCE STATUS INDICATION message.

Annex F (informative): Change History

| TSG # | TSG Doc. | CR | Rev | Subject/Comment | New |
|---------|------------|------|-----|--|-------|
| 09/2009 | - | - | - | Creation of Rel-9 version based on 8.6.0 | 9.0.0 |
| 45 | RP-090777 | 1648 | 2 | Introduction of UE AMBR concept in UMTS | 9.0.0 |
| 45 | RP-090774 | 1658 | 2 | Introduction of TxAA extension for non-MIMO UEs | 9.0.0 |
| 45 | RP-090772 | 1659 | 2 | Introduction of Dual Band-HSDPA | 9.0.0 |
| 45 | RP-090773 | 1667 | 1 | Introduction of MIMO for DC HSDPA | 9.0.0 |
| 46 | RP-091188 | 1671 | | Introduction of Cell Portion for 1.28 Mcps TDD | 9.1.0 |
| 46 | RP-091187 | 1672 | 1 | Single Stream MIMO for DC-HSDPA | 9.1.0 |
| 46 | RP-091186 | 1673 | | Activation and deactivation of secondary carrier in non serving Node B | 9.1.0 |
| 46 | RP-091178 | 1676 | | Correction to ASN.1 for MiMO Power offset | 9.1.0 |
| 46 | RP-091181 | 1678 | | Clarification of DPC mode configuration for common E-DCH | 9.1.0 |
| 46 | RP-091182 | 1680 | 1 | Correction of abnormal conditions for Dual cell HS-DSCH in RL Addition procedure | 9.1.0 |
| 46 | RP-091180 | 1688 | 2 | Correction on ASN.1 errors in IE Common E-DCH System Information Response LCR for 1.28Mcps TDD | 9.1.0 |
| 46 | RP-091180 | 1690 | 2 | Correction on the SPS resource configuration for 1.28Mcps TDD | 9.1.0 |
| 46 | RP-091180 | 1696 | 1 | Addition of ans.1 definition for the E-DCH Semi-Persistent Resource Reservation Indicator IE | 9.1.0 |
| 46 | RP-091180 | 1698 | 1 | Correction of several IEs" names for 1.28 Mcps TDD | 9.1.0 |
| 46 | RP-091180 | 1700 | 1 | Correction of an error in the HS-DSCH Common System Information LCR IE | 9.1.0 |
| 46 | RP-091180 | 1702 | 1 | Correction of HARQ Memory Partitioning configuration in Enhanced Cell_FACH Operation for 1.28 Mcps TDD | 9.1.0 |
| 46 | RP-091180 | 1704 | 1 | Clarification of Priority Queue ID for Ehanced CELL_FACH for 1.28Mcps TDD | 9.1.0 |
| 46 | RP-091188 | 1707 | 2 | The Power configuration method per Cell Portion for 1.28 Mcps TDD | 9.1.0 |
| 46 | RP-091181 | 1714 | 1 | Application of MAC-e Reset Indicator for MAC-i Reset | 9.1.0 |
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| 48 | RP-100599 | 1815 | 1 | Correction for IE Definition for HS-DSCH/E-DCH MAC PDU Size Capability | 9.3.0 |
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| 51 | RP-110222 | 1861 | | Changed values for a sub-IE in "Common E-DCH Information for E-DCH" IE | 9.6.0 |
| 51 | RP-110222 | 1867 | | Inclusion of "Additional E-DCH Transmission Back Off" in "Common E-DCH Information" | 9.6.0 |
| 52 | RP-110681 | 1893 | | Correction to the MIMO capability for 1.28Mcps TDD | 9.7.0 |
| 52 | RP-110681 | 1896 | | Correction to the number of E-RNTI per group for 1.28Mcps TDD | 9.7.0 |
| 52 | RP-110681 | 1899 | 2 | UE Support Indicator for DL secondary HS-DSCH Activation state according to RRC Rel-9 | 9.7.0 |
| 54 | RP-111646 | 1913 | | Correct missing SPI reference in tabular | 9.8.0 |
| 54 | RP-111645 | 1924 | 2 | Support of dynamic HS-SCCH order for DTXDRX | 9.8.0 |
| 58 | RP-121723 | 1961 | | Introduction of Common E-DCH Implicit Release Timer | 9.9.0 |
| 58 | RP-121723 | 1965 | | Correction to DL control channel power control for E-DCH in Cell_FACH | 9.9.0 |
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