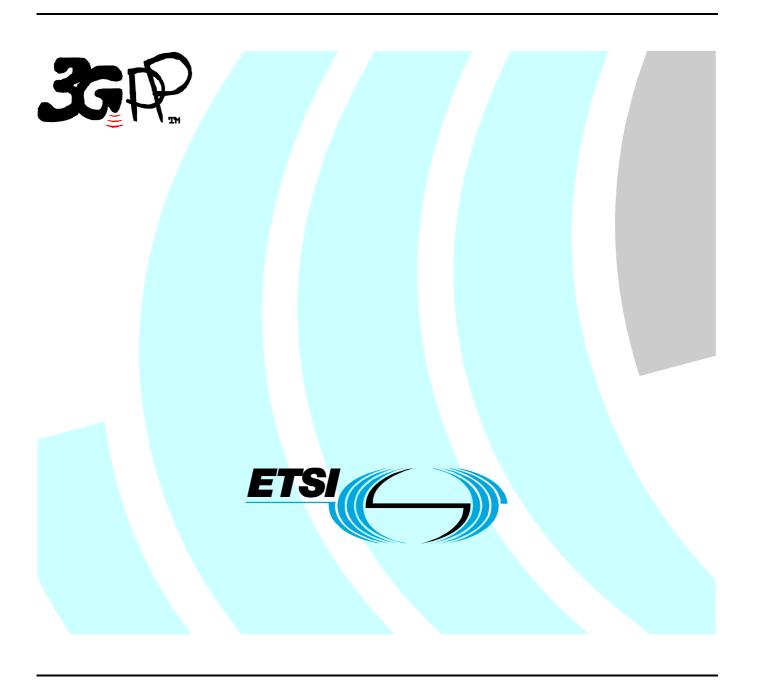
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# Foreword

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 <sup>rd</sup> , 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".	

# 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 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 Abstract Syntax Notation One ASN.1 **Broadcast Control Channel BCCH CCPCH** Common Control Physical Channel **CFN** Connection Frame Number Compressed Mode CMCommon Pilot Channel **CPICH** Controlling Radio Network Controller **CRNC Dedicated Channel** DCH **DGPS** Differential GPS Downlink DI.

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

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)

GANSS Galileo and Additional Navigation Satellite Systems

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

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

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

RACH Random Access Channel

RL Radio Link RLS Radio Link Set

RNC Radio Network Controller RRC Radio Resource Control SB Scheduling Block

SCCPCH Secondary Common Control Physical Channel

SCH Synchronisation Channel
SCTD Space Code Transmit Diversity
SIB System Information Block
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

UTRA Universal Terrestrial Radio Access

UTRAN Universal Terrestrial Radio Access Network

### 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

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

[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.
- [7.68Mcps TDD ...] 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) paragraphs between the 7.68Mcps TDD specific paragraphs.
- 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.

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 c) Reset
Measurements on Common Resources	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
·	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
Magaziromento en Dedicatad Descriptor	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 Mcps TDD]	a) Cell Synchronisation Initiation     b) Cell Synchronisation Reconfiguration
ן ועוטן פאסואן	c) Cell Synchronisation Reconliguration c) Cell Synchronisation Reporting
	d) 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

Function	Elementary Procedure(s)
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

### 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 [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
Cell Setup	CELL SETUP REQUEST	CELL SETUP RESPONSE	CELL SETUP FAILURE
Cell Reconfiguration	CELL RECONFIGURATION REQUEST	CELL RECONFIGURATION RESPONSE	CELL RECONFIGURATION FAILURE
Cell Deletion	CELL DELETION REQUEST	CELL DELETION RESPONSE	
Common	COMMON TRANSPORT	COMMON TRANSPORT	COMMON TRANSPORT
Transport	CHANNEL SETUP	CHANNEL SETUP	CHANNEL SETUP
Channel Setup	REQUEST	RESPONSE	FAILURE
Common	COMMON TRANSPORT	COMMON TRANSPORT	COMMON TRANSPORT
Transport Channel	CHANNEL   RECONFIGURATION	CHANNEL RECONFIGURATION	CHANNEL   RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Common	COMMON TRANSPORT	COMMON TRANSPORT	TAILORE
Transport	CHANNEL DELETION	CHANNEL DELETION	
Channel Deletion	REQUEST	RESPONSE	
Physical Shared	PHYSICAL SHARED	PHYSICAL SHARED	PHYSICAL SHARED
Channel	CHANNEL	CHANNEL	CHANNEL
Reconfiguration	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Audit	REQUEST AUDIT REQUEST	RESPONSE AUDIT RESPONSE	FAILURE AUDIT FAILURE
Block Resource	BLOCK RESOURCE	BLOCK RESOURCE	BLOCK RESOURCE
Diock Nesource	REQUEST	RESPONSE	FAILURE
Radio Link Setup	RADIO LINK SETUP	RADIO LINK SETUP	RADIO LINK SETUP
-	REQUEST	RESPONSE	FAILURE
System	SYSTEM INFORMATION	SYSTEM INFORMATION	SYSTEM INFORMATION
Information	UPDATE REQUEST	UPDATE RESPONSE	UPDATE FAILURE
Update Common	COMMON MEASUREMENT	COMMON	COMMON
Measurement	INITIATION REQUEST	MEASUREMENT	COMMON MEASUREMENT
Initiation	INTIATION REGOLOT	INITIATION RESPONSE	INITIATION FAILURE
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 LINIK
Synchronised Radio Link	RADIO LINK RECONFIGURATION	RADIO LINK RECONFIGURATION	RADIO LINK RECONFIGURATION
Reconfiguration	PREPARE	READY	FAILURE
Preparation			
Unsynchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Dedicated Measurement	DEDICATED MEASUREMENT	DEDICATED MEASUREMENT	DEDICATED MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION RESPONSE	INITIATION FAILURE
Reset	RESET REQUEST	RESET RESPONSE	
			CELL
Cell Synchronisation	CELL SYNCHRONISATION INITIATION REQUEST	CELL SYNCHRONISATION	CELL   SYNCHRONISATION
Initiation [TDD]	INTATION NEGOEST	INITIATION RESPONSE	INITIATION FAILURE
Cell	CELL SYNCHRONISATION	CELL	CELL
Synchronisation	RECONFIGURATION	SYNCHRONISATION	SYNCHRONISATION
Reconfiguration	REQUEST	RECONFIGURATION	RECONFIGURATION
[TDD]	OFIL OVALOUE CARGO TICA	RESPONSE	FAILURE
Cell Synchronisation	CELL SYNCHRONISATION ADJUSTMENT REQUEST	CELL SYNCHRONISATION	CELL SYNCHRONISATION
Adjustment [TDD]	ADJUSTIMENT REQUEST	ADJUSTMENT	ADJUSTMENT FAILURE
ajaoanon [100]		RESPONSE	
Information	INFORMATION EXCHANGE	INFORMATION	INFORMATION
Exchange	INITIATION REQUEST	EXCHANGE INITIATION	EXCHANGE INITIATION
Initiation		RESPONSE	FAILURE

Table 3: Class 2

Elementary Procedure	Message
Resource Status Indication	RESOURCE STATUS INDICATION
Audit Required	AUDIT REQUIRED INDICATION
Common Measurement Reporting	COMMON MEASUREMENT
	REPORT
Common Measurement	COMMON MEASUREMENT
Termination	TERMINATION REQUEST
Common Measurement Failure	COMMON MEASUREMENT
	FAILURE INDICATION
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Commit	COMMIT
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Cancellation	CANCEL
Radio Link Failure	RADIO LINK FAILURE INDICATION
Radio Link Restoration	RADIO LINK RESTORE INDICATION
Dedicated Measurement Reporting	DEDICATED MEASUREMENT
Dedicated Measurement Reporting	REPORT
Dedicated Measurement	DEDICATED MEASUREMENT
Termination	
Dedicated Measurement Failure	TERMINATION REQUEST DEDICATED MEASUREMENT
Dedicated Measurement Failure	
D 1: 1 D 0 1 1 [EDD]	FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Command	COMPRESSED MODE COMMAND
[FDD]	
Unblock Resource	UNBLOCK RESOURCE INDICATION
Error Indication	ERROR INDICATION
Downlink Power Timeslot Control	DL POWER TIMESLOT CONTROL
[TDD]	REQUEST
Radio Link Pre-emption	RADIO LINK PREEMPTION
	REQUIRED INDICATION
Cell Synchronisation Reporting	CELL SYNCHRONISATION
[TDD]	REPORT
Cell Synchronisation Termination	CELL SYNCHRONISATION
[TDD]	TERMINATION REQUEST
Cell Synchronisation Failure [TDD]	CELL SYNCHRONISATION
	FAILURE INDICATION
Information Reporting	INFORMATION REPORT
Information Exchange Termination	INFORMATION EXCHANGE
3. 3	TERMINATION REQUEST
Information Exchange Failure	INFORMATION EXCHANGE
	FAILURE INDICATION
Bearer Re-arrangement	BEARER REARRANGEMENT
	INDICATION
Radio Link Activation	RADIO LINK ACTIVATION
TOUR DEFINITION OF THE PROPERTY OF THE PROPERT	COMMAND
Radio Link Parameter Update	RADIO LINK PARAMETER UPDATE
Tadio Link i didinetei opuate	INDICATION
MBMS Notification Update	MBMS NOTIFICATION UPDATE
MENIO Notification opuate	COMMAND
	COMMUNICIND

### 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

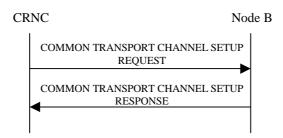


Figure 1: Common Transport Channel Setup procedure, Successful Operation

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 [19,21]. 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 [19,21]. 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 [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 [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.]

#### 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 [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.

#### [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 ([41] in case of IPv4, [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 Iub 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 [6] in the Node B and the common physical channels exist on the Uu interface.

# 8.2.1.3 Unsuccessful Operation

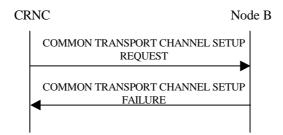


Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation

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 [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.

# 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

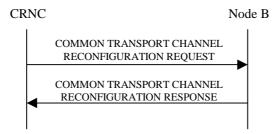


Figure 3: Common Transport Channel Reconfiguration, Successful Operation

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

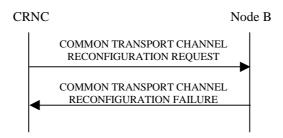


Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation

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

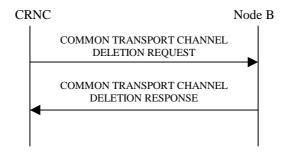


Figure 5: Common Transport Channel Deletion procedure, Successful Operation

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 ([41] in case of IPv4, [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. [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

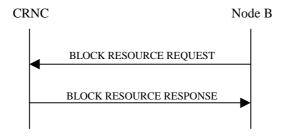


Figure 6: Block Resource procedure, Successful Operation

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

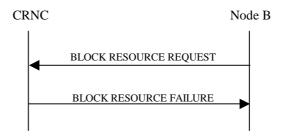


Figure 7: Block Resource procedure, Unsuccessful Operation

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" 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 Capable" for every F-DPCH-capable Local Cell.] [FDD - The Node B shall include the Continuous Packet Connectivity DTX-DRX Capability IE set to "Continuous Packet Connectivity DTX-DRX Capable" when 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 Capable" when Continuous Packet Connectivity HS-SCCH less is supported for every Local Cell that is both HSDPAcapable 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 Mode-capable 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 Formatcapable 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.]

 $[1.28 Mcps\ TDD$  - 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

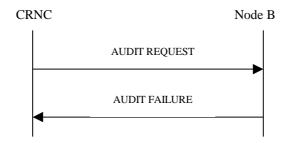


Figure 10A: Audit procedure, Unsuccessful Operation

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

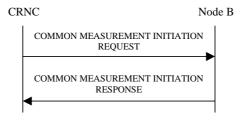


Figure 11: Common Measurement Initiation procedure, Successful Operation

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 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 [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.

[FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion", "HS-DSCH Required Power for Cell Portion", "HS-DSCH Provided Bit Rate for Cell Portion" or "Received Scheduled E-DCH Power Share 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 [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 [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 - 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 "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share 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 - 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 "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share 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 - 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 "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "Received Scheduled E-DCH Power Share 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 - 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 "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "Received Scheduled E-DCH Power Share 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 - 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 "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share 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 - 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 "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share 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 [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  $T_{UTRAN-GPS}$  Change Limit IE is included in the  $T_{UTRAN-GPS}$  Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of  $T_{UTRAN-GPS}$  value ( $F_n$ ). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of  $F_n$  rises above the threshold indicated by the  $T_{UTRAN-GPS}$  Change Limit IE. The change of  $T_{UTRAN-GPS}$  value ( $F_n$ ) 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 [25], measured at SFN<sub>n</sub>.

 $M_{n-1}$  is the previous measurement result received after point C in the measurement model [25], measured at SFN<sub>n-1</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [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 T<sub>UTRAN-GPS</sub> Deviation Limit* IE is included in the *T<sub>UTRAN-GPS</sub> Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P<sub>n</sub> and F<sub>n</sub> The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when F<sub>n</sub> rises above the threshold indicated by the *Predicted T<sub>UTRAN-GPS</sub> Deviation Limit* IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

```
\begin{split} P_n &= b \ for \ n = 0 \\ P_n &= ((a/16) * ((SFN_n - SFN_{n-1}) \ mod \ 4096)/100 + ((SFN_n - SFN_{n-1}) \ mod \ 4096) * 10*3.84*10^3*16 + P_{n-1}) \\ mod \ 37158912000000 \qquad for \ n > 0 \\ F_n &= min((M_n - P_n) \ mod \ 37158912000000) \qquad for \ n > 0 \end{split}
```

 $P_n$  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<sub>UTRAN-GPS</sub> Drift Rate value.

b is the last reported  $T_{\text{UTRAN-GPS}}$  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 [25], measured at SFN<sub>n</sub>.

 $M_I$  is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{UTRAN-GPS}$  Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [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 [25], calculate the change of SFN-SFN value (F<sub>n</sub>). 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 F<sub>n</sub> 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 -  $F_n = (M_n-a) \mod 614400$  for  $n>0$ ]  
[TDD -  $F_n = (M_n-a) \mod 40960$  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 [25], measured at SFN<sub>n</sub>.

 $M_I$  is the first measurement result received after point C in the measurement model [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 [25], update the P<sub>n</sub> and F<sub>n</sub> 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 F<sub>n</sub> rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

```
\begin{split} P_n &= b \ for \ n = 0 \\ & [ \text{FDD -} P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \ mod \ 4096)/100 + P_{n-1}) \ mod \ 614400 \quad for \ n > 0 ] \\ & [ \text{FDD -} F_n &= \min((M_n - P_n) \ mod \ 614400, \ (P_n - M_n) \ mod \ 614400) \qquad for \ n > 0 ] \\ & [ \text{TDD -} P_n &= ((a/16) * (15*(SFN_n - SFN_{n-1}) mod \ 4096 + (TS_n - TS_{n-1}))/1500 + P_{n-1}) \ mod \ 40960 \qquad for \ n > 0 ] \\ & [ \text{TDD -} F_n &= \min((M_n - P_n) \ mod \ 40960, \ (P_n - M_n) \ mod \ 40960) \qquad for \ n > 0 ] \end{split}
```

 $P_n$  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 [25], measured at [TDD - the Time Slot TS<sub>n</sub> of] the Frame SFN<sub>n</sub>.

 $M_I$  is the first measurement result received after point C in the measurement model [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 [25].

- 3. If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning":
  - If the  $T_{UTRAN-GANSS}$  Change Limit IE is included in the  $T_{UTRAN-GANSS}$  Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25],

calculate the change of  $T_{UTRAN-GANSS}$  value ( $F_n$ ). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of  $F_n$  rises above the threshold indicated by the  $T_{UTRAN-GANSS}$  Change Limit IE. The change of  $T_{UTRAN-GANSS}$  value ( $F_n$ ) is calculated according to the following:

```
F_n = 0 \ for \ n = 0 F_n = (GAM_n - GAM_{n-1}) \ mod \ 5308416000000 - ((SFN_n - SFN_{n-1}) \ mod \ 4096) \ *10*3.84*10^3*16 + F_{n-1} \ for \ n > 0
```

 $F_n$  is the change of the  $T_{UTRAN-GANSS}$  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<sub>n</sub>

 $GAM_{n-1}$  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  $Predicted\ T_{UTRAN-GANSS}$   $Deviation\ Limit\ IE$  is included in the  $T_{UTRAN-GANSS}$   $Measurement\ Threshold\ Information\ IE$ , the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the  $P_n$  and  $P_n$ . The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when  $P_n$  rises above the threshold indicated by the  $Predicted\ T_{UTRAN-GANSS}$   $Predicted\ T_{UTRAN-GANSS}$ 

```
\begin{split} P_n &= b \ for \ n = 0 \\ P_n &= ((a/16)*((SFN_n - SFN_{n-1}) \ mod \ 4096)/100 + ((SFN_n - SFN_{n-1}) \ mod \ 4096)*10*3.84*10^3*16 + P_{n-1}) \\ mod \ 5308416000000 \qquad for \ n > 0 \\ F_n &= min((GAM_n - P_n) \ mod \ 5308416000000), \ (P_n - GAM_n) \ mod \ 5308416000000) \qquad for \ n > 0 \end{split}
```

 $P_n$  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<sub>UTRAN-GANSS</sub> 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  $T_{\rm UTRAN\text{-}GANSS}$  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<sub>n</sub>

 $GAM_I$  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  $T_{UTRAN\text{-}GANSS}$  Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [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".

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 - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion", "HS-DSCH Required Power 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

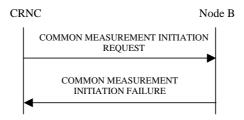


Figure 12: Common Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated, 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 Group			
Received Total Wide Band Power	Х					
Transmitted Carrier Power	Х					
Acknowledged PRACH Preambles		Х				
UL Timeslot ISCP	Х					
UTRAN GPS Timing of Cell Frames for UE Positioning	Х					
SFN-SFN Observed Time Difference	X					
[TDD - Transmitted 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]	Х					
HS-DSCH Required Power	X					
HS-DSCH Provided Bit Rate	Х					
Received Total Wide Band Power for Cell Portion	FDD only					
Transmitted Carrier Power 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	FDD only					
UpPCH interference	1.28 Mcps TDD only					
DL Transmission Branch Load	FDD only		FDD only			
HS-DSCH Required Power for Cell Portion	FDD only		•			
HS-DSCH Provided Bit Rate for Cell Portion	FDD only					
E-DCH Provided Bit Rate	Х					
E-DCH Non-serving Relative Grant Down Commands	FDD only					
Received Scheduled E-DCH Power Share	FDD only					
Received Scheduled E-DCH Power Share for Cell Portion	FDD only					
UTRAN GANSS Timing of Cell Frames for UE Positioning	X					

[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.]

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 Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received Total Wide Band Power	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted Carrier Power	Х	Х	Х	Х	Х	Х	Х	Х	
Acknowledged PRACH Preambles	Х	Х	Х	Х	Х	Х	Х	Х	
UL Timeslot ISCP	Х	Χ	Х	Х	Х	Х	X	Х	
UTRAN GPS	X	X		Α	Λ	Λ	Λ	Λ	Х
Timing of Cell Frames for UE									
Positioning									
SFN-SFN Observed Time Difference	X	X							X
[TDD - Transmitted	Х	Х	Х	Х	Х	Х	Х	Х	
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]									
HS-DSCH	X	X	Х	Х			Х	Х	
Required Power	^	^	^	^			^	^	
HS-DSCH Provided Bit Rate	Х	Х							
[FDD - Received Total Wide Band Power for Cell Portion]	Х	Х	Х	Х	Х	Х	Х	Х	
[FDD - Transmitted Carrier Power for Cell Portion]	Х	Х	Х	Х	Х	Х	Х	Х	
[FDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission	Х	X	Х	Х	Х	X	Х	Х	
for Cell Portion]									
UpPTS interference	Χ	Χ	Х	Х	Х	Х	X	X	
DL Transmission Branch Load	Х	Х	Х	Х			X	Х	
[FDD - HS-DSCH Required Power for Cell Portion]	Х	Х	Х	Х			Х	Х	
[FDD - HS-DSCH Provided Bit Rate for Cell Portion]	Х	Х							
E-DCH Provided Bit Rate	Х	Х							
E-DCH Non- serving Relative Grant Down Commands	Х	Х	Х	Х			Х	Х	

Received Scheduled E-DCH Power Share	X	X	Х	Х	Х	Х	Х	Х	
[FDD - Received Scheduled E-DCH Power Share for Cell Portion]	Х	Х	Х	Х	X	Х	Х	X	
UTRAN GANSS Timing of Cell Frames for UE Positioning	X	X							X

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.

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref.[22] and [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. [22] and [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 - For Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion, HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate for Cell Portion, Received Scheduled E-DCH Power Share for Cell Portion measurements, all the available measurement results for each cell portion shall be included 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

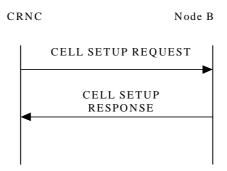


Figure 16: Cell Setup procedure, Successful Operation

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 [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 [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 [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 [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 [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 [19].

# 8.2.12.3 Unsuccessful Operation

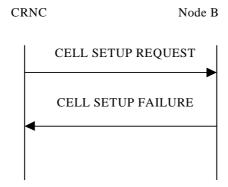


Figure 17: Cell Setup procedure: Unsuccessful Operation

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

#### **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 [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

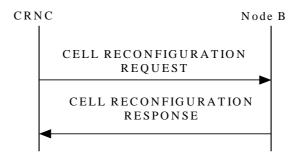


Figure 18: Cell Reconfiguration procedure, Successful Operation

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 *Time Slot Configuration LCR* IE, the Node B shall reconfigure switching-point structure in the cell according to the *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 [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 [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 [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 [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 [19].]

# 8.2.13.3 Unsuccessful Operation

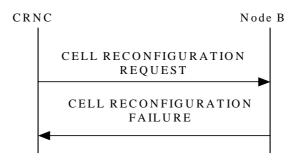


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

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

#### **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

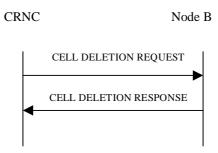


Figure 20: Cell Deletion procedure, Successful Operation

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 [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 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" 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.]

#### **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 IE.

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 MBMS capability has changed for the Local Cell, the new capability shall be indicated in the MBMS Capability IE.

[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.]

# 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

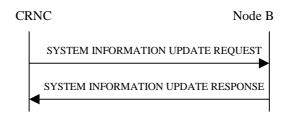


Figure 22: System Information Update procedure, Successful Operation

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 [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

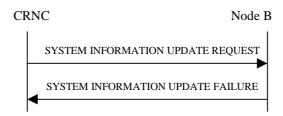


Figure 23: System Information Update procedure, Unsuccessful Operation

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

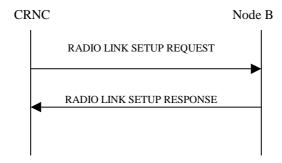


Figure 24: Radio Link Setup procedure, Successful Operation

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.

## **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. [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. [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. [16]. [FDD - If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [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.]
- 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 [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 [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 [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 [24] and MAC-hs [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 [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.]
- [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 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.]

#### [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 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [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 [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 [10].]

[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 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 [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 [32].]

## [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.]

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- [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.]
- [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 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.]
- [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 ignore, when activating the Transmission Gap Pattern Sequence(s), the information provided by the *Downlink Compressed Mode Method* IE if included for the concerned Transmission Gap Pattern Sequence(s).]

#### [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 [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 I*", the second to "*PhCH number 2*", and so on until the *pth* 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 [19] and [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. [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.]

[1.28Mcps 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.]

[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:]

- [FDD The Node B shall configure the concerned Node B Communication Context for DTX operation according to [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 [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 [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.]

#### **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]

# **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.[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  $\delta P_{curr}$ , as described in ref.[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. [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.[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 [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 [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.[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 [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.[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 [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. [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<sub>init</sub>* 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 DRNC shall use the value for the power control for HS-SCCH and HS-SICH according to the [22].]

#### 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 [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 [7].]

#### [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 [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 [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 [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 [16].]
- [TDD start transmission on the new RL immediately as specified in [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 [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 [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.]

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].

#### **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 - and the transport bearer for the DCH or E-DCH MAC-d flow is already established], 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 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 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 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 concerned Node B Communication Context is configured to use F-DPCH in the downlink, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the Compressed Mode Configuration and if the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Code Information* IE for any DL Channelisation Code, 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 *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 and/or *Sixtyfour QAM Usage Allowed Indicator* IE set to "Allowed", 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.]

# 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

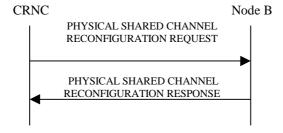


Figure 26: Physical Shared Channel Reconfiguration, Successful Operation

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 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.]

[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.]

[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 *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.
- 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 *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.
- 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.]

#### [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 I.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.]

#### [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 [19,21]. 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 [21].]

#### **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

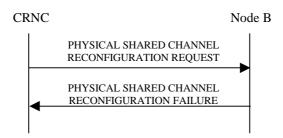


Figure 27: Physical Shared Channel Reconfiguration procedure: Unsuccessful Opreration

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 or HS-SCCH 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 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.]

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 1.28Mcps IE, the Modify 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 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 does not contain 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.]

# 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

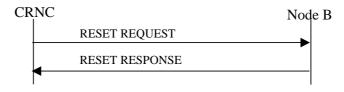


Figure 27A Reset procedure (CRNC to Node B), Successful Operation

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

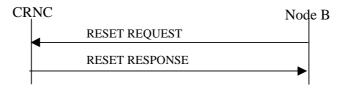


Figure 27B Reset procedure (Node B to CRNC), Successful Operation

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

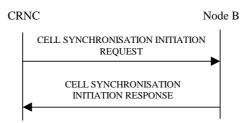


Figure 27C Cell Synchronisation Initiation procedure, Successful Operation

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

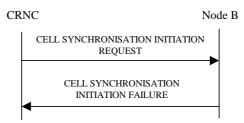


Figure 27D Cell Synchronisation Initiation procedure, Unsuccessful Operation

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

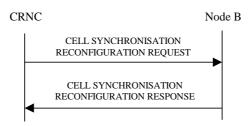


Figure 27E Cell Synchronisation Reconfiguration procedure, Successful Operation

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

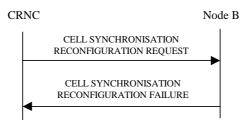


Figure 27F Cell Synchronisation Reconfiguration procedure, Unsuccessful Operation

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 [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

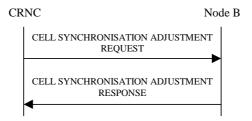


Figure 27J Cell Synchronisation Adjustment, Successful Operation

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

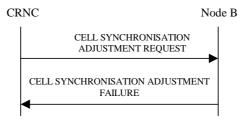


Figure 27K Cell Synchronisation Adjustment, Unsuccessful Operation

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

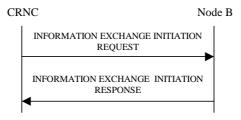


Figure 27L: Information Exchange Initiation procedure, Successful Operation

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* 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<sub>ot</sub> or WN<sub>t</sub> 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<sub>oa</sub> or WN<sub>a</sub> 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<sub>ot</sub> or WN<sub>t</sub> 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<sub>oa</sub>, IOD<sub>a</sub> 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 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* or *GANSS RX Pos* 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 or GANSS Data Bit Assistance 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 "Galileo" that does not contain the *GANSS Signal ID* IE is by default associated with "Galileo L1 OS" (see [39]).
- 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 "Galileo" that does not contain the *Bad GANSS Signal ID* IE is by default associated with all the signals of the corresponding satellite (see [39]).

### 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. [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.

### 8.3 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

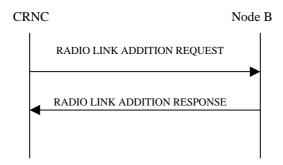


Figure: 28 Radio Link Addition procedure, Successful Operation

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.

#### **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. [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*".]

### [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.]

#### **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.]

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 is included in the RADIO LINK ADDITION REQUEST message, the Node B shall activate/deactivate the Transmit Diversity for each new Radio Link in accordance with the *Transmit Diversity Indicator* IE and the already known diversity mode.]

#### **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.[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.[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 specifiedin [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.[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  $\delta P_{curr}$ , as described in ref.[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 [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 [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.[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. [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.]

#### 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 [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 [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 [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 [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 [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 - HS-DSCH Setup 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 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 [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 [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 [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 [24] and MAC-hs [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 [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 *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 [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 - 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 may 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, 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 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [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 [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 [10].]

### [FDD - E-DCH Setup:]

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

- [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 *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 [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 [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.]

#### [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 [24] and MAC-hs [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.]
- ITDD 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 [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 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.]

### [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 MACd 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.]
- [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.]

- [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.]

#### **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 [16].]
- [TDD start transmission on the new RL immediately as specified in [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 [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 [16].]

### 8.3.1.3 Unsuccessful Operation

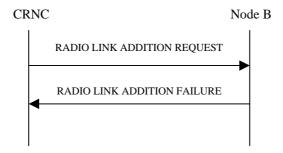


Figure 29: Radio Link Addition procedure: Unsuccessful Operation

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 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.]

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]

### **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 transport bearer for the DCH or E-DCH MAC-d flow is already established] 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 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 Node B Communication Context is configured to use F-DPCH in the downlink, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the Compressed Mode Configuration and if the RADIO LINK ADDITION REQUEST message includes the *Transmission Gap Pattern Sequence Code Information* IE for any DL Channelisation Code, 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 *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 Information* IE [FDD - 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.

[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 and/or *Sixtyfour QAM Usage Allowed Indicator* IE set to "Allowed", 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.]

## 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

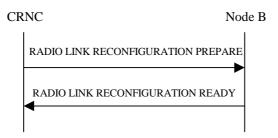


Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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.

#### **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. [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. [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. [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [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. [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. [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 [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 [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 [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.]
- [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 [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.]

#### [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 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [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 [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 [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.]

### [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 1E*, 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* 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 [19] and [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 [19] and [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.]

[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 [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  $\delta P_{curr}$ , as described in ref.[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.[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 [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.[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 [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.[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 [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.]
- 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 [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 [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 [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 [24] and MAC-hs [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 [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.]
- [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 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.]

# 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.]

- [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.

#### **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 [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 [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.]
- [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 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 [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 [24] and MAC-hs [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 [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.]
- [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.]

### **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 [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.]

### [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 *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 [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 [32].]

# [FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the  $\emph{E-DCH RL Indication}$  IE in the  $\emph{RL Information}$  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 may 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 [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 *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 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 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 [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 [32].]

# [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 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.]

### [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 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.]

## [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 [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.]

[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.]
  - [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 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 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.]

#### 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.]

# 8.3.2.3 Unsuccessful Operation

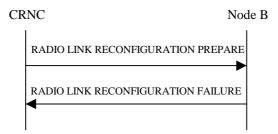


Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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].

# **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 [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.

[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 concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration, if the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Information* IE, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the new Compressed Mode Configuration and if the RADIO LINK RECONFIGURATION PREPARE message does not include the *Transmission Gap Pattern Sequence Code Information* IE for each DL Channelisation Code, 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 or *E-DPCCH Power Offset* 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.]

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 or allowed to apply 64 QAM 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.]

# 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.[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.[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 [16], subclause 5.10.1 and in [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 ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.]

# 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.]

# 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

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# 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

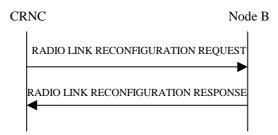


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

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.

# **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 [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. [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 [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE [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 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. [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 [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 [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 [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.]
- [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 [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.]

# [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 [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION REQUEST 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 [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 [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.]

# [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 [19] and [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  $\delta P_{curr}$ , as described in ref.[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 [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 [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.]
- 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 Queue.
- 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 [24]. If RADIO LINK RECONFIGURATION 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 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 [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 [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 [24] and MAC-hs [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 [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.]
- [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 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.]

### 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.]
- [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.

#### **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To Modify Unsynchronised* 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 [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.]
- [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 [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 [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.]

### **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 [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-ofdate 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.]

# [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 *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 [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 [32].]

# [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 may 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 *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 ( $\beta_{ed,i,ua}$ ) as defined in [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 REQUEST 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 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 [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 [32].]

### [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 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.]

### [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.]

# [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 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.]

## [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.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the  $\emph{E-DCH TDD Information To Modify}$  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.]
  - [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 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 Reset is performed in the UE for sending the HARQ Failure Indication.]

#### 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 [16], subclause 5.10.1 and in [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.]

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

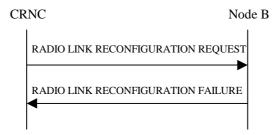


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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]

## **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.

[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, *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.]

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 or allowed to apply 64 QAM 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.]

## 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

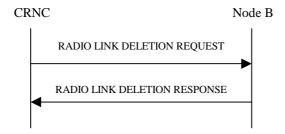


Figure 36: Radio Link Deletion procedure, Successful Operation

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. [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. [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.]

## 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. [10].

#### **Power Adjustment**

The power balancing adjustment shall be superimposed on the inner loop power control adjustment (see ref. [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  $\pm 0.5$  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

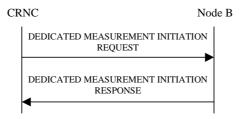


Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

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 [4] and [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 [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.]

#### **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 [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 [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 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

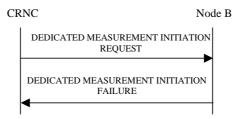


Figure 39: Dedicated Measurement Initiation procedure: Unsuccessful Operation

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.

**Dedicated Report Characteristics Type** Measurement On Periodic **Event Event Event Event Event Event** On Type Modification **Demand** B C D Ε F Α SIR X Χ X Χ Χ Χ SIR Error Х Х Х X Х X X **Transmitted Code** X X X X X X Power RSCP X Χ Χ Χ Χ Χ Χ Χ Rx Timing Χ Χ Χ Χ Χ Χ Deviation Round Trip Time X Χ Χ Χ Χ Χ X X **Rx Timing** Χ Χ Χ Χ Χ Χ Deviation LCR **HS-SICH** reception Χ Χ Χ Χ X Χ quality **Best Cell Portions** Angle Of Arrival X Χ LCR Rx Timing Χ Χ Χ Χ X Χ Deviation 7.68Mcps **Rx Timing** Χ Χ Χ Χ Χ X Deviation 3.84Mcps

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

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. [4] or [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

Extended

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.[22] and [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. [22] and [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

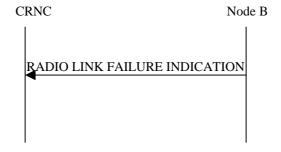


Figure 43: Radio Link Failure procedure, Successful Operation

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 [10] and [21]. [FDD - The algorithms in [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. [10] and [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. [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 ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.

#### 8.3.14.3 Abnormal Conditions

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## 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. [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 [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 [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

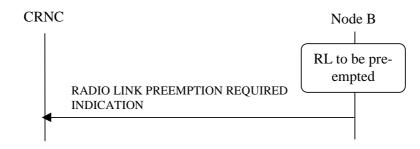


Figure 47B: Radio Link Pre-emption procedure, Successful Operation

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.

## 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 [16].]
    - [TDD start transmission on the new RL immediately as specified in [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 [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 [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.[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.[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 [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.]

[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.]

#### 8.3.19.3 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

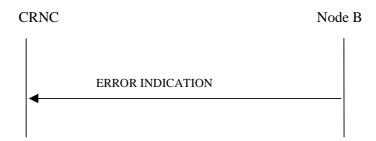


Figure 49: Error Indication procedure (Node B to CRNC): Successful Operation

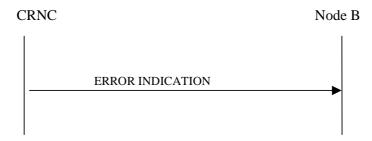


Figure 50: Error Indication procedure (CRNC to Node B), Successful Operation

#### 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. [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

# 9.1.3.1 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	М				YES	ignore
>Secondary CCPCH						
>>Secondary CCPCH		1			_	
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>FDD SCCPCH Offset	М		9.2.2.15	Corresponds to [7]: S-CCPCH,k	_	
>>>DL Scrambling Code	C-PCH		9.2.2.13		_	
>>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>>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		9.2.1.57	Refer to TS [7]	_	
>>>Multiplexing Position	М		9.2.2.23		_	
>>>Power Offset Information		1			_	
>>>P01	М		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&gt;</maxno 			GLOBAL	reject
>>>Common Transport Channel ID	М		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		_	
>>>>Max FACH Power	М		DL Power 9.2.1.21	Maximum allowed power on the FACH.	_	
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment	YES	ignore

				with ALCAP.		
>>>>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		-	
>>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	М		9.2.1.61		ı	
>>>>ToAWE	М		9.2.1.60		1	
>>>PCH Power	М		DL Power 9.2.1.21		ı	
>>>PICH		1			_	
Parameters						
>>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		_	
>>>>PICH Power	М		9.2.1.49A		1	
>>>>PICH Mode	М		9.2.2.26	Number of PI per frame	-	
>>>>STTD Indicator	М		9.2.2.48		ı	
>>>>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
>>>MICH Parameters		01		-	YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		_	1,1
>>>>FDD DL Channelisation Code Number	М		9.2.2.14		-	
>>>MICH Power	М		PICH		_	

	Τ	1		1	1	ı
			Power			
			9.2.1.49A			
>>>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 only	YES	reject
>>>Extended Secondary CCPCH Slot Format	0		9.2.2.92	Used for MBSFN operation only	YES	reject
>PRACH						
>>PRACH		1			_	
>>>Common Physical Channel ID	M		9.2.1.13		_	
>>>Scrambling Code Number	M		9.2.2.42		_	
>>>TFCS	М		9.2.1.58	For the UL.	_	
>>>Preamble Signatures	М		9.2.2.31		_	
>>>Allowed Slot Format Information		1 <maxno ofSlotForm atsPRACH &gt;</maxno 			-	
>>>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	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
>>>AICH Parameters		1			_	
>>>Common Physical Channel ID	М		9.2.1.13			
>>>>AICH Transmission Timing	М		9.2.2.1		_	
Hansiiission Hillinu						

Channelisation Code Number					
>>>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	The IE shall be present if the Secondary CCPCH Slot Format IE is set to
	any of the values from 8 to 17.
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	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		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	М		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	-	
>>TFCI Coding	М		9.2.3.22		_	
>>Puncture Limit	M		9.2.1.50			
>>CHOICE HCR or LCR	M			See note 1	_	
or 7.68 Mcps				below		
>>>3.84Mcps TDD					_	
>>>>Secondary CCPCH		1 <maxno ofSCCPC Hs&gt;</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	M		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	M		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					_	
>>>Secondary CCPCH LCR		1 <maxno ofSCCPC HsLCR&gt;</maxno 		See note 2 below	GLOBAL	reject
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>TDD Channelisation Code	М		9.2.3.19a		_	

LCR						
>>>>Time Slot	M		9.2.3.24A		_	
LCR	IVI		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		ı	
>>>>Repetition Period	М		9.2.3.16		ı	
>>>>Repetition Length	М		9.2.3.15		-	
>>>>SCCPCH Power	М		DL Power 9.2.1.21		-	
>>>>SCCPCH Time Slot Format LCR	М		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 [19]. The Time Slot 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&gt;</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	M		9.2.3.23		_	
>>>>TFCI Presence	0		9.2.1.57		_	
>>>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		_	
>>>>TDD Physical Channel Offset	М		9.2.3.20		_	
>>>>Repetition	М		9.2.3.16		_	

Period						
>>>>Repetition	М		9.2.3.15		_	
Length						
>>>>SCCPCH	М		DL Power		_	
Power			9.2.1.21			
>>FACH Parameters		0 <maxno ofFACHs&gt;</maxno 			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	М		9.2.1.60		_	
>>>Max FACH Power	0		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	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	01	9.2.1.14		-	Tojout
>>>PCH 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		9.2.1.60		_	
>>>CHOICE HCR or LCR or 7.68Mcps	M			See note 1 below	_	
>>>>3.84Mcps TDD					_	
>>>>PICH Parameters		01			YES	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		1	
>>>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>>>Repetition Period	М		9.2.3.16		_	
>>>>Repetition Length	М		9.2.3.15		_	
>>>>Paging Indicator Length	M		9.2.3.8		_	
>>>>PICH	М		9.2.1.49A		-	
Power TDD		+				
>>>>1.28Mcps TDD		0.4				!
Parameters LCR		01			YES	reject
>>>>Common Physical Channel ID	M		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		_	
>>>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>>>Repetition Period	М		9.2.3.16		_	
>>>>Repetition Length	М		9.2.3.15		_	
>>>>Paging Indicator Length	М		9.2.3.8		_	
>>>>PICH Power	М		9.2.1.49A		_	
>>>>Second TDD Channelisation Code LCR	М		TDD Channelisat ion Code LCR 9.2.3.19a		-	
>>>>TSTD Indicator	0		9.2.1.64		YES	reject
>>>7.68Mcps TDD					_	
>>>>PICH Parameters		01			YES	reject
>>>>Common Physical Channel ID 768Mcps	М		9.2.3.33		-	
>>>>TDD Channelisation Code 7.68Mcps	M		9.2.3.34		-	
>>>>Time Slot	M	1	9.2.3.23		_	
>>>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		-	
>>>>TDD	М		9.2.3.20		_	
	1	1	<u>,</u>	1	I	

Physical Channel Offset						
>>>>Repetition Period	М		9.2.3.16		_	
>>>>Repetition	М		9.2.3.15		_	
Length >>>>Paging	M		9.2.3.8		_	
Indicator Length >>>>PICH	M		9.2.1.49A		_	
Power						
>>>PCH Power	0		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	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
>>TSTD Indicator	0		9.2.1.64		YES	reject
>>MICH Parameters		01			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		_	
>>>TDD Physical Channel Offset	M		9.2.3.20		_	
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>Notification Indicator Length	М		9.2.3.7Aa		_	
>>>MICH Power	М		PICH Power 9.2.1.49A		_	
>>>CHOICE HCR or LCR or 7.68 Mcps	М				_	
>>>3.84Mcps TDD						
>>>>MICH		1			_	
Parameters HCR						
>>>>TDD Channelisation Code	M		9.2.3.19		_	
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble Shift And Burst Type	М		9.2.3.7		_	
>>>1.28Mcps TDD						
>>>>MICH Parameters LCR		1			_	
>>>>TDD Channelisation	М		9.2.3.19a		-	

Code I CB						
Code LCR	B.4		0.0.0.044			
>>>>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	М		TDD		_	
TDD Channelisation Code LCR			Channelisat ion Code LCR 9.2.3.19a			
>>>>TSTD Indicator	М		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 [19]. The Time Slot LCR IE for the MICH parameters LCR shall be ignored if this IE appears.	YES	ignore
>>>7.68 Mcps TDD						
>>>>MICH Parameters 7.68 Mcps		1			-	
>>>>>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 ID	M		Cell Parameter ID 9.2.3.4		-	
>>UARFCN	0		9.2.1.65	Corresponds to	YES	reject

	1	1	1	_		
				Nt [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						
>>CHOICE HCR or LCR	M			See note 1	_	
or 7.68 Mcps				below		
>>>3.84Mcps TDD					_	
>>>PRACH		1			YES	roject
	N 4	,	9.2.1.13		163	reject
>>>>Common	M		3.2.1.13		_	
Physical Channel ID						
>>>>TFCS	M		9.2.1.58		_	
>>>>Time Slot	M		9.2.3.23		_	
>>>>TDD	М		9.2.3.19		_	
Channelisation Code						
>>>>Max PRACH	М		9.2.3.6		_	
	IVI		0.2.0.0			
Midamble Shifts			00011			
>>>>PRACH	M		9.2.3.14		_	
Midamble						
>>>>RACH		1			YES	reject
>>>>Common	M		9.2.1.14		_	
Transport Channel						
ID .						
>>>>Transport	М		9.2.1.59	For the UL	_	
Format Set	'''		0.2.1.00	1 of the ob		
			0.04.4	Chall ha	VEC	:
>>>>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	0	.9
Layer Address				bearer		
				establishment		
	_			with ALCAP.	_	
>>>>TNL QoS	0		9.2.1.58A	Shall be	YES	ignore
				ignored if		
				bearer		
				establishment		
				with ALCAP.		
>>>1.28Mcps TDD				-	_	
>>>PRACH LCR		1 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
///FRACTI LOR		ofPRACHL			GLODAL	rejett
_		CRs>	0.04.40			
>>>>Common	М		9.2.1.13		_	
Physical Channel ID	1					
			9.2.1.58			

>>>>Time Slot LCR	М		9.2.3.24A		-	
>>>>TDD Channelisation Code LCR	М		9.2.3.19a		-	
>>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>>RACH		1			YES	reject
>>>>>Common Transport Channel ID	M		9.2.1.14		П	
>>>> 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 [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	M		9.2.3.23		_	
>>>>TDD Channelisation Code 7.68Mcps	M		9.2.3.34		_	
>>>>Max PRACH Midamble Shifts	M		9.2.3.6		_	
>>>>PRACH Midamble	М		9.2.3.14		_	
>>>>RACH		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		_	
>>>>Transport	М		9.2.1.59	For the UL	-	

Format Set						
>>>>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 [15] This IE indicates the frequency of Secondary Frequency on which FPACH to be set up.	YES	reject
>PLCCH				1.28 Mcps TDD only		
>>Max PLCCH Power	М		DL Power 9.2.1.21		-	
>>Common Physical Channel ID	М		9.2.1.13		_	
>>TDD Channelisation Code	М		9.2.3.19		_	
>>Time Slot LCR	М		9.2.3.24A		_	
>>Midamble Shift LCR	М		9.2.3.7A		_	
>E-RUCCH				3.84Mcps TDD only		
>>Common Physical Channel ID	М		9.2.1.13		_	
>>Time Slot	М		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		

>>Common Physical Channel ID 7.68Mcps	М	9.2.3.33	_	
>>Time Slot	М	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	M	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 ProtocolIE-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	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
FACH Parameters Info		0 <maxno ofFACHs&gt;</maxno 		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>FACH Parameters	M		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	Semantics Description	Criticality	Assigned Criticality
	1		Reference			
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
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE Common Physical	M				YES	reject
Channel To Be Configured						
>Secondary CCPCH						
>>FACH Parameters		0 <maxfa CHCell&gt;</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 &gt;</maxno 			-	
>>>RACH Slot Format	М		9.2.2.37		ı	
>>>RACH Sub Channel Numbers	0		9.2.2.38		ı	
>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer reconfiguration with ALCAP.	YES	ignore
>>AICH Parameters		0 <maxp RACHCell &gt;</maxp 			GLOBAL	reject
>>>Common Physical Channel ID	М		9.2.1.13		ı	
>>>AICH Power	0		9.2.2.D		ı	
>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	Assigned Criticality
			Reference			
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
Secondary CCPCH		01			YES	reject
Parameters						

007.01115	Τ	1	T	Τ	Г	
>CCTrCH ID	M		9.2.3.3	For DL CCTrCH supporting one or several	_	
				Secondary CCPCHs		
>Secondary CCPCHs To Be Configured		0 <maxno ofSCCPC Hs&gt;</maxno 		See note 1 below	GLOBAL	reject
>>Common Physical Channel ID	М		9.2.1.13		_	
>>SCCPCH Power	0		DL power 9.2.1.21		-	
PICH Parameters		01			YES	reject
>Common Physical Channel ID	M		9.2.1.13		_	
>PICH Power	0		9.2.1.49A		_	
FACH Parameters		0 <maxno ofFACHs&gt;</maxno 			GLOBAL	reject
>Common Transport Channel ID	М		9.2.1.14		_	
>ToAWS	0		9.2.1.61		-	
>ToAWE	0		9.2.1.60			
>Max FACH Power	0		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer reconfiguration with ALCAP.	YES	ignore
PCH Parameters		01		William A. E. Garage	YES	reject
>Common Transport Channel ID	М		9.2.1.14		_	7
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>PCH Power	0		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer reconfiguration with ALCAP.	YES	ignore
FPACH Parameters		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		_	
>Max FPACH Power	0		9.2.3.5E		_	
MICH Parameters		01			YES	reject
>Common Physical Channel ID	M		9.2.1.13		_	
>MICH Power	0		PICH Power 9.2.1.49A		-	
PLCCH Parameters		01	5.2	Applicable to 1.28Mcps TDD only	YES	ignore

>Max PLCCH Power	0		DL Power 9.2.1.21		_	
Secondary CCPCH Parameters 7.68Mcps		01		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&gt;</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 [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	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

#### 9.1.14 UNBLOCK RESOURCE INDICATION

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		_	
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	M		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	M		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	М		9.2.1.29A		YES	ignore
Indicator  Cell Information		0 <maxce IlinNode B&gt;</maxce 			EACH	ignore
>C-ID	М	<i>B&gt;</i>	9.2.1.9		_	
>Configuration Generation ID	M		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 	6.26.1	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 Information		0 <maxs< th=""><th></th><th>See note 1</th><th>EACH</th><th>ignore</th></maxs<>		See note 1	EACH	ignore
information		CCPCHCe II>		below		
>>Secondary CCPCH Individual Information	М		Common		-	
Individual information			Physical			
			Channel Status			
			Information			
			9.2.1.13A			
>PCH Information	0		Common Transport		YES	ignore
			Channel			
			Status			
			Information 9.2.1.14B			
>PICH Information	0		Common		YES	ignore
			Physical Channel			
			Status			
			Information			
>FACH Information		0 <maxfa< td=""><td>9.2.1.13A</td><td></td><td>EACH</td><td>ignore</td></maxfa<>	9.2.1.13A		EACH	ignore
		CHCell>			LAOIT	ignore
>>FACH Individual Information	М		Common		_	
Information			Transport			
			Channel Status			
			Information			
			9.2.1.14B			
>PRACH Information		0 <maxp< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxp<>			EACH	ignore
		RACHCell >				
>>PRACH Individual	М		Common		_	
Information			Physical			
			Channel			
			Status Information			
			9.2.1.13A			
>RACH Information		0 <maxr< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxr<>			EACH	ignore
>>RACH Individual	M	ACHCell>	Common		_	
Information			Transport			
			Channel			
			Status			
			Information			
>AICH Information		0 <maxp< td=""><td>9.2.1.14B</td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxp<>	9.2.1.14B	Applicable to	EACH	ignore
		RACHCell		FDD only		3.12.0
A10/// "		>				
>>AICH Individual Information	M		Common		_	
inionia.com			Physical Channel			
			Status			
			Information			
N. d.H. d.d.			9.2.1.13A			
>Not Used 1	0		NULL	This item shall	_	
				not be used.		
				Ignore if received.		
>Not Used 2	0	1	NULL	This item shall	_	

	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		
			Channel	Applicable to		
			Status	3.84Mcps TDD		
			Information	only		
			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 TDD		
				only		
>>FPACH Individual	М		Common		_	
Information			Physical			
			Channel			
			Status			
			Information			
			9.2.1.13A			
>DwPCH Information	0		Common	Applicable to	YES	ignore
			Physical	1.28Mcps TDD		
			Channel	only		
			Status			
			Information			
			9.2.1.13A			
>HS-DSCH 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		
		Cell>				
>>Resource Operational State	М		9.2.1.52		_	
>>Availability Status	M		9.2.1.2			
>>UARFCN	0		9.2.1.65	Corresponds to	YES	ignore
			0.2.1.00	Nt [15]	. 20	igiloro
				Applicable to		
				1.28Mcps TDD		
				when using		
				multiple frequencies.		
>MICH Information	0		Common		YES	ignore
	~		Physical		123	igiloie
			Channel			
			Status			
			Information			
>E-DCH Resources		0	9.2.1.13A	Soo noto o	EACH	ignore
Information		0 <maxfr< td=""><td></td><td>See note 2</td><td>LACIT</td><td>gnore</td></maxfr<>		See note 2	LACIT	gnore
		equencyin		below		
>>Resource Operational	M	Cell>	9.2.1.52			
State	IVI		9.2.1.52	<u> </u>	_	
>>Availability Status	М		9.2.1.2		_	
>>UARFCN	0		9.2.1.65	Corresponds to	YES	ignore
				Nt [15]		
				Applicable to		
			1	1.28Mcps TDD		

				when using		
				multiple		
				frequencies.		
>PLCCH Information		0 <maxpl< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxpl<>		Applicable to	EACH	ignore
		CCHCell>		1.28Mcps TDD		
>>PLCCH Individual	1.			only		
>>PLCCH Individual Information	M		Common		_	
momaton			Physical Channel			
			Status			
			Information			
			9.2.1.13A			
>Primary CCPCH	0		Common		YES	ignore
Information 7.68Mcps			Physical Channel			
			Status			
			Information			
			7.68 Mcps			
>Secondary CCPCH		00	9.2.3.36		EACH	ignore
Information 7.68Mcps		0 <maxs CCPCHCe</maxs 			LACIT	ignore
·		11768>				
>>Secondary CCPCH	M	007	Common		_	
Individual Information			Physical			
7.68 Mcps			Channel Status			
			Information			
			7.68 Mcps			
DIOLLI ( di			9.2.3.36		\/=0	
>PICH Information 7.68Mcps	0		Common Physical		YES	ignore
7.00Wep3			Channel			
			Status			
			Information			
			7.68 Mcps 9.2.3.36			
>PRACH Information		0 <maxp< td=""><td>0</td><td></td><td>EACH</td><td>ignore</td></maxp<>	0		EACH	ignore
7.68Mcps		RACHCell				
		>				
>>PRACH Individual	M		Common		_	
Information 7.68Mcps			Physical Channel			
			Status			
			Information			
			7.68 Mcps 9.2.3.36			
>SCH Information	0		Common	TDD Sync	YES	ignore
7.68Mcps			Physical	Channel		
			Channel	Applicable to		
			Status Information	7.68Mcps TDD only		
			7.68 Mcps	J.",		
			9.2.3.36			
>MICH Information	0		Common		YES	ignore
7.68Mcps			Physical Channel			
			Status			
			Information			
			7.68 Mcps 9.2.3.36			
>E-RUCCH Information		0 <maxe-< td=""><td>5.2.0.00</td><td>3.84Mcps TDD</td><td>EACH</td><td>ignore</td></maxe-<>	5.2.0.00	3.84Mcps TDD	EACH	ignore
		RUCCHCe		only		
	<u></u>	<i>II&gt;</i>				
>>E-RUCCH Individual	М		Common		_	
Information			<u> </u>	<u> </u>		<u> </u>

			T	1		
			Physical			
			Channel			
			Status			
			Information			
			9.2.1.13A			
>E-RUCCH Information		0 <maxe-< td=""><td></td><td>7.68Mcps TDD</td><td>EACH</td><td>ignore</td></maxe-<>		7.68Mcps TDD	EACH	ignore
7.68Mcps		RUCCHCe		only		
		<i>II&gt;</i>				
>>E-RUCCH Individual	М		Common		_	
Information 7.68Mcps	1		Physical			
			Channel			
			Status			
			Information			
			7.68 Mcps			
>UARFCN Information			9.2.3.36		EACH	:
LCR		0 <maxfr< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxfr<>		Applicable to	EACH	ignore
LOK		equencyin		1.28Mcps TDD		
		Cell>		when using		
				multiple		
				frequencies.		
>>UARFCN	M		9.2.1.65	Corresponds to	_	
				Nt [15]		
>>Resource Operational	М		9.2.1.52		_	
State						
>>Availability Status	М		9.2.1.2		_	
>UpPCH Information LCR		0 <maxfr< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxfr<>		Applicable to	EACH	ignore
_		equencyin		1.28Mcps TDD		J
		Cell>		only.		
>>UARFCN	0	OCII>	9.2.1.65	Mandatory for		
			9.2.1.00			
				1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
				Corresponds to		
				Nt [15]		
>>UpPCH Position LCR	M		9.2.3.4Q		_	
>>Resource Operational	M		9.2.1.52		_	
State						
>>Availability Status	М		9.2.1.2		_	
Communication Control		0 <maxc< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxc<>			EACH	ignore
Port Information		CPinNode				
		B>				
>Communication Control	М		9.2.1.15		_	
Port ID	<u> </u>	<u> </u>	5.2.1.10			
>Resource Operational	M		9.2.1.52		_	
State						
>Availability Status	M		9.2.1.2		_	
Local Cell Information		0 <maxlo< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxlo<>			EACH	ignore
		calCellinN				
		ode B>				
>Local Cell ID	М		9.2.1.38		_	
>DL Or Global Capacity	M		9.2.1.20B		_	
Credit						
>UL Capacity Credit	0		9.2.1.65A		_	
>Common Channels	M		9.2.1.9A		_	
Capacity Consumption Law						
>Dedicated Channels	M		9.2.1.20A		_	

Capacity Consumption Law			T			
>Maximum DL Power	0		9.2.1.39			
Capability			3.2.1.38		_	
>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	0		9.2.3.14A	TDD only	YES	ignore
Availability  >Power Local Cell Group ID	_		9.2.1.49B	TDD Offiny	YES	
	0		9.2.1.49B 9.2.1.31Ga			ignore
>HSDPA Capability	0		9.2.1.31Ga 9.2.1.70		YES YES	ignore
>E-DCH Capability >E-DCH TTI2ms Capability	C-		9.2.1.70 9.2.2.13V	FDD only	YES	ignore
>E-DCH Trizins Capability	EDCHCap ability		9.2.2.130	FDD Offly	163	ignore
>E-DCH SF Capability	C- EDCHCap ability		9.2.2.13W	FDD only	YES	ignore
>E-DCH HARQ Combining	C-		9.2.2.13X	FDD only	YES	ignoro
Capability	EDCHCap ability		9.2.2.13	FDD Offly	123	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	O		9.2.2.65	FDD only	YES	ignore
>MIMO Capability	0		9.2.2.70	FDD only	YES	ignore
>SixtyfourQAM DL Capability	0		9.2.2.74	FDD only	YES	ignore
>MBMS Capability	0		9.2.1.86		YES	ignore
>Enhanced FACH Capability	0		9.2.2.86	FDD only	YES	ignore
>Enhanced PCH Capability	C- Enhanced FACHCap ability		9.2.2.87	FDD only	YES	ignore
>SixteenQAM UL Capability	O		9.2.2.88	FDD only	YES	ignore
>HS-DSCH MAC-d PDU Size Capability	0		9.2.1.31IC	FDD Offig	YES	ignore
>MBSFN Only Mode	0		9.2.3.71	1.28Mcps TDD	YES	ignore
>F-DPCH Slot Format	0		9.2.2.94	only FDD only	YES	ignore
Capability Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>Local Cell Group ID	N.4	UUU D>	0.04.074			
>DL Or Global Capacity	M M		9.2.1.37A 9.2.1.20B			
Credit	_					
>UL Capacity Credit	0		9.2.1.65A		_	
>Common Channels Capacity Consumption Law	М		9.2.1.9A		_	
>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
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Power Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>Power Local Cell Group ID	М		9.2.1.49B		1	
>Maximum DL Power Capability	М		9.2.1.39		_	

- 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
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".

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	М		9.2.1.45		_	
Message Type	M		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

## 9.1.18 COMMON 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	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&gt;</maxno 			GLOBAL	ignore
>>>CHOICE Neighbouring Cell Measurement Information					-	
>>>>Neighbouring FDD Cell Measurement Information				FDD only		
>>>>Neighbouring FDD Cell Measurement Information	M		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	Mandatory for 1.28Mcps TDD when using	YES	reject

			multiple frequencies and the requested common measurement type is the one except for "HS- DSCH Required Power" or "HS- DSCH Provided Bit Rate". Corresponds to Nt [15]		
>>UpPCH Position LCR	0	9.2.3.4Q	Applicable to 1.28Mcps TDD only	YES	reject
>RACH			FDD only		
>>C-ID	M	9.2.1.9		_	
>>Common Transport Channel ID	M	9.2.1.14		_	
>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	M	9.2.1.49B		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	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	0	9.2.1.53c		YES	reject
Reference Received Total Wide Band Power Reporting	0	9.2.2.39C	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
maxnoMeasNCells	Maximum number of neighbouring cells that can be measured on.

#### 9.1.19 COMMON 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	М		9.2.1.62		_	,
Measurement ID	М		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type	0			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell						
>>Common Measurement Value	М		9.2.1.12		_	
>RACH				FDD only		
>>Common Measurement Value	M		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
SFN	0		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Common Measurement Achieved Accuracy	0		Common Measureme nt Accuracy 9.2.1.9B		YES	ignore
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.

#### 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		_	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type	М			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell						
>>Common Measurement Value Information	M		9.2.1.12A		_	
>RACH				FDD only		
>>Common Measurement Value Information	M		9.2.1.12A		_	
>Not Used			NULL	This choice shall not be used.		
>Additional Common Measurement Object Types				See Note 1		
>>Power Local Cell Group					_	
>>>Common Measurement Value Information	М		9.2.1.12A		YES	ignore
SFN	0		9.2.1.53A	Common Measurement Time Reference	YES	ignore
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 ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

#### 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	М		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 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		_	
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 [14]	YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nd [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	M		9.2.2.34	YES	reject
Synchronisation	IVI	1	9.2.2.34	YES	reject
Configuration		,		ILO	reject
>N_INSYNC_IND	М		9.2.1.47A		
>N_OUTSYNC_IND	M		9.2.1.47A 9.2.1.47B		
>T_RLFAILURE	M		9.2.1.56A		
DL TPC Pattern 01 Count	M		9.2.1.30A 9.2.2.13A	YES	reject
Primary SCH Information	IVI	1	9.Z.Z.13A	YES	
>Common Physical	M	1	9.2.1.13	163	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	М		9.2.1.13	_	_
Channel ID		<u>                                     </u>			
>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	М		9.2.2.53	_	
Indicator					
Secondary CPICH		0 <maxs< td=""><td></td><td>EACH</td><td>reject</td></maxs<>		EACH	reject
Information		CPICHCell			-
		>			
>Common Physical	M		9.2.1.13	_	
Channel ID					
>DL Scrambling Code	M		9.2.2.13	_	
>FDD DL Channelisation	М		9.2.2.14	_	
Code Number					
>Secondary CPICH Power	M		DL Power 9.2.1.21	_	
>Transmit Diversity	М		9.2.2.53		
Indicator	I IVI		3.2.2.33	_	
Primary CCPCH		1		YES	reject
Information		,		120	10,000
>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	141	1	J.L.L.TU	YES	reject
Information		'		123	10,000
>Power_Raise_Limit	М		9.2.2.29A	_	
>DL_power_averaging_win	M		9.2.2.12A	_	
dow_size			,		
IPDL Parameter Information		01		YES	reject
>IPDL FDD Parameters	М		9.2.2.18C	_	,
>IPDL Indicator	M		9.2.1.36F	_	
Cell Portion Information		0 <maxno ofCellPorti ons&gt;</maxno 		EACH	reject
>Cell Portion ID	M	0110/	9.2.2.1Ca	_	
>Associated Secondary	M		Common		
CPICH	IVI		Physical Channel ID	-	
			9.2.1.13		

	>Maximum Transmission Power for Cell Portion	М	Maximum Transmissio n Power 9.2.1.40	-	
ſ	MIMO Pilot Configuration	0	9.2.2.73	YES	reject

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	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		ı	
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
UARFCN	M		9.2.1.65	Corresponds to Nt [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 [19].	YES	reject
Maximum Transmission Power	М		9.2.1.40		YES	reject
Transmission Diversity Applied	M		9.2.3.26		YES	reject
Sync Case	M		9.2.3.18		YES	reject
Synchronisation Configuration		1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		_	
>N_OUTSYNC_IND	M		9.2.1.47B		_	
>T_RLFAILURE	М		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	М		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PRACH Constant Value	М		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 Channel ID	M		9.2.1.13			
>CHOICE Sync Case	M				YES	reject
>>Case 1						
>>>Time Slot	M		9.2.3.23		_	
>>Case 2						
>>>SCH Time Slot	M		9.2.3.17		-	

>SCH Power	М		DL Power		_	
			9.2.1.21			
>TSTD Indicator	M		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	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	М		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	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 configuration of Primary Frequency.	GLOBAL	reject
>Time Slot LCR	М		9.2.3.24A	, ,	_	
>Time Slot Status	М		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 [19].	YES	reject
>Common Physical Channel ID	М		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	М		9.2.1.64		_	
>DwPCH Power	M		9.2.3.5B			
Reference SFN Offset	0		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	M		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.	-	
>TDD Physical Channel Offset	М		9.2.3.20		_	
>Repetition Period	М		9.2.3.16		_	
>Repetition Length	М		9.2.3.15		_	
>PCCPCH Power	М		9.2.3.9		_	
>SCTD Indicator	М		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	NA.		0.0.00			
>>>Time Slot >>Case 2	M	1	9.2.3.23		_	
>>>SCH Time Slot	M		9.2.3.17		_	
>SCH Power	M		DL Power			
>5CITT OWEI	IVI		9.2.1.21		_	
>TSTD Indicator	M		9.2.1.64		_	
MBSFN Only Mode Indicator			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
UARFCN Information LCR		0 <maxfreq uencyinCe II-1&gt;</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	М		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency.	_	
>Time Slot Configuration LCR		17		This IE indicates the Time Slot	_	

			configuration of a Secondary Frequency.		
>>Time Slot LCR	М	9.2.3.24		_	
>>Time Slot Status	М	9.2.3.25		-	
>>Time Slot Direction	М	9.2.3.24		-	
>>Time Slot Parameter ID	0	Cell Parame ID	ter	YES	reject
		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	M		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	М		9.2.1.45		_	
Message Type	М		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

# 9.1.27 CELL RECONFIGURATION REQUEST

## 9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62			. 0,000
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Maximum Transmission Power	O		9.2.1.40		YES	reject
Synchronisation		01			YES	reject
Configuration					0	. 0,001
>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 Channel ID	М		9.2.1.13		_	
>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			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 &gt;</maxs 			EACH	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>Secondary CPICH Power	М		DL Power 9.2.1.21		_	
Primary CCPCH		01			YES	reject
Information						
>BCH Information		1			_	
>>Common Transport Channel ID	М		9.2.1.14		_	
>>BCH Power	M		DL Power 9.2.1.21		_	
IPDL Parameter Information		01			YES	reject
>IPDL FDD Parameters	0		9.2.2.18C		_	
>IPDL Indicator	М		9.2.1.36F		_	
Cell Portion Information		0 <maxno ofCellPorti ons&gt;</maxno 			EACH	reject
>Cell Portion ID	М	01102	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

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	М		9.2.1.62		_	,
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Synchronisation Configuration		01			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		-	
>N_OUTSYNC_IND	M		9.2.1.47B		_	
>T_RLFAILURE	M		9.2.1.56A		_	
Timing Advance Applied SCH Information	0	01	9.2.3.22A	Applicable to 3.84Mcps TDD only	YES YES	reject 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 [19].	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>PCCPCH Power	М		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	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	V.2.U.T	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or	GLOBAL	reject

T.68Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary Frequency.    Time Slot LCR	>Time Slot Status >Time Slot Direction	М			If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the		
	>Time Slot Status >Time Slot Direction	М			frequencies exist within the cell indicated by C-ID, this IE indicates the		
Exist within the cell indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary Frequency.	>Time Slot Status >Time Slot Direction	М			exist within the cell indicated by C-ID, this IE indicates the		
Cell indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary Frequency.	>Time Slot Status >Time Slot Direction	М			cell indicated by C-ID, this IE indicates the		
C-ID, this IE indicates the Time Slot reconfiguration of Primary	>Time Slot Status >Time Slot Direction	М			C-ID, this IE indicates the		
C-ID, this IE indicates the Time Slot reconfiguration of Primary	>Time Slot Status >Time Slot Direction	М			C-ID, this IE indicates the		
STime Slot LCR	>Time Slot Status >Time Slot Direction	М			indicates the		
Time Slot teconfiguration of Primary Frequency.	>Time Slot Status >Time Slot Direction	М					
STIME Slot LCR	>Time Slot Status >Time Slot Direction	М			Tillie Siot		
STime Slot LCR	>Time Slot Status >Time Slot Direction	М					
STIME Slot LCR	>Time Slot Status >Time Slot Direction	М					
STime Slot LCR	>Time Slot Status >Time Slot Direction	М					
STime Slot Status	>Time Slot Status >Time Slot Direction	М			Frequency.		
STIME Slot Direction	>Time Slot Direction			9.2.3.24A		_	
STIME Slot Direction	>Time Slot Direction		•	9.2.3.25		_	
DwPCH Information						_	
1.28Mcps TDD   1.28	DWI OII IIIOIIIIIIIII		0.1	0.2.0.2	Applicable to	YES	reject
Scommon Physical Channel ID			07		1.28Mcps TDD	120	10,000
Channel ID         DWPCH Power         M         9.2.3.5B         —           IPDL Parameter Information         01         Applicable to 3.84Mcps TDD and 7.68Mcps TDD and 7.68Mcps TDD only         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         9.2.3.5H         —<	>Common Physical	М		9.2.1.13		_	
SDWPCH Power   M	Channel ID			3.20			
PDL Parameter Information		NA		0 2 2 ED			
3.84Mcps TDD   and 7.68Mcps   TDD only		IVI		y.∠.ა.5B	A 1: 1.1 :		
and 7.68Mcps   TDD only	IPDL Parameter Information		<i>U</i> 1			YES	reject
TDD only							
TDD only							
>IPDL TDD Parameters         O         9.2.3.5D         —           >IPDL Indicator         M         9.2.1.36F         —           IPDL Parameter Information LCR         O1         Applicable to 1.28Mcps TDD only         YES         reject           >IPDL TDD Parameters LCR         O         9.2.3.5H         —         —           >IPDL Indicator         M         9.2.1.36F         —         —           SCH Information 7.68Mcps         O1         Applicable to 7.68Mcps TDD only         YES         reject           >Common Physical Channel ID 7.68Mcps         M         9.2.3.33         —         —           >SCH Power         M         DL Power 9.2.1.21         —         —           PCCPCH Information         O1         Applicable to YES         reject							
N	>IPDL TDD Parameters	0		9.2.3.5D	<del>                                     </del>	_	
IPDL Parameter Information   01							
LCR			0.1	3.2.1.30	Applicable 45	VEC	roio -t
Only   SIPDL TDD Parameters   O   9.2.3.5H   -			0 1			YES	reject
>IPDL TDD Parameters         O         9.2.3.5H         —           LCR         >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         M         DL Power 9.2.1.21         —         —           PCCPCH Information         01         Applicable to         YES         reject	LUK						
LCR         JPDL 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         M         DL Power 9.2.1.21         —         —           PCCPCH Information         01         Applicable to         YES         reject		<u> </u>			only		
>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         M         DL Power 9.2.1.21         —           PCCPCH Information         01         Applicable to         YES reject	>IPDL TDD Parameters	0		9.2.3.5H	T	_	
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         M         DL Power 9.2.1.21         —         —           PCCPCH Information         01         Applicable to         YES         reject	LCR						
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         M         DL Power 9.2.1.21         —         —           PCCPCH Information         01         Applicable to         YES         reject		М		9.2.1.36F		_	
7.68Mcps TDD		1	0 1	5.2.1.551	Annlicable to	YES	reject
Only   Only	3CH IIIIOIIIIation 7.00Micps		0 1			ILS	Тејесі
>Common Physical Channel ID 7.68Mcps         M         9.2.3.33         -           >SCH Power         M         DL Power 9.2.1.21         -           PCCPCH Information         01         Applicable to         YES         reject					- I		
Channel ID 7.68Mcps         DL Power         -           >SCH Power         M         DL Power         -           9.2.1.21         PCCPCH Information         01         Applicable to         YES         reject					only		
>SCH Power         M         DL Power 9.2.1.21         —           PCCPCH Information         01         Applicable to         YES         reject		M		9.2.3.33		_	
PCCPCH Information         9.2.1.21         Applicable to         YES         reject							
PCCPCH Information         01         Applicable to         YES         reject	>SCH Power	M		DL Power		_	
PCCPCH Information         01         Applicable to         YES         reject				9.2.1.21			
	PCCPCH Information		0.1		Applicable to	YES	reject
			01			120	10,000
	7.00MCp3						
One only	Commercial Discost	N.4		0.0.0.00	Unity		
>Common Physical M 9.2.3.33 -		IVI		9.2.3.33		_	
Channel ID 7.68Mcps							
			1	10000	i	_	ĺ
CHOICE UARFON O Applicable to YES reject		M		9.2.3.9			
				9.2.3.9	Applicable to	YES	reiect
	CHOICE UARFCN			9.2.3.9	Applicable to 1.28Mcps TDD	YES	reject
				9.2.3.9	1.28Mcps TDD	YES	reject
	CHOICE UARFCN			9.2.3.9	1.28Mcps TDD when using	YES	reject
	CHOICE UARFCN			9.2.3.9	1.28Mcps TDD when using multiple	YES	reject
	CHOICE UARFCN Adjustment			9.2.3.9	1.28Mcps TDD when using	YES	reject
>>UARFCN Information 1 -	CHOICE UARFCN Adjustment >Add			9.2.3.9	1.28Mcps TDD when using multiple	YES	reject
To Add LCR	CHOICE UARFCN Adjustment		1	9.2.3.9	1.28Mcps TDD when using multiple	YES -	reject
	CHOICE UARFCN Adjustment  >Add >>UARFCN Information		1	9.2.3.9	1.28Mcps TDD when using multiple	YES -	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies	YES -	reject
	CHOICE UARFCN Adjustment  >Add >>UARFCN Information		1	9.2.3.9	1.28Mcps TDD when using multiple frequencies  Corresponds to	YES -	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15]	YES	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE	YES	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the	YES	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a	YES	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary	YES - -	reject
add.	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a	YES -	reject
	CHOICE UARFCN Adjustment  >Add  >>UARFCN Information To Add LCR	0	1		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to	YES -	reject
	>Add >>UARFCN Information To Add LCR >>>UARFCN	0			1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add.	YES -	reject
	>Add >SUARFCN Information To Add LCR >>>UARFCN >>>UARFCN	0	17		1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add. This IE	YES -	reject
	>Add >>UARFCN Information To Add LCR >>>UARFCN	0			1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add. This IE indicates the	YES -	reject
Time Slot	>Add >SUARFCN Information To Add LCR >>>UARFCN >>>UARFCN	0			1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add.  This IE indicates the Time Slot	YES -	reject
Time Slot configuration of	>Add >SUARFCN Information To Add LCR >>>UARFCN >>>UARFCN	0			1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add.  This IE indicates the Time Slot configuration of	YES -	reject
Time Slot	>Add >SUARFCN Information To Add LCR >>>UARFCN >>>UARFCN	0			1.28Mcps TDD when using multiple frequencies  Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add.  This IE indicates the Time Slot configuration of a Secondary	YES -	reject

				add.		
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>>Time Slot Status	М		9.2.3.25		_	
>>>>Time Slot Direction	М		9.2.3.24		-	
>Modify						
>>UARFCN Information To Modify LCR		1 <maxfreq uencyinCe II-1&gt;</maxfreq 		there could be several secondary frequencies	1	
>>>UARFCN	М		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to modify.	I	
>>>Time Slot Configuration LCR		17		This IE indicates the Time Slot reconfiguration of a Secondary Frequency to modify.	ŀ	
>>>>Time Slot LCR	M		9.2.3.24A	•	_	
>>>>Time Slot Status	M		9.2.3.25		_	
>>>>Time Slot Direction	М		9.2.3.24		-	
>Delete >>UARFCN Information To Delete LCR		1			-	
>>>UARFCN	М		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of Secondary Frequency to delete.	-	

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	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

## 9.1.29 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	M		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	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		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&gt;</max 			EACH	ignore
>>>Local Cell ID	М	Node B>	9.2.1.38		_	
>>>Add/Delete Indicator	M		9.2.1.1		_	
>>>DL Or Global	C-add		9.2.1.20B		_	
Capacity Credit						
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels	C-add		9.2.1.9A		_	
Capacity Consumption Law						
>>>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	O		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	0		9.2.3.60	TDD only	YES	ignore
>>>Continuous Packet Connectivity DTX-DRX	0		9.2.2.64	FDD only	YES	ignore
Capability >>>Max UE DTX Cycle	C-DTX- DRXCapa bility		9.2.2.95	FDD only	YES	ignore
>>>Continuous Packet Connectivity HS-SCCH	0		9.2.2.65	FDD only	YES	ignore

less Capability						
>>>MIMO Capability	0		9.2.2.70	FDD only	YES	ignore
>>>SixtyfourQAM DL	0		9.2.2.74	FDD only	YES	ignore
Capability						
>>>MBMS Capability	0		9.2.1.86		YES	ignore
>>>Enhanced FACH	0		9.2.2.86	FDD only	YES	ignore
Capability						
>>>Enhanced PCH	C-		9.2.2.87	FDD only	YES	ignore
Capability	Enhanced					
	FACHCap					
0.4.4.1.11	ability O		9.2.2.88	FDD only	YES	ignore
>>>SixteenQAM UL			9.2.2.00	FDD Offig	123	ignore
Capability	0		9.2.1.31IC		YES	ignore
>>>HS-DSCH MAC-d			9.2.1.3110		123	ignore
PDU Size Capability	0		9.2.3.71	1.28Mcps TDD	YES	ignore
>>>MBSFN Only Mode			9.2.3.71	only	123	ignore
Capability	0		9.2.2.94	FDD only	YES	ignore
>>>F-DPCH Slot			9.2.2.94	1 DD Offiny	123	ignore
Format Capability		0 <maxlo< td=""><td></td><td> </td><td>EACH</td><td>ignore</td></maxlo<>			EACH	ignore
>>Local Cell Group Information		calCellinN			LACIT	ignore
information		ode B>				
>>>Local Cell Group ID	М		9.2.1.37A		_	
>>>DL Or Global	М		9.2.1.20B		_	
Capacity Credit						
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels	М		9.2.1.9A		_	
Capacity Consumption						
Law						
>>>Dedicated Channels	М		9.2.1.20A		_	
Capacity Consumption						
Law						
>>>E-DCH Capacity	0		9.2.2.13Ja	FDD only	YES	ignore
Consumption Law						
>>>E-DCH TDD	0		9.2.3.60	TDD only	YES	ignore
Capacity Consumption						
Law						
>>Power Local Cell		0 <maxlo< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxlo<>			EACH	ignore
Group Information		calCellinN				
	8.4	ode B>	0.0.4.400			
>>>Power Local Cell	M		9.2.1.49B		_	
Group ID	N/A		0.04.00			
>>>Maximum DL Power	М		9.2.1.39		_	
Capability			1			
>Service Impacting		O smard s			F^0!!	!a :
>>Local Cell Information		0 <maxlo calCellinN</maxlo 			EACH	ignore
		ode B>				
>>>Local Cell ID	М		9.2.1.38		_	
>>>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						
>>>Maximum DL Power	0		9.2.1.39		_	
F F F INIGAMINATION DE L'OWEI	ĺ	I	-	1		

>>>Minimum Spreading Factor	0		9.2.1.47		_	
>>>Minimum DL Power Capability	0		9.2.1.46A		_	
>>>Reference Clock Availability	0		9.2.3.14A	TDD only	YES	ignore
>>>HSDPA Capability	0		9.2.1.31Ga		YES	ignore
>>>E-DCH Capability	0		9.2.1.70		YES	ignore
>>>E-DCH TTI2ms	C-		9.2.2.13V	FDD only	YES	ignore
Capability	EDCHCap ability					3
>>>E-DCH SF	C-		9.2.2.13W	FDD only	YES	ignore
Capability	EDCHCap ability				\( (= 0)	
>>>E-DCH HARQ	C-		9.2.2.13X	FDD only	YES	ignore
Combining Capability	EDCHCap ability O		9.2.2.13Ja	FDD only	YES	ignoro
>>>E-DCH Capacity	0		9.2.2.13Ja	FDD only	150	ignore
Consumption Law			0.0.0.160		YES	ignoro
>>>F-DPCH Capability	0		9.2.2.16a	TDD only	YES	ignore
>>>E-DCH TDD	O		9.2.3.60	100 only	YES	ignore
Capacity Consumption						
Law			0.0004	EDD	\/F0	
>>>Continuous Packet	0		9.2.2.64	FDD only	YES	ignore
Connectivity DTX-DRX						
Capability						
>>>Max UE DTX Cycle	C-DTX- DRXCapa bility		9.2.2.95	FDD only	YES	ignore
>>>Continuous Packet	O		9.2.2.65	FDD only	YES	ignore
Connectivity HS-SCCH			0.2.2.00	1 22 01		ignoro
less Capability						
	0		9.2.2.70	FDD only	YES	ignore
>>>MIMO Capability	0		9.2.2.74	FDD only	YES	ignore
>>>SixtyfourQAM DL Capability			0.2.2.7	1 DD Only	120	ignore
>>>MBMS Capability	0		9.2.1.86		YES	ignore
>>>Enhanced FACH	0		9.2.2.86	FDD only	YES	ignore
Capability						-
>>>Enhanced PCH	C-		9.2.2.87	FDD only	YES	ignore
Capability	Enhanced FACHCap ability					
>>>SixteenQAM UL Capability	0		9.2.2.88	FDD only	YES	ignore
>>>HS-DSCH MAC-d	0		9.2.1.31IC		YES	ignore
PDU Size Capability			000=	4.001: ====	),=6	<u> </u>
>>>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
>>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		_	
>>>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						

			T			
>>>Dedicated Channels Capacity Consumption Law	0		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
>>Communication Control Port Information		0 <maxc CPinNode B&gt;</maxc 			EACH	ignore
>>>Communication Control Port ID	М		9.2.1.15		_	
>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	М		9.2.1.2		_	
>>Cell Information		0 <maxce IlinNode B&gt;</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 &gt;</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</maxs 		See note 1 below	EACH	ignore

		>				
>>>Secondary CCPCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>>>PCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>FACH Information		0 <maxfa CHCell&gt;</maxfa 			EACH	ignore
>>>FACH Individual Information	М		Common Transport Channel Status Information 9.2.1.14B		_	
>>>PRACH Information		0 <maxp RACHCell &gt;</maxp 			EACH	ignore
>>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>RACH Information		0 <maxp RACHCell &gt;</maxp 			EACH	ignore
>>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>AICH Information		0 <maxp RACHCell &gt;</maxp 		FDD only	EACH	ignore
>>>>AICH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>>>Not Used 1	0		NULL	This item shall not be used. Ignore if received.	_	
>>>Not Used 2	0		NULL	This item shall 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 Physical Channel Status Information 9.2.1.13A	Applicable to 3.84Mcps TDD only	YES	ignore
>>>FPACH Information		0 <maxfp ACHCell&gt;</maxfp 		Applicable to 1.28Mcps TDD only	EACH	ignore
>>>>FPACH Individual Information	M		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&gt;</maxfreq 		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 [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&gt;</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 [15] Applicable to 1.28Mcps TDD when using multiple frequencies.	YES	ignore
>>>PLCCH Information		0 <maxpl CCHCell&gt;</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 7.68Mcps 9.2.3.36		YES	ignore
>>>Secondary CCPCH Information 7.68Mcps		0 <maxs CCPCHCe II768&gt;</maxs 			EACH	ignore
>>>Secondary CCPCH Individual Information 7.68Mcps	M		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	ignore
>>>PRACH Information 7.68Mcps		0 <maxp RACHCell &gt;</maxp 			EACH	ignore
>>>>PRACH Individual Information 7.68Mcps	М		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		I	
>>>SCH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68Mcps 9.2.3.36	Applicable to 7.68Mcps TDD only	YES	ignore
>>>MICH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		YES	ignore
>>>E-RUCCH Information		0 <maxe- RUCCHCe II&gt;</maxe- 		Applicable to 3.84Mcps TDD only	EACH	ignore
>>>E-RUCCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>>>E-RUCCH Information 7.68Mcps		0 <maxe- RUCCHCe II&gt;</maxe- 		Applicable to 7.68Mcps TDD only	EACH	ignore
>>>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&gt;</maxfr 		Applicable to 1.28Mcps TDD when using multiple frequencies.	EACH	ignore
>>>UARFCN	М		9.2.1.65	Corresponds to Nt [15]	_	
>>>Resource Operational State	М		9.2.1.52		-	
>>>Availability Status	М		9.2.1.2		-	
>>>Cause	0		9.2.1.6		_	
>>>UpPCH Information LCR		0 <maxfr equencyin Cell&gt;</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 [15]	Г	
>>>>UpPCH Position LCR	М		9.2.3.4Q		_	
>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	М		9.2.1.2		-	
>>Power Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</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".

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 &gt;</maxib 			GLOBAL	reject
>IB Type	M		9.2.1.35		_	
>IB OC ID	М		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&gt;</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 IB Type 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	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

#### 9.1.35 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	M		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	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	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	M		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	М		9.2.1.58	For UL	_	
>UL DPCCH Slot Format	М		9.2.2.57		_	
>UL SIR Target	М		UL SIR		-	
			9.2.1.67A			
>Diversity Mode	M		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 E-DPCH Information IE	YES	reject
DL DPCH Information		01			YES	reject
>TFCS	М		9.2.1.58	For DL	1	
>DL DPCH Slot Format	M		9.2.2.10		ı	
>TFCI Signalling Mode	M		9.2.2.50		-	
>TFCI Presence	C- SlotFormat		9.2.1.57		_	
>Multiplexing Position	M		9.2.2.23		_	
>Not Used	0		NULL		-	
>Not Used	0		NULL		1	
>Power Offset		1			_	
Information						
>>PO1	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>PO2	M		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	М		9.2.2.16		_	
>Limited Power Increase	M		9.2.2.18A		_	
>Inner Loop DL PC Status	M		9.2.2.18B		_ VE2	: (
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>			I	1
>RL ID	М	OIT LS>	9.2.1.53		_	
>C-ID	M		9.2.1.9		_	
>First RLS Indicator	M		9.2.2.16A		_	
>Frame Offset	M		9.2.1.31		_	
>Chip Offset	M		9.2.2.2		_	
>Propagation Delay	0		9.2.2.35		_	
>Diversity Control Field	C-		9.2.1.25		_	
>biversity Control Fleid	NotFirstRL		0.2.1.20			
>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	M		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	C-Diversity		9.2.2.53		_	
Indicator	mode					
>RL Specific DCH	0		9.2.1.53G		YES	ignore
Information						
>Delayed Activation	0		9.2.1.24C		YES	reject
>Primary CPICH Usage For	0		9.2.2.33A		YES	ignore
Channel Estimation					7/20	
>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 Information	0		9.2.2.39a		YES	ignore
>Synchronisation Indicator	0		9.2.2.48A		YES	ignore
>Extended Propagation Delay	0		9.2.2.35A		YES	ignore
>F-DPCH Slot Format	0		9.2.2.93		YES	reject
Transmission Gap Pattern	0		9.2.2.53A		YES	reject
Sequence Information						
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
DL Power Balancing Information	0		9.2.2.12B		YES	ignore
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- InfoHSDS CH		RL ID 9.2.1.53		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E-	М		9.2.2.20C		-	
DPDCHs	1					

	T	I	100450	T		T
>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	M		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	М		9.2.2.18Ca		_	
Indicator						
E-DCH FDD Information	C-		9.2.2.13Da		YES	reject
	EDPCHInf					-
	0					
Serving E-DCH RL	0		9.2.2.48B		YES	reject
F-DPCH Information		01			YES	reject
>Power Offset		1			_	
Information						
>>PO2	M		Power	This IE shall be	_	
			Offset	ignored by		
>FDD TPC DL Step Size	M		9.2.2.29 9.2.2.16	Node B.	_	
>Limited Power Increase	M		9.2.2.18A			
>Inner Loop DL PC Status	M		9.2.2.18B			
Initial DL DPCH Timing	O		9.2.2.18K		YES	ignore
Adjustment Allowed			0.2.2		0	.9
DCH Indicator For E-DCH-	0		9.2.2.4F		YES	reject
HSDPA Operation			0.2.2.11		120	10,000
•	0		CFN		YES	reject
Serving Cell Change CFN			9.2.1.7		ILS	16,600
Continuous Packet	0		9.2.2.66		YES	reject
Connectivity DTX-DRX						
Information						
Continuous Packet	0		9.2.2.68		YES	reject
Connectivity HS-SCCH less					_	,
Information						
IIIIOIIIIalioii						

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

# 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	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	reject
UL CCTrCH Information		0 <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	M		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	M		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	M		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&gt;</maxno 			EACH	notify
>CCTrCH ID	M		9.2.3.3			
>TFCS	M		9.2.1.58			
>TFCI Coding	M		9.2.3.22		_	
>Puncture Limit	M		9.2.1.50			
>TDD TPC DL Step Size	M		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		
				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	YES	notify
	N4		0.0.0.40	only		
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A			
>>DL Timeslot	М		9.2.3.40		-	
Information LCR	1					
>>TSTD Indicator	М		9.2.1.64		_	
>CCTrCH Initial DL	0		DL Power		YES	ignore
Transmission Power			9.2.1.21			
>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	Í	_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot	М		9.2.3.39		_	
Information 7.68Mcps						
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	М		9.2.1.53		_	
>C-ID	М		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 [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	0.4	9.2.1.53	7 COMerc TDD	YES	reject
E-DCH Information		01		7.68Mcps TDD only	YES	reject
<b>7.68Mcps</b> >E-PUCH Information	M		9.2.3.45	Only		
>E-TFCS Information TDD	M		9.2.3.46			
>E-DCH MAC-d Flows Information TDD	M		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	М		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 only	YES	ignore

Range Bound	Explanation
maxnoCCTrCH	Number of CCTrCHs for one UE

Condition	Explanation
InfoHSDSCH	The IE shall be present if HS-DSCH Information IE is present.

## 9.1.37 RADIO LINK SETUP RESPONSE

## 9.1.37.1 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		_	
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	M		9.2.1.15		YES	ignore
RL Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	M		9.2.2.39		_	
>Received Total Wide Band Power	M		9.2.2.39A		_	
>CHOICE Diversity	М				_	
Indication						
>>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
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 Connectivity HS-SCCH less Information Response	0		9.2.2.69		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs 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	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
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	M		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	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
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

## 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 Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>Cause	M		9.2.1.6		_	
>>Successful RL Information Response		0 <maxno ofRLs&gt;</maxno 	0.2.11.0	Note: There will never be maxnoofRLs repetitions of this sequence.	EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>RL Set ID	М		9.2.2.39		_	
>>>Received Total Wide Band Power	М		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	М		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 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
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

## 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	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	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	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&gt;</maxno 			EACH	notify
>RL ID	M		9.2.1.53		1	
>C-ID	M		9.2.1.9		_	
>Frame Offset	М		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		Т	
>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	1	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	1	
>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
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.18K		YES	ignore
Serving E-DCH RL	0		9.2.2.48B		YES	reject
Serving Cell Change CFN	0		CFN 9.2.1.7		YES	reject
HS-DSCH Serving Cell Change Information	0		9.2.2.18Eb		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	М		9.2.2.20C			

>Puncture Limit	M	9.2.1.50	_	
>E-TFCS Information	М	9.2.2.13Dh	-	
>E-TTI	M	9.2.2.13Di	ı	
>E-DPCCH Power Offset	M	9.2.2.13Dj	ı	
>E-RGCH 2-Index-Step	M	9.2.2.13lg	-	
Threshold				
>E-RGCH 3-Index-Step	M	9.2.2.13lh	-	
Threshold				
>HARQ Info for E-DCH	M	9.2.2.18ba	ı	
>HS-DSCH Configured	M	9.2.2.18Ca	YES	reject
Indicator				
E-DCH FDD Information	C-	9.2.2.13Da	YES	reject
	EDPCHInf			
	0			

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

# 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&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	M		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&gt;</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	1	Applicable to	YES	notify
LCR		J 1		1.28Mcps TDD only	120	Houry
>>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 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	9.2.1.21	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	М		9.2.3.19A		_	
>>DL Timeslot Information 7.68Mcps	М		9.2.3.39		ı	
RL Information		1			YES	reject
>RL ID	М		9.2.1.53		_	
>C-ID	М		9.2.1.9		_	
>Frame Offset	M		9.2.1.31		ı	
>Diversity Control Field	M		9.2.1.25		_	
>Initial DL Transmission Power	0		DL Power 9.2.1.21		1	
>Maximum DL Power	0		DL Power 9.2.1.21		_	
>Minimum DL Power	0		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	М		9.2.3.26H		1	
>>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 [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	O		RL ID 9.2.1.53		YES	reject
E-DCH Information		01	5.2.1100	3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.45		_	

	1		1			
>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		9.2.3.48		-	
Grant Information TDD						
>E-DCH TDD Information	M		9.2.3.49		-	
E-DCH Serving RL	0		9.2.1.53		YES	reject
E-DCH Information		01		7.68Mcps TDD	YES	reject
7.68Mcps				only		,
>E-PUCH Information	M		9.2.3.45	•	_	
>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	М		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	М		9.2.3.46		_	
>E-DCH MAC-d Flows	М		9.2.3.47		_	
Information TDD						
>E-DCH Non-scheduled	0		9.2.3.48a		_	
Grant Information LCR TDD						
>E-DCH TDD Information	М		9.2.3.49a		_	
LCR						
Power Control GAP	0		INTEGER	Unit: Number of	YES	ignore
			(1255)	subframes		Ü
			,	Applicable to		
				1.28Mcps TDD		
				only		
	l	1	1	· •··· <i>j</i>		

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	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		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
RL Information Response		1 <maxno ofRLs-1&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	M		9.2.2.39		_	
>Received Total Wide Band Power	М		9.2.2.39A		_	
>CHOICE Diversity Indication	М				_	
>>Combining			0.04.50	5 ( 5)		
>>>RL ID	M		9.2.1.53	Reference RL	-	
>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>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	M		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
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

Range Bound	Explanation
maxnoofRLs Maximum number of RLs 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	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	М		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	М		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	М		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	М		9.2.1.53	Reference RL	_	
>>>Non Combining						
>>>DCH Information Response	М		9.2.1.20C		_	
>DSCH Information Response	0		9.2.3.5b		YES	ignore

>USCH Information	0	9.2.3.29	YES	ignore
Response				
HS-DSCH Information	0	HS-DSCH	YES	ignore
Response		TDD		
		Information		
		Response		
		9.2.3.5G		
E-DCH Information Response	0	E-DCH	YES	ignore
		TDD		
		Information		
		Response		
		9.2.3.50		

## 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	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
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		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-1>				
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-2>				i give i
>>>RL ID	М		9.2.1.53		_	
>>>RL ID	M		9.2.2.39		_	
>>>RL Set ID	M		9.2.2.39A		_	
	IVI		3.2.2.33A			
Wide Band Power	M				_	
>>>CHOICE Diversity	IVI				_	
Indication						
>>>Combining			0.04.50	Deference DI		
>>>>RL ID	M		9.2.1.53	Reference RL	-	
>>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>>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
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	0	9.2.2.18Ed	YES	ignore
Information Response				

Range Bound Explanation	
maxnoofRLs Maximum number of RLs 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	М		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	М		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

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

#### FDD Message 9.1.42.1

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
<b>UL DPCH Information</b>		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	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	I	
>>>PO2	M		Power Offset 9.2.2.29	Power offset for the TPC bits	1	
>>PO3	М		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		<u> </u>	
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject
>DCH ID	M		9.2.1.20		_	
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	reject
>RL ID	M		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
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 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-DPCH Information		01			YES	reject

DPDCHS			1				I
SPUNCTURE LImit	>Maximum Set of E- DPDCHs	0		9.2.2.20C		_	
SE-TFCS Information		0		9.2.1.50		_	
SE-DPCCH Power Offset         O         9.2.2.13Dj         —           SE-RGCH 2-Index-Step         O         9.2.2.13lg         —           Threshold         SE-RGCH 3-Index-Step         O         9.2.2.13lh         —           SH-RGCH 3-Index-Step         O         9.2.2.18ba         —           Threshold         SH-DSCH Configured         O         9.2.2.18Ca         —           H-DSCH Configured Indicator         O         9.2.2.13Da         —           Indicator         E-DCH FDD Information         O         P.2.2.13Df         YES         reject           E-DCH FDD Information To Modify         O         9.2.2.13Df         YES         reject           E-DCH MAC-d Flows To Add         O         B.2.2.13M         YES         reject           E-DCH MAC-d Flows To Delete         9.2.2.13M         YES         reject           E-DCH Information         9.2.2.13M         YES         reject           F-DPCH Information         0.1         YES         reject           F-DPCH Information         0.1         YES         reject           Power Offset Information         0.1         YES         reject           PDP TPC DL Step Size         M         9.2.2.16         —      <						_	
SE-RGCH 2-Index-Step   O   Se-RGCH 3-Index-Step   Threshold   Se-RGCH 3-Index-Step   O   Se-RGCH 3-I	>E-TTI	0		9.2.2.13Di		_	
SE-RGCH 2-Index-Step   O   P.2.2.13lg   -	>E-DPCCH Power Offset	0		9.2.2.13Dj		_	
Threshold   SE-RGCH 3-Index-Step   O   P.2.2.13lh   -		0		9.2.2.13lg		_	
SE-RGCH 3-Index-Step   Threshold	-						
Threshold		0		9.2.2.13lh		_	
>HARQ Info for E-DCH         O         9.2.2.18ba         —           HS-DSCH Configured Indicator         O         9.2.2.18Ca         —           Indicator         PE-DCH FDD Information         O         E-DCH FDD Information         YES         reject           E-DCH FDD Information To Modify         O         9.2.2.13Df         YES         reject           E-DCH MAC-d Flows To Add         O         E-DCH MAC-d Flows To MAC							
SHS-DSCH Configured Indicator   Security		0		9.2.2.18ba		_	
Indicator	<del></del>	0		9.2.2.18Ca		_	
E-DCH FDD Information	_						
FDD		0		F-DCH		YES	reiect
September   Sept	E-DCH FDD IIIIOIIIIalioii					120	10,000
E-DCH FDD Information TO Modify   9.2.2.13Df   YES   reject				Information			
Modify   E-DCH MAC-d Flows To Add   O							
E-DCH MAC-d Flows To Add	E-DCH FDD Information To	0		9.2.2.13Df		YES	reject
MAC-d   Flows   Information   9.2.2.13M   YES   reject	Modify						
Flows   Information   9.2.2.13M	E-DCH MAC-d Flows To Add	0				YES	reject
Information   9.2.2.13M   YES   reject							
Serving E-DCH MAC-d Flows To   Delete   Serving E-DCH RL   O   9.2.2.48B   YES   reject							
E-DCH MAC-d Flows To Delete   Serving E-DCH RL   O   9.2.1.73   YES   reject							
Delete	E DOLLMAN STELLING TO	0				VES	reject
Serving E-DCH RL				9.2.1.73		123	reject
F-DPCH Information		0		0 2 2 49P		VEQ	roject
Power Offset   Information	•	0	0.1	9.2.2.400			-
Information	<u> </u>					150	reject
Note			1			_	
Offset   ignored by   Node B.				-	TI: IF 1 III		
9.2.2.29   Node B.	>>PO2	M				_	
>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         —           Fast Reconfiguration Mode         O         9.2.2.62         YES         ignore           CPC Information         O         9.2.2.62         YES         reject           >Continuous Packet         O         9.2.2.66         —         —           Connectivity DTX-DRX Information         O         9.2.2.67         —         —           Continuous Packet         O         9.2.2.68         —         —           Connectivity HS-SCCH less Information         O         9.2.2.69A         YES         reject           Connectivity HS-SCCH         O         9.2.2.69A         YES         reject							
Selimited Power Increase   M   9.2.2.18A   -	EDD TDC DI Stop Sizo	M			Node B.	_	
Sinner Loop DL PC Status   M   9.2.2.18B   -							
Fast Reconfiguration Mode         O         9.2.2.62         YES         ignore           CPC Information         O1         YES         reject           >Continuous Packet         O         9.2.2.66         _         _           Connectivity DTX-DRX Information         O         9.2.2.67         _         _           Connectivity DTX-DRX Information To Modify         O         9.2.2.68         _         _           >Continuous Packet         O         9.2.2.68         _         _           Connectivity HS-SCCH less Information         O         9.2.2.69A         YES         reject           Connectivity HS-SCCH         O         9.2.2.69A         YES         reject							
CPC Information         01         YES         reject           >Continuous Packet Connectivity DTX-DRX Information         0         9.2.2.66         —           >Continuous Packet Connectivity DTX-DRX Information To Modify         0         9.2.2.67         —           >Continuous Packet Connectivity HS-SCCH less Information         0         9.2.2.68         —           Connectivity HS-SCCH Connectivity HS-SCCH         0         9.2.2.69A         YES         reject	<del></del>					VEC.	ianoro
>Continuous Packet Connectivity DTX-DRX Information  >Continuous Packet Connectivity DTX-DRX Information To Modify  >Continuous Packet Connectivity HS-SCCH less Information  >Continuous Packet Connectivity HS-SCCH    Substitute		U		9.2.2.62		_	J
Connectivity DTX-DRX Information  >Continuous Packet Connectivity DTX-DRX Information To Modify  >Continuous Packet Connectivity HS-SCCH less Information  >Continuous Packet Connectivity HS-SCCH    Second			01	1		165	reject
Information  >Continuous Packet Connectivity DTX-DRX Information To Modify  >Continuous Packet Connectivity HS-SCCH less Information  >Continuous Packet Connectivity HS-SCCH    O		0		9.2.2.66		_	
>Continuous Packet       O       9.2.2.67       —         Connectivity DTX-DRX       Information To Modify       —       —         >Continuous Packet       O       9.2.2.68       —         Connectivity HS-SCCH       —       —         less Information       —       YES       reject         Connectivity HS-SCCH       —       —       —	=						
Connectivity DTX-DRX Information To Modify  >Continuous Packet Connectivity HS-SCCH less Information  >Continuous Packet Connectivity HS-SCCH  O 9.2.2.68  — YES reject Connectivity HS-SCCH	4		1	1			
Information To Modify  >Continuous Packet Connectivity HS-SCCH less Information  >Continuous Packet Connectivity HS-SCCH  Connectivity HS-SCCH  O  9.2.2.69A  YES  reject		0		9.2.2.67		_	
>Continuous Packet O 9.2.2.68 —  Connectivity HS-SCCH less Information							
Connectivity HS-SCCH less Information  >Continuous Packet Connectivity HS-SCCH  O 9.2.2.69A  YES reject	<del>1</del>						
less Information  >Continuous Packet Connectivity HS-SCCH  O 9.2.2.69A YES reject		0		9.2.2.68		_	
>Continuous Packet O 9.2.2.69A YES reject Connectivity HS-SCCH	Connectivity HS-SCCH						
Connectivity HS-SCCH	less Information						
	>Continuous Packet	0		9.2.2.69A		YES	reject
	Connectivity HS-SCCH						
	less Deactivate Indicator						

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

# 9.1.42.2 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		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	M		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&gt;</maxno 		See note 1 below	_	
>>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>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	М		9.2.3.26C		_	
>>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>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 LCR	M		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
>>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	1	_	
>>>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 Modify		0 <maxno ofCCTrCH s&gt;</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		_	
>UL DPCH To Modify Per		0 <maxno< td=""><td></td><td>See note 1</td><td>_</td><td></td></maxno<>		See note 1	_	
RL		ofRLs>		below		
>>UL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16	-	_	
>>>Repetition Length	M		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>UL Timeslot Information	М		9.2.3.26C		_	
>>UL DPCH To Modify		01			YES	reject
>>>Repetition Period	0		9.2.3.16		_	
>>>Repetition Length	0		9.2.3.15		_	
>>>TDD DPCH Offset	0		9.2.3.19A		_	
>>>UL Timeslot Information		0 <maxno ofULts&gt;</maxno 		Applicable to 3.84Mcps TDD only	_	
>>>>Time Slot	М		9.2.3.23	j	_	
>>>>Midamble Shift And Burst Type	0		9.2.3.7		_	
>>>TFCI Presence	0		9.2.1.57		_	
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDPCHs>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code		1		1 1 1 1	01.0041	
>>>UL Timeslot Information LCR		0 <maxno ofULtsLCR</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	М		9.2.3.24A	J	_	
>>>>Midamble Shift LCR	0		9.2.3.7A			
>>>>TFCI Presence	0		9.2.1.57		_	
>>>>UL Code Information LCR		0 <maxno ofDPCHsL CR&gt;</maxno 			-	
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD Channelisation Code LCR	0		9.2.3.19a		-	
>>>>TDD UL DPCH Time Slot Format LCR	0		9.2.3.21C		YES	reject
>>>PLCCH Information	0		9.2.3.31		YES	reject
>>>UL Timeslot Information 7.68Mcps		0 <maxno ofULts&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.35		-	
>>>>TFCI Presence	0		9.2.1.57		-	
>>>UL Code Information 7.68Mcps		0 <maxno ofDPCHs&gt;</maxno 			-	
>>>>DPCH ID	М	1	9.2.3.5		_	
· · · = · <b>J· · ·=</b>	i .	1	1	<u> </u>		

Channelisation Code			1			1	
SUL DPCH To Delete		0		9.2.3.34		_	
South   Sout	•					GLOBAL	reject
Source   S	>>>DPCH ID	М	0121 01101	9.2.3.5		_	
Some			01		1.28Mcps TDD	YES	reject
>>>Repetition Length	>>>Repetition Period	M		9.2.3.16		_	
DPCH Offset   M   9.2.3.19A   -		M		9.2.3.15		_	
South Timeslot Information LCR   South Control of Con	, ,	M		9.2.3.19A		_	
Information LCR		М		9.2.3.26E		_	
Solution   Solution							
See Note 1   See		0			1.28Mcps TDD	YES	reject
Applicable to 7.68Mcps	>>TDD TPC UL Step Size				1.28Mcps TDD		-
7.68Mcps	>>RL ID	0		9.2.1.53			ignore
See Note 1   See			01		7.68Mcps TDD	YES	reject
System   S	>>>Repetition Period	M		9.2.3.16		_	
>>>TDD DPCH Offset         M         9.2.3.19A         —           >>>UL Timeslot Information 7.68Mcps         M         9.2.3.38         —           UL CCTrCH To Delete         0 <maxno ofCCTrCH s&gt;         GLOBAL         reject           &gt;CCTrCH ID         M         9.2.3.3         —           &gt;CCTrCH ID         M         9.2.3.3         —           &gt;CCTrCH ID         M         9.2.3.3         —           &gt;TFCS         M         9.2.1.58         —           &gt;TFCI Coding         M         9.2.3.22         —           &gt;Puncture Limit         M         9.2.3.22         —           &gt;Puncture Limit         M         9.2.3.50         —           &gt;TPC CCTrCH List         0<maxno ofCCTrCH s&gt;         CCTrCH ID         CCTrCH ID         —           &gt;TPC CCTrCH ID         M         0<maxno ofRLs&gt;         See Note 1 below         —           &gt;DL DPCH To Add Per RL         0<maxno ofRLs&gt;         See Note 1 below         —           &gt;&gt;NERpetition Period         M         9.2.3.16         —           &gt;&gt;&gt;Repetition Length         M         9.2.3.15         —           &gt;&gt;&gt;DL Timeslot Information         M         9.2.3.16         —           &gt;&gt;&gt;Rep</maxno </maxno </maxno </maxno 	>>>Repetition Length	M		9.2.3.15		_	
Solution   Solution		M		9.2.3.19A		_	
Information 7.68Mcps		M		9.2.3.38		_	
DL CCTrCH To Delete							
SCCTrCH ID	UL CCTrCH To Delete		ofCCTrCH			GLOBAL	reject
DL CCTrCH To Add	>CCTrCH ID	М		9.2.3.3		_	
SCCTrCH ID	DL CCTrCH To Add		ofCCTrCH			GLOBAL	reject
STFCS	>CCTrCH ID	M		9.2.3.3		_	
N		М		9.2.1.58		_	
Note		М				_	
STPC CCTrCH List						_	
>>TPC CCTrCH ID         M         CCTrCH ID 9.2.3.3         —           >DL DPCH To Add Per RL         0 <maxno ofrls="">         See Note 1 below         —           &gt;&gt;DL DPCH Information         01         Applicable to 3.84Mcps TDD only         YES         reject           &gt;&gt;&gt;Repetition Period         M         9.2.3.16         —         —           &gt;&gt;&gt;Repetition Length         M         9.2.3.15         —         —           &gt;&gt;&gt;TDD DPCH Offset         M         9.2.3.19A         —         —           &gt;&gt;&gt;DL Timeslot Information         M         9.2.3.4E         —         YES         reject           DL DPCH Information LCR         01         Applicable to 1.28Mcps TDD only         YES         reject           &gt;&gt;&gt;Repetition Period         M         9.2.3.16         —         —           &gt;&gt;&gt;Repetition Length         M         9.2.3.15         —         —           &gt;&gt;&gt;TDD DPCH Offset         M         9.2.3.19A         —         —</maxno>			ofCCTrCH	0.200	CCTrCH which	-	
>>DL DPCH Information         OfRLs>         below           >>>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         M         9.2.3.4E         -           Information         O1         Applicable to 1.28Mcps TDD only         YES         reject           >>>Repetition Period         M         9.2.3.16         -         -           >>>Repetition Length         M         9.2.3.15         -         -           >>>TDD DPCH Offset         M         9.2.3.19A         -         -	>>TPC CCTrCH ID	М				_	
3.84Mcps TDD   only	>DL DPCH To Add Per RL		ofRLs>		below	_	
>>>Repetition Length         M         9.2.3.15         -           >>>TDD DPCH Offset         M         9.2.3.19A         -           >>>DL Timeslot Information         M         9.2.3.4E         -           >>DL DPCH Information LCR         O1         Applicable to 1.28Mcps TDD only         YES         reject           >>>Repetition Period         M         9.2.3.16         -         -           >>>Repetition Length         M         9.2.3.15         -         -           >>>TDD DPCH Offset         M         9.2.3.19A         -         -	>>DL DPCH Information		01		3.84Mcps TDD	YES	reject
>>>TDD DPCH Offset         M         9.2.3.19A         —           >>>DL Timeslot Information         M         9.2.3.4E         —           >>DL DPCH Information LCR         01         Applicable to 1.28Mcps TDD only         YES         reject           >>>Repetition Period         M         9.2.3.16         —         —           >>>Repetition Length         M         9.2.3.15         —           >>>TDD DPCH Offset         M         9.2.3.19A         —	>>>Repetition Period	М					
>>>TDD DPCH Offset         M         9.2.3.19A         —           >>>DL Timeslot Information         M         9.2.3.4E         —           >>DL DPCH Information LCR         01         Applicable to 1.28Mcps TDD only         YES         reject           >>>Repetition Period >>>Repetition Length         M         9.2.3.16         —           >>>TDD DPCH Offset         M         9.2.3.19A         —	>>>Repetition Length	M		9.2.3.15		_	
>>>DL Timeslot Information         M         9.2.3.4E         —           >>DL DPCH Information LCR         01         Applicable to 1.28Mcps TDD only         YES         reject           >>>Repetition Period         M         9.2.3.16         —         —           >>>Repetition Length         M         9.2.3.15         —         —           >>>TDD DPCH Offset         M         9.2.3.19A         —	•	M		9.2.3.19A		_	
>>DL DPCH Information LCR         01         Applicable to 1.28Mcps TDD only         YES         reject           >>>Repetition Period >>>Repetition Length	>>>DL Timeslot	M		9.2.3.4E		_	
>>>Repetition Period         M         9.2.3.16         —           >>>Repetition Length         M         9.2.3.15         —           >>>TDD DPCH Offset         M         9.2.3.19A         —	>>DL DPCH Information		01		1.28Mcps TDD	YES	reject
>>>Repetition Length         M         9.2.3.15         -           >>>TDD DPCH Offset         M         9.2.3.19A         -	>>>Repetition Period	М		9.2.3.16	_	_	
>>>TDD DPCH Offset M 9.2.3.19A -	•	М				_	
777.122.2. 6.1. 6.1.6.1						_	
	>>>DL Timeslot	M		9.2.3.40	1	_	

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Information LCR				
>>CCTrCH Initial DL Transmission Power	0	DL Power 9.2.1.21	YES	ignore
>>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	ignore
Transmission Power			9.2.1.21		TES	ignore
>>RL ID	0		9.2.1.53		YES	ignore
>>DL DPCH Information		01		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	M		9.2.3.39		_	
Information 7.68Mcps						
DL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</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&gt;</maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3	promac ii c	_	
>DL DPCH To Modify Per RL		0 <maxno ofRLs&gt;</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	М		9.2.3.4E		_	
Information						
>>DL DPCH To Modify		01			YES	reject
>>>Repetition Period	0		9.2.3.16		_	
>>>Repetition Length	0		9.2.3.15		_	
>>>TDD DPCH Offset	0		9.2.3.19A		_	
>>>DL Timeslot		0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<>		Applicable to	_	
Information		ofDLts>		3.84Mcps TDD only		
>>>>Time Slot	M		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&gt;</maxno 			_	
>>>>DPCH ID	M		9.2.3.5		_	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code						
>>>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		
>>>>Time Slot LCR	M		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 			-	
		CR>				

>>>>DPCH ID	M		9.2.3.5		_	
>>>>TDD	0		9.2.3.19a		_	
Channelisation Code LCR			. , ,			
>>>>TDD DL DPCH Time Slot Format LCR	0		9.2.3.19D		YES	reject
>>>Maximum DL Power to Modify LCR	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	YES	ignore
>>>>Minimum DL Power to Modify LCR	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	YES	ignore
>>>DL Timeslot Information 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	M		9.2.3.23		_	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.35		_	
>>>TFCI Presence	0		9.2.1.57		_	
>>>>DL Code Information 7.68Mcps		0 <maxno ofDPCHs7 68&gt;</maxno 			_	
>>>>DPCH ID 7.68Mcps	М		9.2.3.42		-	
>>>>TDD Channelisation Code 7.68Mcps	0		9.2.3.34		-	
>>DL DPCH To Delete		0 <maxno ofDPCHs&gt;</maxno 			GLOBAL	reject
>>>DPCH ID	М		9.2.3.5		_	
>>DL DPCH To Add 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		_	
>>>DL Timeslot Information LCR	M		9.2.3.40		_	
>>TDD TPC DL Step Size	0		9.2.3.21		YES	reject
>>Maximum CCTrCH DL Power to Modify	0		DL Power 9.2.1.21		YES	ignore
>>Minimum CCTrCH DL Power to Modify >>RL ID	0		DL Power 9.2.1.21 9.2.1.53		YES YES	ignore
>>RL ID >>DL DPCH To Add 7.68Mcps		01	3.2.1.00	Applicable to 7.68Mcps TDD	YES	reject
-	M		9.2.3.16	only	_	
>>>Repetition Period	M		9.2.3.16		_	
>>>Repetition Length >>>TDD DPCH Offset	M		9.2.3.19A		_	
>>>DL Timeslot Information 7.68Mcps	M		9.2.3.39		-	
DL CCTrCH To Delete		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>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		YES	reject
20113 10 Add			Information			.,
		_	9.2.3.4C			
DCHs To Delete		0 <maxno ofdchs=""></maxno>			GLOBAL	reject
>DCH ID	M		9.2.1.20		_	
DSCH To Modify		0 <maxno ofDSCHs&gt;</maxno 			GLOBAL	reject
>DSCH ID	М		9.2.3.5a		_	
>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DSCH is mapped	_	
>Transport Format Set	0		9.2.1.59		1	
>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	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	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&gt;</maxno 	0.2.0.071		GLOBAL	reject
>DSCH ID	М		9.2.3.5a		_	
USCH To Modify		0 <maxno ofUSCHs&gt;</maxno 			GLOBAL	reject
>USCH ID	М		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

STNL QoS USCH To Add  USCH To Delete  SUSCH ID RL Information  SRL ID  M M M M M M M M M M M M M M M M M M	0 <maxno ofuschs="">  0<maxno ofrls="">  01</maxno></maxno>	USCH Information 9.2.3.28 9.2.3.27 9.2.1.53 DL Power 9.2.1.21 DL Power 9.2.1.21 9.2.1.53G 9.2.3.26H 9.2.3.26G 9.2.3.4P	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES GLOBAL  - YES YES YES YES YES YES YES	reject reject reject ignore ignore ignore
>USCH ID  RL Information  >RL ID  M  M  M  MAXIMUM Downlink Power  >Minimum Downlink Power  >Initial DL Transmission Power  >RL Specific DCH Information  >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  Signalling Bearer Request Indicator   M  SIGNAL MAREN  O  SIGNAL MAREN	ofUSCHs>  0 <maxno ofrls=""></maxno>	9.2.3.27  9.2.1.53  DL Power 9.2.1.21  DL Power 9.2.1.21  9.2.1.21  9.2.1.53G  9.2.3.26H  9.2.3.26G  9.2.3.4P	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	- YES - YES YES	ignore ignore
RL Information  >RL ID  >Maximum Downlink Power  >Minimum Downlink Power  >Initial DL Transmission Power  >RL Specific DCH Information  >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  Signalling Bearer Request Indicator  A  M  Signalling Bearer Request Indicator	ofRLs>	9.2.1.53 DL Power 9.2.1.21 DL Power 9.2.1.21 DL Power 9.2.1.21 9.2.1.53G  9.2.3.26H  9.2.3.26G  9.2.3.4P	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES YES	ignore ignore ignore
>RL ID  >Maximum Downlink Power  >Minimum Downlink Power  >Minimum Downlink Power  O  >Initial DL Transmission Power  >RL Specific DCH Information  >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  >UARFCN   Signalling Bearer Request Indicator	ofRLs>	DL Power 9.2.1.21 DL Power 9.2.1.21 DL Power 9.2.1.21 9.2.1.53G	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES YES	ignore ignore ignore
>Maximum Downlink Power  >Minimum Downlink Power  O  >Initial DL Transmission Power  >RL Specific DCH Information  >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  Signalling Bearer Request Indicator  O  O  O  Signalling Bearer Request Indicator	01	DL Power 9.2.1.21 DL Power 9.2.1.21 DL Power 9.2.1.21 9.2.1.53G	1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES YES	ignore
>Minimum Downlink Power  >Initial DL Transmission Power  >RL Specific DCH Information  >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  >UARFCN   Signalling Bearer Request Indicator	01	9.2.1.21 DL Power 9.2.1.21 DL Power 9.2.1.21 9.2.1.53G 9.2.3.26H 9.2.3.26G	1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES YES	ignore
>Initial DL Transmission Power  >RL Specific DCH Information >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size >>Uplink Synchronisation Frequency >DL Time Slot ISCP Info LCR  >UARFCN  Signalling Bearer Request Indicator	01	9.2.1.21 DL Power 9.2.1.21 9.2.1.53G 9.2.3.26H 9.2.3.26G 9.2.3.4P	1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES YES	ignore
Power  >RL Specific DCH Information  >UL Synchronisation Parameters LCR   >>Uplink Synchronisation Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  >UARFCN   Signalling Bearer Request Indicator	01	9.2.1.21 9.2.1.53G 9.2.3.26H 9.2.3.26G 9.2.3.4P	1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES YES	ignore
>RL Specific DCH Information >UL Synchronisation Parameters LCR  >>Uplink Synchronisation Step Size >>Uplink Synchronisation Frequency >DL Time Slot ISCP Info LCR  >UARFCN  Signalling Bearer Request Indicator	01	9.2.3.26H 9.2.3.26G 9.2.3.4P	1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	YES -	ignore
>UL Synchronisation Parameters LCR  >>Uplink Synchronisation Step Size >>Uplink Synchronisation Frequency >DL Time Slot ISCP Info LCR  >UARFCN  Signalling Bearer Request Indicator	01	9.2.3.26G 9.2.3.4P	1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  Applicable to 1.28Mcps TDD only	-	
Step Size  >>Uplink Synchronisation Frequency  >DL Time Slot ISCP Info LCR  >UARFCN   Signalling Bearer Request Indicator		9.2.3.26G 9.2.3.4P	Applicable to 1.28Mcps TDD only	- YES	ignore
Frequency  >DL Time Slot ISCP Info LCR  >UARFCN  O  Signalling Bearer Request Indicator		9.2.3.4P	1.28Mcps TDD only	- YES	ignore
>DL Time Slot ISCP Info LCR  >UARFCN  O  Signalling Bearer Request Indicator			1.28Mcps TDD only	YES	ignore
Signalling Bearer Request O Indicator		9 2 1 65		1	
Indicator		0.2.1100	Applicable to 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15]	YES	reject
		9.2.1.55A		YES	reject
		HS-DSCH TDD Information 9.2.3.5F		YES	reject
HS-DSCH Information To Modify		9.2.1.31H		YES	reject
HS-DSCH MAC-d Flows To Add		HS-DSCH MAC-d Flows Information 9.2.1.31IA		YES	reject
HS-DSCH MAC-d Flows To Delete		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	01		3.84Mcps TDD only	YES	reject
>E-PUCH Information O >E-TFCS Information TDD O	1	9.2.3.45		_	

E BOLLMAG JEL 1			0.00.47	1		
>E-DCH MAC-d Flows to	0		9.2.3.47		_	
Add	_					
>E-DCH MAC-d Flows to	0		9.2.1.73		-	
Delete						
>E-DCH Non-scheduled	0		9.2.3.48		-	
Grant Information TDD						
>E-DCH TDD Information	0		9.2.3.49		_	
>E-DCH TDD Information to	0		9.2.3.52		_	
Modify						
E-DCH Serving RL	0		9.2.1.53		YES	reject
E-DCH Information		01		7.68Mcps TDD	YES	reject
7.68Mcps				only		-
>E-PUCH Information	0		9.2.3.45		_	
>E-TFCS Information TDD	0		9.2.3.46		_	
>E-DCH MAC-d Flows to	0		9.2.3.47		_	
Add						
>E-DCH MAC-d Flows to	0		9.2.1.73		_	
Delete						
>E-DCH Non-scheduled	0		9.2.3.64		_	
Grant Information 7.68Mcps						
TDD						
>E-DCH TDD Information	0		9.2.3.65		_	
7.68Mcps						
>E-DCH TDD Information to	0		9.2.3.52		_	
Modify			0.2.0.02			
E-DCH Information		01		1.28Mcps TDD	YES	reject
1.28Mcps				only	0	. 0,001
>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		_	
Add			0.2.0			
>E-DCH MAC-d Flows to	0		9.2.1.73		_	
Delete						
>E-DCH Non-scheduled	0		9.2.3.48a		_	
Grant Information LCR TDD	-					
>E-DCH TDD Information	0		9.2.3.49a		_	
LCR	-		5.2.000			
>E-DCH TDD Information to	0		9.2.3.52		_	
Modify						
	1	1	ı	1		

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	Semantics Description	Criticality	Assigned Criticality
			Reference	2 coonpaid		Citiounty
Message Discriminator	M		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
RL Information Response		0 <maxno ofRLs&gt;</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						o o
>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		YES	ignore
72 2011112 00112			9.2.2.39			· ·
>E-DCH FDD DL Control	0		9.2.2.13Dc		YES	ignore
Channel Information						
>E-DCH FDD Information	0		9.2.2.13Db		YES	ignore
Response						
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		Communica tion Control Port ID 9.2.1.15		YES	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
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

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE

# 9.1.44 RADIO LINK 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		-	
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&gt;</maxno 			EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>Cause	М		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	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 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	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 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	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 DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the UL.	_	
>UL DPDCH Indicator For E-DCH Operation	C- EDPCHInf o		9.2.2.61		YES	reject
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&gt;</maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.20		_	
Radio Link Information		0 <maxno ofRLs&gt;</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
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		YES	reject

			Information		
HO DOOLLISTS # T			9.2.2.18D	VE2	: .
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-DPCH Information		01		YES	reject
>Maximum Set of E- DPDCHs	0		9.2.2.20C	_	
>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 Threshold	0		9.2.2.13lg	_	
>E-RGCH 3-Index-Step	0		9.2.2.13lh	-	
Threshold	0		9.2.2.18ba	_	
>HARQ Info for E-DCH				_	
>HS-DSCH Configured Indicator	0		9.2.2.18Ca	_	
E-DCH FDD Information	0		E-DCH FDD Information 9.2.2.13Da	YES	reject
E-DCH FDD Information To Modify	0		9.2.2.13Df	YES	reject
E-DCH MAC-d Flows To Add	0		E-DCH FDD MAC-d Flows Information 9.2.2.13M	YES	reject
E-DCH MAC-d Flows To Delete	0		9.2.1.73	YES	reject
Serving E-DCH RL	0		9.2.2.48B	YES	reject
CPC Information		01		 YES	reject
>Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.66	_	
>Continuous Packet Connectivity DTX-DRX Information To Modify	0		9.2.2.67	-	
>Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.68	-	
>Continuous Packet Connectivity HS-SCCH less Deactivate Indicator	0		9.2.2.69A	YES	reject

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofRLs	Maximum number of RLs for a 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.
EDPCHInfo	This IE shall be present if <i>E-DPCH Information</i> IE is present.

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# 9.1.47.2 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		_	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	M		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&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
DL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	M		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&gt;</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 &gt;</maxno 			-	
>>>Time Slot LCR	M		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&gt;</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&gt;</maxno 			GLOBAL	reject

>DCH ID	М		9.2.1.20		_	
RL Information		0 <maxno ofRLs&gt;</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	ianoro
>UL Synchronisation Parameters LCR		01		1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	163	ignore
>>Uplink Synchronisation Step Size	M		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	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 7.68Mcps TDD	0		9.2.3.64		-	

>E-DCH TDD Information 7.68Mcps	0		9.2.3.65		_	
>E-DCH TDD Information to Modify	0		9.2.3.52		ı	
E-DCH Information		01		1.28Mcps TDD	YES	reject
1.28Mcps				only		
>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		-	
Add						
>E-DCH MAC-d Flows to	0		9.2.1.73		1	
Delete						
>E-DCH Non-scheduled	0		9.2.3.48a		1	
Grant Information LCR TDD						
>E-DCH TDD Information	0		9.2.3.49a		1	
LCR						
>E-DCH TDD Information to	0		9.2.3.52		-	
Modify						

Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoof RLs 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	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	ignore
RL Information Response		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.12D	FDD only	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
>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		Communica tion Control Port ID 9.2.1.15		YES	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

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a 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	М		9.2.1.18		YES	reject
RL Information		1 <maxno ofRLs&gt;</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	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
Power Adjustment Type	М		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&gt;</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 <i>Adjustment Type</i> 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	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 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	M				YES	reject
>>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	reject
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>PUSCH Information		0 <maxno ofPUSCHs &gt;</maxno 		TDD only	GLOBAL	reject
>>>PUSCH ID	М		9.2.3.12		_	
>>>HS-SICH Information		0 <maxno ofHSSICH s&gt;</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.	-	
>>>DPCH ID 7.68Mcps	0		9.2.3.42	Included for 7.68Mcps TDD for downlink	YES	reject
>RLS				DPCH FDD only		

		ofRLSets>				
>>>RL Set ID	M		9.2.2.39		_	
>ALL RL			NULL			
>ALL RLS			NULL	FDD only		
Dedicated Measurement Type	М		9.2.1.23		YES	reject
Measurement Filter Coefficient	0		9.2.1.41		YES	reject
Report Characteristics	М		9.2.1.51		YES	reject
CFN Reporting Indicator	M		FN Reporting Indicator 9.2.1.29B		YES	reject
CFN	0		9.2.1.7		YES	reject
Number Of Reported Cell Portions	C- BestCellP ortionsMe as		9.2.2.23D	FDD only	YES	reject
Measurement Recovery Behavior	0		9.2.1.43A		YES	ignore
Alternative Format Reporting Indicator	0		9.2.1.1B		YES	ignore

Note 1: This information element is a simplified representation of the ASN.1.

Condition	Explanation
BestCellPortionsMeas	The IE shall be present if the Dedicated Measurement Type IE is set to
	"Best Cell Portions".

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	M		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&gt;</maxno 			EACH	ignore
>>>RL ID	M		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 &gt;</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&gt;</maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	ignore
>>>>DPCH ID	M	OITAL-17	9.2.3.5	Jiny	_	
>>>Dedicated	M		9.2.1.24		_	
Measurement Value			J.2.1.27			
>>>Multiple Dedicated Measurement Value Information LCR		0 <maxno ofDPCHsL CRPerRL- 1&gt;</maxno 		Applicable to 1.28McpsTDD only	GLOBAL	ignore
>>>DPCH ID	М		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	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	_	
>>>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	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&gt;</maxno 		Applicable to 7.68McpsTDD only	GLOBAL	ignore
>>>>DPCH ID 7.68Mcps	М		9.2.3.42		ı	
>>>>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&gt;</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		9.2.1.43C		YES	ignore

0 (1 )			
Support Indicator			

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

- 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.

#### 9.1.54 DEDICATED 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		_	
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 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	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
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&gt;</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 &gt;</maxno 		TDD only See note 3	GLOBAL	reject
>>>PUSCH ID	M		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
>>>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

				See Note 2		
>>RL Set Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
		ofRLSets>				
>>>RL Set ID	M		9.2.2.39		ı	
>>>Dedicated	М		9.2.1.24A		_	
Measurement Value						
Information						
Measurement Recovery	0		9.2.1.43B		YES	ignore
Reporting Indicator						-

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

- 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.

#### 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	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 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	M		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 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	М		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&gt;</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&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Cause	М		9.2.1.6		_	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.53	_	_	
>>CCTrCH List		1 <maxno ofCCTrCH s&gt;</maxno 			EACH	ignore
>>>CCTrCH ID	M		9.2.3.3		_	
>>>Cause	М		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&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>RL Set				FDD only		
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>CCTrCH				TDD only		
>>RL ID	M		9.2.1.53		_	_
>>CCTrCH List		1 <maxno ofCCTrCH s&gt;</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	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 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	М		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
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-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. 0= Primary scrambling code of the cell 115 = Secondary scrambling code	YES	reject
E-AGCH Code FDD Information	0		9.2.2.13lb 9.2.2.13la		YES	reject
E-RGCH/E-HICH Code FDD Information	O		9.2.2.13la			reject
HSDPA And E-DCH Cell Portion Information		0 <maxno ofCellPorti ons&gt;</maxno 			GLOBAL	reject
>Cell Portion ID	М		9.2.2.1Ca		_	
>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 over cell portion.	-	
>HS-PDSCH FDD Code Information	0		9.2.2.18F		ı	
>HS-SCCH FDD Code Information	0		9.2.2.18G		ı	
>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 and E- AGCH, E- RGCH and E- HICH codes over cell portion	I	
>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 over cell portion.	I	
>E-AGCH Code FDD Information	0		9.2.2.13lb		-	
>E-RGCH/E-HICH Code FDD Information	0		9.2.2.13la		-	
Maximum Target Received Total Wide Band Power	0		9.2.2.21a		YES	reject
Reference Received Total Wide Band Power	0		9.2.2.39B		YES	ignore
Target Non-serving E-DCH to Total E-DCH Power ratio	0		9.2.2.21b		YES	reject
HS-DSCH Common System Information	0		9.2.2.75		YES	reject

Common MAC Flows to	0	9.2.2.97	YES	reject
Delete				
HS-DSCH Paging System	0	9.2.2.76	YES	reject
Information				
Paging MAC Flows to Delete	0	9.2.2.98	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	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		_	
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&gt;</maxno 			GLOBAL	reject
>PDSCH Set ID	М		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	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>DL Timeslot Information		1 <maxno ofDLts&gt;</maxno 			_	
>>>Time Slot	M		9.2.3.23		_	
>>>Midamble Shift And Burst Type	M		9.2.3.7		_	
>>>TFCI Presence	М		9.2.1.57		_	
>>>DL Code Information		1 <maxno ofPDSCHs &gt;</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	M		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		_	
>>TDD Physical Channel Offset	М		9.2.3.20		_	
>>DL Timeslot Information LCR		1 <maxno ofDLtsLCR &gt;</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 &gt;</maxno 			-	
>>>>PDSCH ID	М		9.2.3.10		_	
>>>>TDD	М		9.2.3.19a		_	
Channelisation Code LCR						
>>>>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	М		9.2.3.15		_	
>>TDD Physical	М		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	М		9.2.3.23		_	
>>>Midamble Shift	М		9.2.3.35		_	
And Burst Type 7.68Mcps						
>>>TFCI Presence	М		9.2.1.57		_	
>>>DL Code	141	1 <maxno< td=""><td>0.2.1.07</td><td></td><td>_</td><td></td></maxno<>	0.2.1.07		_	
Information 7.68Mcps		ofPDSCHs >				
>>>PDSCH ID 7.68Mcps	М		9.2.3.43		-	
>>>>TDD Channelisation Code 7.68Mcps	М		9.2.3.34		-	
PDSCH Sets To Modify		0 <maxno of PDSCHSe ts&gt;</maxno 			GLOBAL	reject
>PDSCH Set ID	М		9.2.3.11		_	
>CHOICE HCR or LCR or 7.68 Mcps	М			See note 1 below	-	
>>3.84Mcps TDD					_	
>>>PDSCH To Modify		1			YES	reject
Information						-
>>>Repetition	0		9.2.3.16		_	
Period	0		9.2.3.15			
>>>Repetition 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>				
>>>>Time Slot	М		9.2.3.23		_	

Second Color   Second Color   Second Color   Second Color   Second Color		1				
Type	>>>>Midamble	0		9.2.3.7	_	
Type	Shift And Burst					
Separate   Separate						
Presence		0		92157	_	
Name				0.2.1.07		
Information						
No.   No.					_	
Section   Sect	Information					
D			>			
S>>>>TDD   M	>>>>PDSCH	M		9.2.3.10	_	
Channelisation	ID					
Channelisation	SSSSSTDD	М		9.2.3.19	_	
Code						
SPAIRMERS TOD   SPAIRMERS TO						
New Year   September   Septe						
Information LCR						
S>>>Repetition	-		1		YES	reject
Period   P	Information LCR					
Period	>>>Repetition	0		9.2.3.16	1	
S>>>Repetition   Length	=					
Length		0		92315	_	
SOUTH   Sout	-			0.2.0.10		
Channel Offset   System   Channel Offset   System   Channel Offset   Cha				0.000		
Name	>>>>TDD Physical	O		9.2.3.20	_	
Name	Channel Offset		<u>                                     </u>			
Information LCR	>>>>DL Timeslot		0 <maxno< td=""><td></td><td>-</td><td></td></maxno<>		-	
Second			ofDLtsLCR			
LCR	Illiormation Eok		>			
LCR	>>>>Time Slot	M		9.2.3.24A	_	
Shift LCR						
Shift LCR   S>>>TFCI   Presence   Shift LCR   S>>>>TFCI   Presence   S>>>DL Code   Information LCR   S>>>>DL Code   Information LCR   S>>>>>DL Code   Information LCR   S>>>>>TDD   M   Second Secon		0		0237Δ		
New York   New York				3.2.3.7A	_	
Presence						
New York   New York	>>>>TFCI	0		9.2.1.57	_	
Information LCR	Presence					
Information LCR	>>>>DL Code		0 <maxno< td=""><td></td><td>_</td><td></td></maxno<>		_	
No.   No.			ofPDSCHs			
ID	information 2010		>			
ID	>>>>PDSCH	M		9.2.3.10	_	
No.   No.						
Channelisation Code LCR         9.2.3.19D         YES         reject           >>>>>>TDD DL DPCH Time Slot Format LCR         9.2.3.19D         YES         reject           >>>7.68Mcps TDD         -         -         -         -           >>>PDSCH To Modify Information 7.68Mcps         1         YES         reject           >>>>Repetition Period         0         9.2.3.16         -         -           >>>>Repetition Length         0         9.2.3.15         -         -           >>>>TDD Physical Channel Offset         0         9.2.3.20         -         -           >>>>DL Timeslot Information 7.68Mcps         0 <maxno ofdlts="">         -         -         -           &gt;&gt;&gt;&gt;&gt;Time Slot Shift And Burst         M         9.2.3.23         -         -</maxno>		M		0.2.3.102		
Code LCR		IVI		9.2.3.19a	_	
No.   No.						
DPCH Time Slot   Format LCR	Code LCR					
DPCH Time Slot   Format LCR	>>>>TDD DL	0		9.2.3.19D	YES	reject
Format LCR						
>>7.68Mcps TDD         —           >>>PDSCH To Modify Information 7.68Mcps         1         YES         reject           >>>>Repetition Period         O         9.2.3.16         —         —           >>>>Repetition Length         O         9.2.3.15         —         —           >>>>TDD Physical Channel Offset         O         9.2.3.20         —         —           >>>>DL Timeslot Information 7.68Mcps         Omaxno ofDLts         —         —         —           >>>>>Time Slot         M         9.2.3.23         —         —           >>>>>Midamble Shift And Burst         O         9.2.3.35         —         —						
Note						
Information 7.68Mcps			1		_ VEC	roic of
>>>>Repetition         O         9.2.3.16         —           Period         O         9.2.3.15         —           >>>>Repetition         O         9.2.3.15         —           Length         O         9.2.3.20         —           Channel Offset         O         9.2.3.20         —           S>>DL Timeslot         O         O         O           Information         O         O         O           7.68Mcps         O         9.2.3.23         —           >>>>>Midamble         O         9.2.3.35         —           Shift And Burst         O         9.2.3.35         —	_		1		YES	reject
Period         9.2.3.15         -           >>>>Repetition         0         9.2.3.15         -           Length         0         9.2.3.20         -           Channel Offset         0 <maxno ofdlts="">         -           Information         0<maxno ofdlts="">         -           7.68Mcps         9.2.3.23         -           &gt;&gt;&gt;&gt;&gt;Time Slot         M         9.2.3.23         -           &gt;&gt;&gt;&gt;&gt;Midamble         O         9.2.3.35         -           Shift And Burst         0         9.2.3.35         -</maxno></maxno>	Information 7.68Mcps					
Period         9.2.3.15           >>>>Repetition         0           Length         9.2.3.15           >>>>TDD Physical         0           Channel Offset         9.2.3.20           >>>DL Timeslot         0 <maxno ofdlts="">           Information         ofDLts&gt;           7.68Mcps         9.2.3.23           &gt;&gt;&gt;&gt;&gt;Time Slot         M           9.2.3.35         -           Shift And Burst         9.2.3.35</maxno>	>>>Repetition	0		9.2.3.16		
>>>>Repetition         O         9.2.3.15         —           Length         O         9.2.3.20         —           >>>>TDD Physical Channel Offset         O         9.2.3.20         —           >>>>DL Timeslot Information 7.68Mcps         O         O <maxno ofdlts="">         —           &gt;&gt;&gt;&gt;&gt;Time Slot         M         9.2.3.23         —           &gt;&gt;&gt;&gt;&gt;Midamble Shift And Burst         O         9.2.3.35         —</maxno>	=					
Length         9.2.3.20         —           >>>>DL Timeslot Information 7.68Mcps         0 <maxno ofdlts="">         —           &gt;&gt;&gt;&gt;Time Slot         M         9.2.3.23         —           &gt;&gt;&gt;&gt;&gt;Midamble Shift And Burst         O         9.2.3.35         —</maxno>		0		9.2.3.15	_	
>>>>TDD Physical Channel Offset         0         9.2.3.20         -           >>>>DL Timeslot Information 7.68Mcps         0 <maxno ofdlts="">         -           &gt;&gt;&gt;&gt;Time Slot         M         9.2.3.23         -           &gt;&gt;&gt;&gt;&gt;Midamble Shift And Burst         0         9.2.3.35         -</maxno>	The state of the s	-		3.2.3.10		
Channel Offset         0 <maxno ofdlts="">         -           Information 7.68Mcps         M         9.2.3.23         -           &gt;&gt;&gt;&gt; Midamble Shift And Burst         O         9.2.3.35         -</maxno>				0.0.0.00		
>>>>DL Timeslot         0 <maxno ofdlts="">         -           Information         7.68Mcps         M         9.2.3.23         -           &gt;&gt;&gt;&gt;&gt;Time Slot         M         9.2.3.23         -           &gt;&gt;&gt;&gt;Midamble         O         9.2.3.35         -           Shift And Burst         O         9.2.3.35         -</maxno>		U		9.2.3.20	_	
Information         ofDLts>           7.68Mcps         9.2.3.23           >>>>Time Slot         M           >>>>Midamble         O           Shift And Burst         9.2.3.35						
Information         ofDLts>           7.68Mcps         9.2.3.23           >>>>Time Slot         M           >>>>>Midamble         O           Shift And Burst         9.2.3.35	>>>>DL Timeslot				_	
7.68Mcps         9.2.3.23         —           >>>>Time Slot         M         9.2.3.23         —           >>>>Midamble         O         9.2.3.35         —           Shift And Burst         O         9.2.3.35         —			ofDLts>			
>>>>Time Slot						
>>>>Midamble O 9.2.3.35 -	-	M		0 2 3 23		
Shift And Burst						
		٥		9.2.3.35	_	
Type 7.68Mcps	Shift And Burst					
	Type 7 68Mcns					

	,	T	1	<u>,                                      </u>		
>>>>TFCI	0		9.2.1.57		_	
Presence		<u> </u>				
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofPDSCHs				
7.68Mcps		>				
>>>>PDSCH	М		9.2.3.43		_	
			0.2.0.10			
ID 7.68Mcps	M		9.2.3.34			
>>>>TDD	IVI		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				
DD00110 / ID	M	ts>	9.2.3.11			
>PDSCH Set ID	IVI		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				
. DUICOU 0-4 ID	M	ts>	9.2.3.13		_	
>PUSCH Set ID	IVI	0.1	3.2.3.13	Mandatanifan	_ VE0	w=!+
>PUSCH To Add		01		Mandatory for 3.84Mcps TDD.	YES	reject
Information				Not Applicable		
				to 1.28Mcps		
				TDD or		
				7.68Mcps TDD.		
>>Repetition Period	M		9.2.3.16	7.00M0p3 1DD.	_	
	M	1	9.2.3.15		_	
>>Repetition Length		1			_	
>>TDD Physical	М		9.2.3.20		_	
Channel Offset						
>>UL Timeslot		1 <maxno< td=""><td></td><td></td><td>_  </td><td></td></maxno<>			_	
Information		ofULts>			<u> </u>	
>>>Time Slot	М		9.2.3.23		_	<u> </u>
>>>Midamble Shift	М		9.2.3.7		_	
And Burst Type						
>>>TFCI Presence	M		9.2.1.57		_	
>>> TFCT Presence		1 <maxno< td=""><td>3.2.1.07</td><td></td><td>_</td><td></td></maxno<>	3.2.1.07		_	
		ofPUSCHs			_	
Information		>				
>>>PUSCH ID	M	-	9.2.3.12		_	
	M	+	9.2.3.19		_	
>>>>TDD	IVI		3.2.3.13		_	
Channelisation Code				1 1 1 1	\/50	
>PUSCH To Add		01		Mandatory for	YES	reject
Information LCR				1.28Mcps TDD.		
				Not Applicable to 3.84Mcps		
				TDD or		
				7.68Mcps TDD.		
>> Donatition Deviced	M		9.2.3.16	י ייסטויוטף דיסט.	_	
>>Repetition Period	M		9.2.3.16		_ <del>-</del>	
>>Repetition Length		1			_	
>>TDD Physical	М		9.2.3.20		_	
Channel Offset						
>>UL Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofULtsLCR				
	1	>				
>>>Time Slot LCR	M		9.2.3.24A		_	
>>>Midamble Shift	M		9.2.3.7A			
LCR						
>>>TFCI Presence	М		9.2.1.57		_	
>>>UL Code		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofPUSCHs				
	1	1	Ī	1		

>>>PUSCH ID	M	1	9.2.3.12	T		
>>>>TDD	M		9.2.3.12 9.2.3.19a		_	
Channelisation Code LCR	141		0.2.0.13a			
>>>>TDD UL DPCH Time Slot Format LCR	0		9.2.3.21C		YES	reject
>PUSCH To Add Information 7.68Mcps		01		Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps 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						
>>UL Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information 7.68Mcps		ofULts>				
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift And Burst Type 7.68Mcps	M		9.2.3.35		-	
>>>TFCI Presence	М		9.2.1.57		_	
>>>UL Code Information 7.68Mcps		1 <maxno ofPUSCHs &gt;</maxno 			-	
>>>>PUSCH ID	М		9.2.3.12		_	
>>>>TDD Channelisation Code 7.68Mcps	М		9.2.3.34		-	
PUSCH Sets To Modify		0 <maxno of PUSCHSe ts&gt;</maxno 			GLOBAL	reject
>PUSCH Set ID	М	102	9.2.3.13		_	
>CHOICE HCR or LCR or 7.68Mcps	М			See note 1 below	-	
>>3.84Mcps TDD					-	
>>>PUSCH To Modify Information		1			YES	reject
>>>Repetition Period	0		9.2.3.16		-	
>>>Repetition Length	0		9.2.3.15		_	
>>>>TDD Physical Channel Offset	0		9.2.3.20		_	
>>>>UL Timeslot Information		0 <maxno ofULts&gt;</maxno 			-	
>>>>Time Slot	М		9.2.3.23			
>>>>Midamble Shift And Burst Type	0		9.2.3.7		_	
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>UL Code Information		0 <maxno ofPUSCHs &gt;</maxno 			_	
>>>>PUSCH ID	М		9.2.3.12		_	

		1		T T	
>>>>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			0.2.0		
>>>>TDD Physical	0		9.2.3.20	_	
			3.2.3.20		
Channel Offset		0 <maxno< td=""><td></td><td></td><td></td></maxno<>			
>>>>UL Timeslot		ofULtsLCR			
Information LCR		> >			
>>>>Time Slot	М		9.2.3.24A	_	
LCR			0.2.0.2		
>>>>Midamble	0		9.2.3.7A		
			3.2.3.7A		
Shift LCR	0		9.2.1.57	_	
>>>>TFCI			9.2.1.37		
Presence	<del>                                     </del>	0			
>>>>UL Code		0 <maxno ofPUSCHs</maxno 		_	
Information LCR		)			
>>>>PUSCH	М	-	9.2.3.12		
	IVI		9.2.3.12		
ID	M		9.2.3.19a		
>>>>TDD	IVI		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	_	
Period					
>>>Repetition	0		9.2.3.15	_	
Length					
>>>>TDD Physical	0		9.2.3.20	_	
Channel Offset					
>>>UL Timeslot		0 <maxno< td=""><td></td><td>_</td><td></td></maxno<>		_	
Information		ofULts>			
7.68Mcps					
-	M		9.2.3.23	_	
>>>>Time Slot	0		9.2.3.35		
>>>>Midamble			შ.∠.პ.პშ	_	
Shift And Burst					
Type 7.68Mcps			0.04.57		
>>>>TFCI	0		9.2.1.57	_	
Presence					
>>>>UL Code		0 <maxno< 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					
2000 1.00M0p0	<u> </u>	1		1	

PUSCH Sets To Delete		0 <maxno ofPUSCH Sets&gt;</maxno 			GLOBAL	reject
>PUSCH Set ID	М		9.2.3.13		_	
HS-PDSCH TDD Information		01			GLOBAL	reject
>DL Timeslot and Code Information		0 <maxno ofDLts&gt;</maxno 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	-	
>>Time Slot	М		9.2.3.23		_	
>>Midamble Shift And Burst Type	M		9.2.3.7		_	
>>Codes		1 <maxno ofHSPDS CHs&gt;</maxno 			_	
>>>TDD Channelisation Code	М		9.2.3.19		_	
>>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	YES	reject
>DL Timeslot and Code Information LCR per UARFCN		0 <maxfreq uencyinCe II&gt;</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 &gt;</maxno 			-	
>>>Time Slot LCR	М		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		-	
>>>Codes LCR		1 <maxno ofHSPDS CHs&gt;</maxno 			-	
>>>TDD Channelisation Code	M		9.2.3.19		_	
>>>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	YES	reject
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.	_	

>DL Timeslot and Code Information 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps	GLOBAL	reject
				TDD or 3.84 Mcps TDD.		
>>Time Slot	М		9.2.3.23		_	
>>Midamble Shift And	М		9.2.3.35		_	
Burst Type 7.68Mcps						
>>Codes 7.68Mcps		1 <maxno ofHSPDS CHs768&gt;</maxno 			-	
>>>TDD Channelisation Code 7.68Mcps	M		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	I	-
Add to HS-SCCH		01			GLOBAL	reject
Resource Pool >HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<>		Applicable to	_	
>HS-SCCH Information		ofHSSCC Hs>		3.84Mcps TDD only	_	
>>HS-SCCH ID	M		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		ı	
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		-	
>>HS-SICH Information		1			_	
>>>HS-SICH ID	M		9.2.3.5Gb		_	
>>>Time Slot	M		9.2.3.23		_	
>>>Midamble Shift And Burst Type	М		9.2.3.7		_	
>>>TDD Channelisation Code	М		9.2.3.19		ı	
>HS-SCCH Information LCR		0 <maxno ofHSSCC Hs&gt;</maxno 		Applicable to 1.28Mcps TDD only See note 3 below	1	
>>HS-SCCH ID	М		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.	-	
>>Time Slot LCR	M		9.2.3.24A		_	
>>Midamble Shift LCR	M		9.2.3.7A		-	
>>First TDD Channelisation Code	M		TDD Channelisat ion Code 9.2.3.19		_	

	1	T	T	T	1	
>>Second TDD	М		TDD		_	
Channelisation Code			Channelisat			
			ion Code			
11	N/		9.2.3.19			
>>Maximum HS-SCCH	M		DL Power 9.2.1.21		_	
Power			9.2.1.21			
>>HS-SICH Information		1			_	
LCR						
>>>HS-SICH ID	М		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	М		9.2.3.24A	<b>J</b>	_	
>>>Midamble Shift	М		9.2.3.7A		_	
LCR			0.2.0			
	M	1	9.2.3.19		_	
>>>TDD	141		3.2.3.13		-	
Channelisation Code		1	0.0.0.514	The Forters 1 1	\/F0	1
>>>Extended HS-SICH	0		9.2.3.5K	The Extended HS-SICH ID IE	YES	ignore
ID				shall be used if		
				the HS-SICH		
				identity has a		
				value larger		
				than 31.		
>>Extended HS-SCCH	0		9.2.3.5J	The Extended	YES	ignore
ID				HS-SCCH ID IE		Ü
				shall be used if		
				the HS-SCCH		
				identity has a		
				value larger		
	0		0.04.05	than 31.	YES-	
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15]	169-	ignore
				Mandatory for		
				1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
>HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
7.68Mcps		ofHSSCC		7.68Mcps TDD		
		Hs>		only		
>>HS-SCCH ID	М		9.2.3.5Ga		_	
>>Time Slot	М		9.2.3.23			
>>Midamble Shift And	М		9.2.3.35			·
Burst Type 7.68Mcps						
>>TDD Channelisation	М		9.2.3.34		_	
Code 7.68Mcps						
>>Maximum HS-SCCH	М	1	DL Power		_	
Power			9.2.1.21			
		1			_	
>>HS-SICH Information		'			-	
7.68Mcps	l N4		0.0.0.505			
>>>HS-SICH ID	M		9.2.3.5Gb		_	
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift	М		9.2.3.35		_	
And Burst Type						
7.68Mcps						
<u> </u>		1	1			

	l M	1	0.2.2.24	1		
>>>TDD	IVI		9.2.3.34		_	
Channelisation Code 7.68Mcps						
Modify HS-SCCH		01			GLOBAL	reject
Resource Pool		J 1			OLOD/(L	. 0,000
>HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<>		Applicable to	_	
		ofHSSCC		3.84Mcps TDD		
		Hs>		only		
>>HS-SCCH ID	M		9.2.3.5Ga		-	
>>Time Slot	0		9.2.3.23		_	
>>Midamble Shift And	0		9.2.3.7		_	
Burst Type	0		9.2.3.19			
>>TDD Channelisation Code			9.2.3.19		_	
>>Maximum HS-SCCH	0		DL Power		_	
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	0		9.2.3.7		_	
And Burst Type						
>>>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		1.28Mcps TDD		
		Hs>		only See note 3		
				below		
>>HS-SCCH ID	М		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.		
>>Time Slot LCR	0		9.2.3.24A	ignorea.	_	
>>Midamble Shift LCR	0		9.2.3.7A		_	
>>First TDD	0		TDD		_	
Channelisation Code			Channelisat			
			ion Code			
L Coord TDD	0		9.2.3.19 TDD		_	
>>Second TDD Channelisation Code			Channelisat			
Chamicisation Code			ion Code			
			9.2.3.19			
>>Maximum HS-SCCH Power	0		DL Power 9.2.1.21		_	
>>HS-SICH Information		01			_	
LCR						
>>>HS-SICH ID	М		9.2.3.5Gb	If the Extended	_	
				HS-SICH ID IE		
				is included in the <i>HS-SICH</i>		
				Information		
				LCR IE, the		
				HS-SICH ID IE		
				shall be ignored.		
>>>Time Slot LCR	0		9.2.3.24A	ignorea.	_	
>>Midamble Shift LCR	0		9.2.3.7A		_	
WINGGITIDIO OTIII LOIN	I	1		l	<u> </u>	

		T	0.0.0.40			
>>>TDD	0		9.2.3.19		_	
Channelisation Code >>>Extended HS-SICH	0		9.2.3.5K	The Extended	YES	ignore
ID				HS-SICH ID IE		J
				shall be used if		
				the HS-SICH		
				identity has a value larger		
				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.		
>>UARFCN	0		9.2.1.65	Corresponds to	YES	ignore
				Nt [15]		
				Applicable to 1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
>HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
7.68Mcps		ofHSSCC Hs>		7.68Mcps TDD only		
>>HS-SCCH ID	M	1152	9.2.3.5Ga	Offig	_	
>>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	М		9.2.3.5Gb		_	
>>>Time Slot	0		9.2.3.23		_	
>>>Midamble Shift	М		9.2.3.35		_	
And Burst Type						
7.68Mcps						
>>>TDD	M		9.2.3.34		_	
Channelisation Code						
7.68Mcps				E 4 0014	01.0041	
Delete from HS-SCCH		0 <maxno of<="" td=""><td></td><td>For 1.28Mcps TDD ,see note</td><td>GLOBAL</td><td>reject</td></maxno>		For 1.28Mcps TDD ,see note	GLOBAL	reject
Resource Pool		HSSCCHs		3 below		
		>		0 00.011		
>HS-SCCH ID	М		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 <i>HS-</i> SCCH ID IE		
				shall be ignored		
				Januar De Ignoreu		

Configuration Generation ID  E-PUCH Information  >LTGI Presence  >SNPL Reporting Type  Midamble Shift And Burst Type  >E-PUCH Timeslot Information  >>Time Slot  M  Add to E-AGCH Resource Pool  >E-AGCH ID TDD  >>Time Slot  M  Add burst Type  >>TDD Channelisation Code  >Merst Type  >>TDD Channelisation Code  >>Merst Type  >>TOD Channelisation  Code  >E-AGCH ID TDD  M  >>Time Slot  O  >>Time Slot  O  >E-AGCH Information   ABurst Type  >>TDD Channelisation Code  >>Maximum E-AGCH Power  O  Serage AGCH Code  >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  E-HICH Information  AMidamble Shift And Burst Type  >TDD Channelisation Code  >Maximum E-HICH Power  M  M  Type  >TDD Channelisation Code  >Maximum E-HICH Power  M		9.2.3.5J	Applicable to 1.28Mcps TDD	YES	ignore
E-PUCH Information  >LTGI Presence			only, the Extended HS- SCCH ID IE shall be used if		
E-PUCH Information  >LTGI Presence M >SNPL Reporting Type M >Midamble Shift And Burst Type >E-PUCH Timeslot Information  >>Time Slot M  Add to E-AGCH Resource Pool >E-AGCH ID TDD M >>Time Slot M  >>Midamble Shift And M  Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Power  S-AGCH ID TDD M  >>Time Slot O  >>Maximum E-AGCH O  >E-AGCH Information    Delete from E-AGCH Power			the HS-SCCH identity has a value larger		
E-PUCH Information  >LTGI Presence		9.2.1.16	than 31.	YES	reject
>LTGI Presence >SNPL Reporting Type >Midamble Shift And Burst Type >E-PUCH Timeslot Information  >>Time Slot  Add to E-AGCH Resource Pool >E-AGCH ID TDD  >>Time Slot  M  >>Midamble Shift And Burst Type  >>TDD Channelisation Code  >>Maximum E-AGCH Power  >>Time Slot  O  >E-AGCH ID TDD  M  >>Time Slot  M  Add to E-AGCH Resource Pool  >>TDD Channelisation Code  >>Maximum E-AGCH Power  Modify E-AGCH Resource Pool  >E-AGCH ID TDD  >>Time Slot  O  >>Midamble Shift And Burst Type  >>TDD Channelisation Code  >>Maximum E-AGCH Power  Addition  O  Code  >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  E-HICH Information  Addition  M  M  E-HICH Information  M  Code  >Maximum E-HICH Power  M	01	9.2.1.10	2.94Mone TDD		
>SNPL Reporting Type >Midamble Shift And Burst Type >E-PUCH Timeslot Information  >>Time Slot M  Add to E-AGCH Resource Pool >E-AGCH ID TDD M >>Time Slot M  >>Midamble Shift And M  Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Modify E-AGCH ID TDD M >>Time Slot O >>Maximum E-AGCH O >>E-AGCH ID TDD M  >>Tode >>Naximum E-AGCH O >>Tode >>Maximum E-AGCH O >>Tode >>AGCH ID TDD M >>Time Slot O >>Tode >>E-AGCH ID TDD M >>Time Slot O >>Naximum E-AGCH O Some Shift And O Surst Type >>TDD Channelisation O Code >>Maximum E-AGCH O Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  E-HICH Information  >Midamble Shift And Burst Type >TDD Channelisation M E-HICH Information M  SMidamble Shift And Burst Type >TDD Channelisation M Code >Maximum E-HICH Power M	01		3.84Mcps TDD only	GLOBAL	reject
>Midamble Shift And Burst Type >E-PUCH Timeslot Information  >>Time Slot  Add to E-AGCH Resource Pool >E-AGCH ID TDD  >>Time Slot  >>Midamble Shift And Burst Type  >>TDD Channelisation Code >>Maximum E-AGCH Power  Modify E-AGCH ID TDD  >E-AGCH ID TDD  M  >>Time Slot  >>Maximum E-AGCH Power  Modify E-AGCH Resource Pool  >E-AGCH ID TDD  >>Time Slot  >>TDD Channelisation  O  >>Burst Type  >>TDD Channelisation  O  >>E-AGCH ID TDD  M  >>Time Slot  >>Midamble Shift And Burst Type  >>TDD Channelisation Code  >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  E-HICH Information   M  E-HICH Information  M  Code  >Maximum E-HICH Power  M		9.2.3.58		_	
SE-PUCH Timeslot Information		9.2.3.62		_	
>E-PUCH Timeslot Information  >>Time Slot		9.2.3.7		_	
Information	1 <maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
Add to E-AGCH Resource Pool  >E-AGCH Information  >>E-AGCH ID TDD	ofEPUCHs lots>			_	
Add to E-AGCH Resource Pool  >E-AGCH Information  >>E-AGCH ID TDD		9.2.3.23			
>E-AGCH Information  >>E-AGCH ID TDD	01		3.84Mcps TDD only	GLOBAL	reject
>>E-AGCH ID TDD M >>Time Slot M  >>Midamble Shift And M Burst Type >>TDD Channelisation M Code >>Maximum E-AGCH M Power  Modify E-AGCH Resource Pool >E-AGCH ID TDD M >>Time Slot O >>Midamble Shift And Burst Type >>TDD Channelisation O Code >>Maximum E-AGCH O Burst Type >>TDD Channelisation O Code >>Maximum E-AGCH O Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  E-HICH Information   M E-HICH Information   M  M  M  M  M  M  M  M  M  M  M  M	0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
>>Time Slot M >>Midamble Shift And M Burst Type >>TDD Channelisation M Code >>Maximum E-AGCH M Power  Modify E-AGCH Resource Pool >E-AGCH Information  >>E-AGCH ID TDD M >>Time Slot O >>Midamble Shift And Burst Type >>TDD Channelisation Code >>Maximum E-AGCH O Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  >>TDD Channelisation M E-HICH Information    Maximum E-AGCH   Maximum E-HICH Power   Maximum E-HICH Po	ofEAG CHs>				
>>Midamble Shift And Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Modify E-AGCH Resource Pool >E-AGCH Information  >>E-AGCH ID TDD M >>Time Slot O >>Midamble Shift And Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  >>TDD M  ->Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  E-HICH Information  >Midamble Shift And Burst Type  >TDD Channelisation Code >Maximum E-HICH Power M		9.2.3.51		_	
Burst Type  >>TDD Channelisation Code  >>Maximum E-AGCH Power  Modify E-AGCH Resource Pool  >E-AGCH Information  >>E-AGCH ID TDD  >>Time Slot  >>Midamble Shift And Burst Type  >>TDD Channelisation Code  >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  E-HICH Information   M  Code  >Maximum E-HICH Power  M		9.2.3.23		_	
Code  >>Maximum E-AGCH Power  Modify E-AGCH Resource Pool  >E-AGCH Information  >>E-AGCH ID TDD M  >>Time Slot O  >>Midamble Shift And Burst Type  >>TDD Channelisation O  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  E-HICH Information  M  SMidamble Shift And Burst Type  >>TDD Channelisation M  E-HICH Information M  Code  >Maximum E-HICH Power M		9.2.3.7		_	
Power  Modify E-AGCH Resource Pool  >E-AGCH Information  >>E-AGCH ID TDD		9.2.3.19		_	
Pool  >E-AGCH Information  >>E-AGCH ID TDD		DL Power 9.2.1.21		_	
>>E-AGCH ID TDD M >>Time Slot O >>Midamble Shift And Burst Type >>TDD Channelisation O Code >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-HICH Information  M E-HICH Information  M Code >TDD Channelisation M Code >Maximum E-HICH Power M	01		3.84Mcps TDD only	GLOBAL	reject
>>Time Slot >>Midamble Shift And Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  E-HICH Information  >Midamble Shift And Burst Type >TDD Channelisation Code >Maximum E-HICH Power  M	0 <maxno ofEAG CHs&gt;</maxno 			-	
>>Time Slot >>Midamble Shift And Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD  M  E-HICH Information  >Midamble Shift And Burst Type >TDD Channelisation Code >Maximum E-HICH Power  M		9.2.3.51		_	
>>Midamble Shift And Burst Type >>TDD Channelisation Code >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool >E-AGCH ID TDD M  E-HICH Information  >Midamble Shift And Burst Type >TDD Channelisation Code >Maximum E-HICH Power M		9.2.3.23		_	
>>TDD Channelisation Code >>Maximum E-AGCH Power  Delete from E-AGCH Resource Pool >E-AGCH ID TDD M E-HICH Information  >Midamble Shift And Burst Type >TDD Channelisation Code >Maximum E-HICH Power M		9.2.3.7		_	
Power  Delete from E-AGCH Resource Pool  >E-AGCH ID TDD M  E-HICH Information  >Midamble Shift And Burst Type  >TDD Channelisation Code  >Maximum E-HICH Power M		9.2.3.19		_	
Resource Pool  >E-AGCH ID TDD M  E-HICH Information  >Midamble Shift And Burst Type  >TDD Channelisation M Code  >Maximum E-HICH Power M		DL Power 9.2.1.21		_	
<ul> <li>E-HICH Information</li> <li>&gt;Midamble Shift And Burst Type</li> <li>&gt;TDD Channelisation M Code</li> <li>&gt;Maximum E-HICH Power M</li> </ul>	0 <maxno ofEAG CHs&gt;</maxno 			GLOBAL	reject
E-HICH Information  >Midamble Shift And Burst Type  >TDD Channelisation M Code  >Maximum E-HICH Power M	01102	9.2.3.51		_	
Type >TDD Channelisation M Code >Maximum E-HICH Power M	01	0.2.0.01	3.84Mcps TDD only	GLOBAL	reject
>TDD Channelisation M Code >Maximum E-HICH Power M		9.2.3.7		_	
>Maximum E-HICH Power M		9.2.3.19		_	
		DL Power 9.2.1.21		_	
Maximum Generated O		9.2.3.63	Applicable to	YES	reject
Received Total Wide Band Power in Other Cells			3.84Mcps and 7.68 Mcps TDD only		-
E-PUCH Information 7.68Mcps	01		7.68Mcps TDD only	GLOBAL	reject

>LTGI Presence	М		9.2.3.58		_	
>SNPL Reporting Type	М		9.2.3.62		_	
>Midamble Shift And Burst	М		9.2.3.35		_	
Type 7.68Mcps						
>E-PUCH Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofEPUCHs				
		lots>				
>>Time Slot	M		9.2.3.23		_	
Add to E-AGCH Resource		01		7.68Mcps TDD	GLOBAL	reject
Pool 7.68Mcps				only		
>E-AGCH Information		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
		ofEAG				
		CHs>				
>>E-AGCH ID TDD	М		9.2.3.51		_	
>>Time Slot	M		9.2.3.23		_	
>>Midamble Shift And	М		9.2.3.35		_	
Burst Type 7.68Mcps						
>>TDD Channelisation	M		9.2.3.34		_	
Code 7.68Mcps						
>>Maximum E-AGCH	М		DL Power		_	
Power			9.2.1.21			
Modify E-AGCH Resource		01		7.68Mcps TDD	GLOBAL	reject
Pool 7.68Mcps				only		
>E-AGCH Information		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
		ofEAG				
		CHs>				
>>E-AGCH ID TDD	M		9.2.3.51		_	
>>Time Slot	0		9.2.3.23		_	
>>Midamble Shift And	0		9.2.3.35		_	
Burst Type 7.68Mcps	_					
>>TDD Channelisation	0		9.2.3.34		_	
Code 7.68Mcps						
>>Maximum E-AGCH	0		DL Power		_	
Power		0.1	9.2.1.21		0.054	
E-HICH Information		01		7.68Mcps TDD	GLOBAL	reject
7.68Mcps				only		

	T		1	1		
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		_	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.34		_	
>Maximum E-HICH Power	M		DL Power		_	
E-PUCH Information		01	9.2.1.21	1.28Mcps TDD	GLOBAL	reject
1.28Mcps		0 1		only	GLOBAL	16,661
>LTGI Presence	M		9.2.3.58		_	
>SNPL Reporting Type	M		9.2.3.62		_	
>E-PUCH Timeslot information 1.28Mcps per UARFCN		0 <maxfr equencyin Cell&gt;</maxfr 		See note 2 below		
>>E-PUCH Timeslot Information 1.28Mcps		0 <maxno ofEPUCHs lotsLCR&gt;</maxno 			-	
>>>Time Slot LCR	M		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		-	
>>>Codes LCR		1 <maxno ofEPUCHc odes&gt;</maxno 			_	
>>>TDD Channelisation Code	М		9.2.3.19		-	
>>UARFCN	0		9.2.1.65	Corresponds to Nt [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&gt;</maxno 		,	-	
>>E-AGCH ID TDD	М	0,10	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 [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</maxno 			_	
		CHs>				
-	M		9.2.3.51		_	
>>E-AGCH ID TDD >>Time Slot LCR	M O		9.2.3.51 9.2.3.24A		_ 	

>>First TDD	0		TDD		_	
Channelisation Code			Channelisat			
			ion Code			
			9.2.3.19			
>>Second TDD	0		TDD		_	
Channelisation Code			Channelisat			
Onarmondation Code			ion Code			
			9.2.3.19			
>>Maximum E-AGCH	0		DL Power			
	0				_	
Power			9.2.1.21		\	
>>UARFCN	0		9.2.1.65	Corresponds to	YES	ignore
				Nt [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>1</td><td></td><td>_</td><td></td></maxno<>	1		_	
1.28Mcps		ofEHICHs			_	
1.2011003						
E HICH ID TOD	N/A	>	0 2 2 54 5	If the Extended		
>>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	М		9.2.3.68	-	_	
>>TDD Channelisation	М		9.2.3.19		_	
Code						
>>Time Slot LCR	M		9.2.3.24A		_	
>>Midamble Shift LCR	M		9.2.3.7A			
					_	
>>Maximum E-HICH	M		DL Power		_	
Power			9.2.1.21			
>>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.		
>>UARFCN	0		9.2.1.65		YES	ignore
			3.2.1.00	Corresponds to	0	1911010
				Nt[15]		
				Mandatory for		
				1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
Modify E UICH Become		0.1			CLODAL	rois st
Modify E-HICH Resource		01		1.28Mcps TDD	GLOBAL	reject
Pool 1.28Mcps		<b>.</b>		only		
>E-HICH Information		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
1.28Mcps		ofEHICHs				
1	1	>	1	1	l	

	T	1	T.	T	ı	· · · · · · · · · · · · · · · · · · ·
>>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		_	
>>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 [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.	YES	ignore
Delete from E-HICH Resource Pool 1.28Mcps		0 <maxno ofEHICHs &gt;</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

SYNC_UL Partition Information	0.	21	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.		
Maximum Target Received Total Wide Band Power LCR	0	9.2.3.69	1.28Mcps TDD only	YES	reject

- 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.

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

## 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	M		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	0		9.2.3.59a	1.28Mcps TDD only	YES	reject
HS-DSCH Common System Information Response	0		9.2.2.77		YES	ignore
HS-DSCH Paging System Information Response	0		9.2.2.78		YES	ignore

## 9.1.64 PHYSICAL SHARED 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	М		9.2.1.62		_	-
CHOICE Cause Level	M				YES	ignore
>General						
>>Cause	М		9.2.1.6		_	
>Set Specific				TDD Only		
>>Unsuccessful DL Shared Channel Set		0 <maxno ofPDSCH Sets&gt;</maxno 			EACH	ignore
>>>PDSCH Set ID	М		9.2.3.13		_	
>>>Cause	M		9.2.1.6		_	
>>Unsuccessful UL Shared Channel Set		0 <maxno ofPUSCH Sets&gt;</maxno 			EACH	ignore
>>>PUSCH Set ID	M		9.2.3.13		_	
>>>Cause	M		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&gt;</maxfreq 			EACH	ignore
>>>>UARFCN	M		9.2.1.65	Corresponds to Nt [15] Used to indicate the carrier on which HSDPA or E-DCH related resources configuration failure occurs.	_	
>>>>HS-Cause	0		9.2.1.6	Used to indicate the cause of HSDPA configuration. failure	-	
>>>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

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	M				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&gt;</maxc 			EACH	reject
>>>Communication Control Port ID	M		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&gt;</maxno 			EACH	ignore
>RL ID	М		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	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Information Exchange ID	M		9.2.1.36C		YES	reject
CHOICE Information Exchange Object Type	М				YES	reject
>Cell						
>>C-ID	M		9.2.1.9		_	
Information Type	M		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 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		_	
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 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

## 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	М		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	М		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	М		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 Power	М		DL 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	М		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	М		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	M	9.2.3.18B	_	
>Synchronisation Report	M	9.2.3.18E	_	
Туре				
>Synchronisation Report	M	9.2.3.18D	_	
Characteristics				

# 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	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
Time Slot	М		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	М		9.2.3.7C		YES	reject
Cell Sync Burst Transmission Reconfiguration Information		0 <maxno ofCellSync Bursts&gt;</maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N		_	
>Sync Frame Number To Transmit	М		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	0.22	Applicable to 3.84Mcps TDD only	YES	reject
>Cell Sync Burst Measurement Information		1 <maxno ofCellSync Bursts&gt;</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&gt;</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&gt;</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 &gt;</maxno 			-	
>>Sync Frame Number To Receive	M		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	M		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
maxnoofSyncDLCodesLCR	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	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

# 9.1.80 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&gt;</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&gt;</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&gt;</maxno 			_	
>>>>CHOICE Cell Sync Burst Availability Indicator	M				_	
>>>> Cell Sync Burst Available						
>>>>>Cell Sync Burst Timing	M		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&gt;</maxno 		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>>SFN	М		9.2.1.53A		_	
>>>SYNC_DL Code Information		1 <maxno ofreceptio nsperSync FrameLCR</maxno 			_	

		>			
>>>>CHOICE SYNC_DL Code Availability Indicator	M			-	
>>>>SYNC_DL Code Available					
>>>>SYNC_ DL Code ID Timing	М		Cell Sync Burst Timing LCR 9.2.3.4La	-	
>>>>SYNC_ DL Code ID SIR	M		Cell Sync Burst SIR 9.2.3.4K	ı	
>>>>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	Semantics	Criticality	Assigned
_			and	Description	_	Criticality

			Reference			
Message Discriminator	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cell Adjustment		1 <maxce< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxce<>			EACH	ignore
Information		llinNode B>				
>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	ı	
>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	Semantics Description	Criticality	Assigned Criticality
			Reference	2000		
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

# 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	M		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		_	
>Cell Specific						
>>Unsuccessful Cell Information Response		1 <maxce IlinNode B&gt;</maxce 			EACH	ignore
>>>C-ID	M		9.2.1.9		_	
>>>Cause	M		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 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	М		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&gt;</maxno 			GLOBAL	ignore
>DCH ID	M		9.2.1.20		_	
DSCHs To Re-arrange		0 <maxno ofDSCHs&gt;</maxno 		TDD only	GLOBAL	ignore
>DSCH ID	М		9.2.3.5a		_	
USCHs To Re-arrange		0 <maxno ofUSCHs&gt;</maxno 		TDD only	GLOBAL	ignore
>USCH ID	М		9.2.3.27		_	
HS-DSCHs MAC-d Flow To Re-arrange		0 <maxno ofMACdFl ows&gt;</maxno 			GLOBAL	ignore
>HS-DSCH MAC-d Flow ID	М		9.2.1.311			
E-DCHs MAC-d Flow To Rearrange		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			GLOBAL	ignore
>E-DCH MAC-d Flow ID	М		9.2.1.29ad		_	

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

## 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	М		9.2.1.48		YES	ignore
Delayed Activation Information		1 <maxno ofRLs&gt;</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&gt;</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	М		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

## 9.1.89.2 TDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic 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
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&gt;</maxno 			GLOBAL	ignore
>NI	М		9.2.1.47F		_	

Range Bound	Explanation		
maxNoofNIs	Maximum number of NIs		

## 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. [3], following values are defined. If the value of this IE is "empty", this implies that none of the status conditions described in ref. [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 [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 [2][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 [29], this IE contains the UDP port [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 Reference	Semantics Description
Blocking Priority Indicator			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.

#### 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 [10] and [21]
Burst Length	M		INTEGER (1025)	See [10] and [21]
Burst Freq	M		INTEGER (116)	See [10] and [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	М			-
>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	
	1		available, Requested configuration not	
			supported,	
	1		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,	
	1		Downlink Shared Channel	
			Type not supported, Uplink Shared Channel Type	
	1		not supported,	
	1		CM not supported,	
			Tx diversity no longer	
			supported,	
	1		Unknown Local Cell ID,	
	1		November of III and	
			Number of UL codes not	
	1		supported, Information temporarily not	
	1		available,	
			Information Provision not	
			supported for the object,	
			Cell Synchronisation not	
	1		supported,	
	1		Cell Synchronisation	
			Adjustment not supported,	
	1		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 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)	
>Transport Layer		initio fiet available)	
>>Transport Layer Cause	М	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	Meaning
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see
	subclause 8.2.16.3).

D D	1		
	the requested Radio Link Reconfiguration		
without bearer re-arrangemen			
Cell not Available The concerned cell or local ce			
	The concerned cell(s) do not support Cell Synchronisation.  The Node B does not support RL combining for the concerned cells.		
	versity Control Field IE was set to "Must",		
but the Node B cannot perform			
CM not supported The concerned cell(s) do not s			
	support the RACH and/or FACH Common		
supported Transport Channel Type.			
	Coperation not available in the concerned		
DTX-DRX operation not available cell(s).	77.6		
	TX Cycle not available in the concerned		
DTX Cycle not available cell(s).			
	support the Dedicated Transport Channel		
supported Type.			
	support delayed activation of RLs.		
	fficient DL radio resources available.		
DL SF not supported The concerned cell(s) do not s			
, , ,	support the Downlink Shared Channel		
supported Type.			
DPC Mode Change not Supported The concerned cells do not su			
	support Frequency Acquisition.		
F-DPCH not supported The concerned cell(s) do not s			
Information Provision not supported The requested information pro	ovision is not supported for the concerned		
for the object object types.			
	n temporarily not be provided.		
Invalid CM Settings The concerned cell(s) consider	er the requested Compressed Mode settings		
invalid.			
IPDL already activated The concerned cell(s) have also	ready active IPDL ongoing.		
IPDL not supported The concerned cell(s) do not s			
applied.	have IPDL parameters defining IPDL to be		
Measurement not Supported For The At least one of the concerned	cell(s) does not support the requested		
Object measurement on the concerne			
Measurement Temporarily not The Node B can temporarily n	not provide the requested measurement		
Available value.			
MICH not supported The concerned cell does not s	support MICH.		
MIMO not available MIMO resources not available	e in the concerned cell(s).		
Modification Period not available The Node B does not have mo	odification period available.		
Node B resources unavailable The Node B does not have sur			
	support the requested number of DL codes.		
	support the requested number of UL codes.		
Power Level not Supported A DL power level was reques	sted which the concerned cell(s) do not		
support.			
	n the SRNC is not compatible with that of		
the Node B.	77 0 077		
PLCCH not supported The concerned cell does not s			
	ne requested blocking since a transport		
channel with a high priority is	*		
	support adjustments of the RL timing.		
	be performed due to that a RADIO LINK		
	IMIT message was received previously,		
but the concerned CFN has no			
	support the requested configuration i.e.		
Supported power levels, Transport Form	nats, physical channel parameters.		
Requested Type of Bearer Re-  The Node B does not support	the requested type of bearer re-		
Requested Type of Bearer Rearrangement not supported  The Node B does not support arrangement.	the requested type of bearer re-		
Requested Type of Bearer Rearrangement not supported  The Node B does not support arrangement.			

RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for
	this UE context.
S-CPICH not supported	The concerned cell(s) do not support S-CPICH.
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	
Synchronisation Failure	Loss of UL Uu synchronisation.
Cell Synchronisation Adjustment not	The concerned cell(s) do not support Cell Synchronisation Adjustment.
supported	
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.

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. [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&gt;</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	М		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	М			
>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class	М		T <sub>UTRAN-GPS</sub> Accuracy Class 9.2.1.64C	
>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class	M		T <sub>UTRAN-GANSS</sub> 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			Reference  ENUMERATED ( Received Total Wide Band Power,  Transmitted Carrier  Power,  Acknowledged  PRACH Preambles,  UL Timeslot ISCP,  NotUsed-1,  NotUsed-2, ,  UTRAN GPS Timing  of Cell Frames for  UE Positioning,  SFN-SFN Observed  Time Difference,  Transmitted carrier  power of all codes  not used for HS  transmission, HS-DSCH Required  Power,  HS-DSCH Provided  Bit Rate, Received  Total Wide Band  Power for Cell  Portion, Transmitted  Carrier Power for  Cell Portion,  Transmitted carrier  power of all codes  not used for HS-PDSCH HS-SCCH  E-AGCH E-RGCH or  E-HICH transmission  for Cell Portion,  UpPCH Interference,  DL Transmission  Branch Load,  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  E-DCH Power  Share, Received  Scheduled E-DCH  Power Share for Cell  Portion, UTRAN  GANSS Timing of  Cell Frames for UE  Positioning)	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles", 'DL Transmission Branch Load' are used by FDD only, 'UpPCH interference' is used by 1.28Mcps TDD only. This IE shall never be set to the values that are prefixed "NotUsed-". [TDD - The IE Type "Transmitted carrier power of all codes not used for HS transmission" corresponds to the measurement "Transmitted carrier power of all codes not used for HS-PDSCH [TDD - E-AGCH, E-HICH] or HS-SCCH transmission" in [5] and [23].] [FDD - The IE Type "Transmitted carrier power of all codes not used for HS transmission" corresponds to the measurement "Transmitted carrier power of all codes not used for HS-PDSCH HS-SCCH E-AGCH E-RGCH or E-HICH transmission" in [4] and [22].]

## 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 Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	-	
Value >Received Total			()	[ ][ .]		
Wide Band Power >>Received Total	M		INTEGER	According to mapping		
Wide Band Power Value	IVI		(0621)	in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD Only		
>>Acknowledged PRACH Preamble Value	М		INTEGER (0240,)	According to mapping in [22]	_	
>UL Timeslot ISCP				TDD Only		
>>UL Timeslot ISCP	М		INTEGER (0127)	According to mapping in [23]	_	
>Not used 1			NULL	This choice shall not be used. Ignore if received.		
>Not Used 2			NULL	This choice shall not be used. Ignore if received.		
>Additional Common Measurement Values				See Note 1		
>>UTRAN GPS Timing Of Cell Frames for UE						
Positioning >>>T <sub>UTRAN-GPS</sub> Measurement	M		9.2.1.64A		YES	ignore
Value Information >>SFN-SFN Observed Time						
Difference >>>SFN-SFN Measurement	M		9.2.1.53E		YES	ignore
Value Information >>Transmitted						
Carrier Power Of All Codes Not Used For HSTransmission						
>>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission Value	М		INTEGER (0100)	According to mapping in [22], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission" and mapping in [23], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-	YES	ignore
>>HS-DSCH				PDSCH Or HS-SCCH Transmission"		
Required Power						
>>>HS-DSCH Required Power	М		9.2.1.31lc		YES	ignore

Malua I. C.	I	1	1		Г	
Value Information						
>>HS-DSCH						
Provided Bit Rate	NA.		0.04.0415		VEC	ianan-
>>>HS-DSCH	М		9.2.1.31lb		YES	ignore
Provided Bit Rate						
Value Information	<u> </u>			EDD Oak		
>>Transmitted				FDD Only		
Carrier Power For						
Cell Portion					0.05	
>>>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		S>				
>>>Cell	М		9.2.2.1Ca		_	
Portion ID						
>>>>Transmitte	М		INTEGER	According to mapping	_	
d Carrier Power			(0100)	in [22]		
Value						
>>Received Total				FDD Only		
Wide Band Power						
For Cell Portion						
>>>Received		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Total Wide Band		NrOfCel				
Power For Cell		<i>IPortion</i>				
Portion Value		S>				
>>>Cell	М		9.2.2.1Ca		_	<u></u>
Portion ID						
>>>Received	М		INTEGER	According to mapping	_	
Total Wide			(0621)	in [22]		
Band Power			, ,			
Value						
>>Transmitted				FDD Only		
Carrier Power Of All				1		
Codes Not Used						
For HS-PDSCH,						
HS-SCCH, E-						
AGCH, E-RGCH 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			OLOD/ (L	igiloro
All Codes Not		IPortion 1				
Used For HS-		s>				
PDSCH, HS-		37				
SCCH, E-AGCH,						
E-RGCH or E-						
HICH						
Transmission						
For Cell Portion						
Value						
>>>Cell	M		9.2.2.1Ca		_	
Portion ID	IVI		3.2.2.10a		]	
>>>Transmitte	M		INTEGER	According to mapping	_	
d Carrier Power	141				_	
			(0100)	in [22]		
Of All Codes						
Not Used For						
HS-PDSCH,						
HS-SCCH, E- AGCH, E-						
RGCH or E-						
HICH						
Transmission						
Value				1 0004 - TDT 0 :		
>>UpPCH				1.28Mcps TDD Only		
interference			<b> </b>	1		
>>>UpPCH	М		INTEGER	According to mapping	YES	ignore
interference Value			(0127,)	in [23]		

		1	1	T	1	
>>DL Transmission				FDD Only		
Branch Load						
>>>Node B DL	M		INTEGER	According to mapping	YES	ignore
Transmission			(0101,)	in [22]		
Branch Load						
Values						
>>HS-DSCH				FDD Only		
Required Power				1 22 31119		
For Cell Portion						
		4			CLODAL	
>>>HS-DSCH		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Required Power		NrOfCel				
For Cell Portion		<i>IPortion</i>				
Information		S>				
>>>Cell	M		9.2.2.1Ca		_	
Portion ID						
>>>HS-DSCH	M		9.2.1.31lc		_	
Required Power						
Value						
Information						
>>HS-DSCH				FDD Only		
Provided Bit Rate		1		1 DD Offiny		
		1				
For Cell Portion	<del>                                     </del>	<del>                                     </del>		+	01.05.41	•
>>>HS-DSCH		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Provided Bit		NrOfCel				
Rate For Cell		<i>IPortion</i>				
Portion		s>				
Information						
>>>Cell	M		9.2.2.1Ca		_	
Portion ID						
>>>HS-DSCH	М		9.2.1.31lb		_	
Provided Bit			0.2.1.01.0			
Rate Value						
Information						
>>E-DCH Provided						
Bit Rate						
>>>E-DCH	M		9.2.1.78		YES	ignore
Provided Bit Rate						
Value Information						
>>E-DCH Non-				FDD Only		
serving Relative						
Grant Down						
Commands						
>>>E-DCH Non-	М		INTEGER	Down Commands per	YES	ianoro
	IVI				163	ignore
serving Relative		1	(0100,)	second		
Grant Down		1				
Commands Value		1				
Information	1	ļ				
>>Received		1		FDD Only		
Scheduled E-DCH		1		According to definition		
Power Share		1		in [4]		
>>>Received		1			YES	ignore
Scheduled E-		1				5
DCH Power		1				
Share		1				
>>>RSEPS	M	<del>                                     </del>	INTEGER	According to mapping	_	
	IVI	1			_	
Value		1	(0151)	in [22]		
>>>>RTWP*	0	1	INTEGER	According to mapping	_	
Value		ļ	(0621)	of RTWP in [22]		
>>Received		1		FDD only		
Scheduled E-DCH		1		According to definition		
Power Share for		1		in [4]		
Cell Portion		1				
>>>Received		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Scheduled E-		NrOfCel			J_05/(L	.90.0
DCH Power		IPortion				
Share For Cell		S>				
		3/				
Portion Value		1				

>>>Cell Portion ID	M	9.2.2.1Ca		_	
>>>>RSEPS for Cell Portion Value	М	INTEGER (0151)	According to mapping in [22].	-	
>>>>RTWP* for Cell Portion Value	0	INTEGER (0621)	According to mapping of RTWP in [22]	-	
>>UTRAN GANSS Timing Of Cell Frames for UE Positioning					
>>>T <sub>UTRAN-GANSS</sub> Measurement Value Information	M	9.2.1.100		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		
MaxNrOfCellPortions	Maximum number of Cell Portions in a cell		

#### 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	М		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			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		_	
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	M		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 Reference	Semantics Description
O-afinometica O-a-a-tica ID				\/_L   O     N  _
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)	cadoda ine errer	_	
>Ddmode	M		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&gt;</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 [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	M	•	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. [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
			Reference	
SF Allocation Law		1 <maxno ofSFs&gt;</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	M		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	M		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&gt;</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	Semantics Description
			Reference	
DL Power			INTEGER	Value = DL Power /10
			(-350150)	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
Dedicated Measurement Type			Reference  ENUMERATED ( SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time,, Rx Timing Deviation LCR, Angle Of Arrival LCR, HS-SICH reception quality, Best Cell Portions, Rx Timing Deviation 7.68Mcps, Rx Timing Deviation 3.84 Mcps Extended)	"RSCP" and "HS-SICH reception quality" are used by TDD only. "Rx Timing Deviation" and "Rx Timing Deviation 3.84 Mcps Extended" are used by 3.84Mcps TDD only. "Rx Timing Deviation LCR", "Angle Of Arrival LCR" are used by 1.28Mcps TDD only. "Round Trip Time", "SIR Error" are used by FDD only. 'Best Cell Portions' is used by FDD only. "Rx Timing Deviation 7.68Mcps" is used by 7.68Mcps TDD only.

Note: For definitions of the measurement types refer to [4] and [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	М				_	
Measurement Value						
>SIR Value						
>>SIR Value	M		INTEGER	According to mapping	_	
			(063)	in [22] and [23]		
>SIR Error Value				FDD only		
>>SIR Error Value	M		INTEGER	According to mapping	_	
			(0125)	in [22]		
>Transmitted Code Power Value						
>>Transmitted	М		INTEGER	According to mapping	_	
Code Power Value			(0127)	in [22] and [23].		
				Values 0 to 9 and 123		
				to 127 shall not be		
				used.		
>RSCP				TDD only		
>>RSCP	M		INTEGER	According to mapping	_	
			(0127)	in [23]		
>Rx Timing Deviation				Applicable to		
Value				3.84Mcps TDD only		
>>Rx Timing	M		INTEGER	According to mapping	_	
Deviation			(08191)	in [23]		
>Round Trip Time				FDD only		
>>Round Trip Time	M		INTEGER	According to mapping	_	
			(032767)	in [22]		
>Additional				See Note 1.		
Dedicated						
Measurement Values						
>>Rx Timing				Applicable to		
Deviation Value				1.28Mcps TDD only		
LCR					/=0	
>>>Rx Timing	M		INTEGER	According to mapping	YES	reject
Deviation LCR			(0511)	in [23]		
>>Angle Of Arrival				Applicable to		
Value LCR >>>AOA Value		1		1.28Mcps TDD only	YES	roicot
LCR		'			150	reject
>>>AOA LCR	М		INTEGER	According to mapping	_	
			(0719)	in [23]		
>>>AOA LCR	M		ENUMERATE	According to mapping	_	
Accuracy Class			D(	in [23]		
			A, B, C, D, E,			
>>HS-SICH			F, G, H,)	Applicable to TDD		
Reception Quality				only		
>>>HS-SICH		1		Offig	YES	reject
Reception		'			120	10,000
Quality Value						
>>>Failed HS-	М		INTEGER	According to mapping	_	
SICH			(020)	in [23]	1	
>>>Missed	М	1	INTEGER	According to mapping	_	
HS-SICH			(020)	in [23]	1	
>>>>Total HS-	M		INTEGER	According to mapping	_	
SICH			(020)	in [23]		
>>>Failed HS-	0		INTEGER	According to mapping	YES	reject
SICH LCR			(020)	in [23]	1	
extension				Mandatory for LCR	1	
				TDD when there are	1	
				more than 20 failed	1	
				HS-SICH		
>>>Missed	0		INTEGER	According to mapping	YES	reject
HS-SICH LCR			(020)	in [23]	1	
extension				Mandatory for LCR	1	
				TDD when there are		
	1	ĺ	1	more than 20 missed		1

			HS-SICH		
>>>>Total HS- SICH LCR extension	0	INTEGER (020)	According to mapping in [23] Mandatory for LCR TDD when there are more than 20 total HS-SICH	YES	reject
>>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 [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 [23]	YES	reject
>>Extended Round Trip Time			FDD only		
>>>Extended Round Trip Time Value	M	INTEGER (3276710304 1)	Continuation of intervals with step size as defined in [22].	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.

#### 9.2.1.24A 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 Availability Indicator	М			
>Measurement Available				
>>Dedicated Measurement Value	М		9.2.1.24	
>>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 [28].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GPS TOW	М		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 <maxno Sat&gt;</maxno 		
>SatID	М		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [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 eight-bit 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-\sigma) 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

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 Activation Update	М				_	
>Activate						
>>CHOICE Activation Type	М				_	
>>>Synchronised						
>>>Activation CFN	M		CFN 9.2.1.7		_	
>>>Unsynchronised			NULL			
>>Initial DL TX Power	М		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 Propagation Delay	0		9.2.2.35A	FDD Only	YES	reject
>Deactivate						
>>CHOICE Deactivation Type	М				_	
>>>Synchronised						
>>>Deactivation CFN	М		CFN 9.2.1.7		_	
>>>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 reference	Semantics description
Discard Timer			ENUMERATED (20, 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,)	Unit: ms

## 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	Semantics Description
			Reference	
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 Reference	Semantics Description
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)	

## 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 [27].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Navigation Message 1to3		1 <maxno Sat&gt;</maxno 		
>Transmission TOW	М		INTEGER (01048575)	Time of the Week when the message is broadcast.
>SatID	M		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].
>TLM Message	M		BIT STRING (14)	
>Tlm Revd (C)	M		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 <sub>GD</sub>	M		BIT STRING (8)	
>t <sub>oc</sub>	M		BIT STRING (16)	
>af <sub>2</sub>	M		BIT STRING (8)	
>af₁	M		BIT STRING (16)	
>af <sub>0</sub>	M		BIT STRING (22)	
>C <sub>rs</sub>	M		BIT STRING (16)	
>∆n	M		BIT STRING (16)	
>M <sub>0</sub>	M		BIT STRING (32)	
>C <sub>uc</sub>	M		BIT STRING (16)	
>e	M		BIT STRING (32)	
>C <sub>us</sub>	M		BIT STRING (16)	
>(A) <sup>1/2</sup>	M		BIT STRING (32)	
>t <sub>oe</sub>	M		BIT STRING (16)	
>Fit Interval Flag	M		BIT STRING (1)	
>AODO	M		BIT STRING (5)	
>C <sub>ic</sub>	M		BIT STRING (16)	
>OMEGA <sub>0</sub>	M		BIT STRING (32)	
>C <sub>is</sub>	М		BIT STRING (16)	
>i <sub>0</sub>	М		BIT STRING (32)	
>C <sub>rc</sub>	M		BIT STRING (16)	
>ω	М		BIT STRING (32)	
>OMEGAdot	М		BIT STRING (24)	
>ldot	М		BIT STRING (14)	
>Spare/zero fill	M		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 [27].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
α <sub>0</sub>	M		BIT STRING (8)	
$\alpha_1$	M		BIT STRING (8)	
$\alpha_2$	M		BIT STRING (8)	
α <sub>3</sub>	M		BIT STRING (8)	
βο	M		BIT STRING (8)	
β <sub>1</sub>	M		BIT STRING (8)	
$\beta_2$	M		BIT STRING (8)	
β <sub>3</sub>	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 [27].

IE/Group Name			IE Type and Reference	Semantics Description
A <sub>1</sub>	M		BIT STRING (24)	
A <sub>0</sub>	M		BIT STRING (32)	
t <sub>ot</sub>	M		BIT STRING (8)	
$\Delta t_{LS}$	M		BIT STRING (8)	
WN <sub>t</sub>	M		BIT STRING (8)	
WN <sub>LSF</sub>	M		BIT STRING (8)	
DN	M		BIT STRING (8)	
$\Delta t_{LSF}$	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 [27].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Bad Satellites Presence	M			
>Bad Satellites				
>>Satellite Information		1 <maxno Sat&gt;</maxno 		
>>>BadSatID	M		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [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 [27].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
WN <sub>a</sub>	M		BIT STRING (8)	
Satellite Information	M	1 <maxno OfSatAlma nac&gt;</maxno 		See Note 1.
>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 [27].
>e	M		BIT STRING (16)	
>t <sub>oa</sub>	M		BIT STRING (8)	
>δi	M		BIT STRING (16)	
>OMEGADOT	M		BIT STRING (16)	
>SV Health	M		BIT STRING (8)	
>A <sup>1/2</sup>	M		BIT STRING (24)	
>OMEGA <sub>0</sub>	M		BIT STRING (24)	
>M <sub>0</sub>	M		BIT STRING (24)	
>ω	М		BIT STRING (24)	
>af <sub>0</sub>	М		BIT STRING (11)	
>af₁	M		BIT STRING (11)	
SV Global Health	0		BIT STRING (364)	

Range Bound	Explanation
maxNoOfSatAlmanac	Maximum number of satellite almanacs for which information can be
	provided

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.

# 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 <sup>23</sup> -1)	The IE value (N) is derived by this formula: N≤2 <sup>23</sup> X /90 < N+1 X being the latitude in degree (0° 90°)
Degrees of Longitude	M		INTEGER (-2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: N≤2 <sup>24</sup> X /360 < N+1 X being the longitude in degree (-180°+180°)
Direction of Altitude	М		ENUMERATED ( Height, Depth)	
Altitude	M		INTEGER (02 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is N≤ a <n+1, except="" for="" n="2&lt;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&gt;</maxno 			-	
>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&gt;</maxno 			_	
>CHOICE Priority Queue	М	0.007			_	
>>Add Priority Queue						
>>>Priority Queue ID	М		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		_	
>>>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 &gt;</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	_	

	1	T			1	1
				MAC-d PDU		
	1			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			
			9.2.1.38C			
>>Modify Priority Queue						
>>>Priority Queue ID	M		9.2.1.49C	Shall only refer	_	
·				to a Priority		
				Queue already		
				existing in the		
				old		
				configuration.		
>>>Scheduling Priority	0		9.2.1.53H	J	_	
Indicator			0.2.1.0011			
>>>T1	0		9.2.1.56a		_	
>>>Discard Timer	Ō		9.2.1.24E		_	
>>>MAC-hs Window	0		9.2.1.38B		_	
Size			9.2.1.300		_	
	0		0.2.1.2010			
>>>MAC-hs Guaranteed	0		9.2.1.38Aa		_	
Bit Rate	<del>                                     </del>	0 1000100		<del> </del>		
>>>MAC-d PDU Size		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Index		ofMACdP				
		DUindexes				
		>				
>>>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.		
>>>Maximum MAC-d	0		MAC PDU		YES	reject
PDU Size Extended			Size			_
			Extended			
			9.2.1.38C			
>>Delete Priority Queue						
>>>Priority Queue ID	М		9.2.1.49C	Shall only refer	_	
7771 Holly Quode 15	'*'		0.2.1.100	to a Priority		
				Queue already		
				existing in the		
				old		
				configuration.		
MAC-hs Reordering Buffer	0		9.2.1.38Ab	oorniguration.	_	
Size for RLC-UM			3.2.1.30AD		_	
	0	-	0.0.0.04D	For EDD ank		
CQI Feedback Cycle k			9.2.2.21B	For FDD only	_	
CQI Repetition Factor	0		9.2.2.4Cb	For FDD only	_	1
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	_	
	0		9.2.1.31L			
HS-SCCH Code Change	1					
Grant						1
Grant	0		9.2.3.18F	For TDD only	_	
Grant TDD ACK NACK Power	0		9.2.3.18F	For TDD only	_	
TDD ACK NACK Power Offset				·	- YES	ianore
Grant TDD ACK NACK Power	0 0		9.2.3.18F 9.2.2.18a UL SIR	For TDD only  For FDD only  Applicable to	YES YES	ignore ignore

				only		
UE Capabilities Information		01		•	YES	ignore
>HS-DSCH Physical Layer Category	0		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
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		9.2.2.72	For FDD 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

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&gt;</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&gt;</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	1	, , ,	YES	ignore
>HS-DSCH Physical Layer Category	0		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
HS-SICH TPC step size	0		9.2.3.21a	Applicable to 1.28Mcps TDD	YES	ignore

			only		
MIMO Mode Indicator	0	9.2.2.72	For FDD only	YES	reject
Sixtyfour QAM Usage	0	9.2.2.74A	For FDD only	YES	ignore
Allowed Indicator					

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 &gt;</max 			_	
>Scheduling Priority Indicator	M		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 Specific Information		1 <maxno ofMACdFl</maxno 			_	
		ows>				

>HS-DSCH MAC-d Flow ID	M		9.2.1.311			
>Allocation/Retention	M		9.2.1.1A		_	
Priority						
>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		1 <maxno ofPrioQue ues&gt;</maxno 			-	
>Priority Queue ID	М		9.2.1.49C		_	
>Associated HS-DSCH MAC-d Flow	M		HS-DSCH MAC-d Flow ID 9.2.1.31I	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 the same HS-DSCH MAC-d Flow ID.	-	
>Scheduling Priority Indicator	М		9.2.1.53H		_	
>T1	М		9.2.1.56a			
>Discard Timer	0		9.2.1.24E		_	
>MAC-hs Window Size	M		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 PDU Size Extended	0		MAC PDU Size Extended 9.2.1.38C		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

## 9.2.1.31IB 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&gt;</maxno 		
>HS-DSCH MAC-d Flow ID	M		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 not present or set to "Indexed Size Capable" the Local Cell is only "Indexed Size Capable".

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d PDU Size Capability			ENUMERAT 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* 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 [24] and [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d PDU Size Format			ENUMERATED (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 [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 [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Provided Bit Rate Value			INTEGER (02^24-1,)	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 Reference	Semantics Description
HS-DSCH Provided Bit Rate Value Information		1 <maxno ofPriorityCl asses&gt;</maxno 		
>Scheduling Priority Indicator	M		9.2.1.53H	
>HS-DSCH Provided Bit Rate Value	М		9.2.1.31laa	

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 Value			INTEGER (01000)	Expressed in thousandths of 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&gt;</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&gt;</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. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_DATA			BIT STRING	Contains "SIB data fixed" or "SIB data variable" in segment as encoded in ref. [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. [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, SIB15.2, SIB15.3, SIB15.3, SIB16,	
			SIB17, SIB15.4, SIB15.5, SIB15.5, SIB5bis, SIB11bis, SIB15bis, SIB15.1bis, SIB15.2bis, SIB15.3bis, 15.6, 15.7, 15.8)	

# 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.

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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&gt;</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	_	
>GANSS Generic Data		0 <maxno GANSS&gt;</maxno 			_	
>>GANSS ID	0		9.2.1.104		_	
>>GANSS Navigation Model And Time Recovery	0		BOOLEAN	True means requested	ı	
>>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  Other bits are reserved.		
>>GANSS UTC Model	0		BOOLEAN	True means	_	
>>GANSS Almanac	0		BOOLEAN	requested 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 <maxsgn Type&gt;</maxsgn 			_	
>>>>GANSS data bit assistance	М		BOOLEAN	True means requested	-	

Condition	Explanation
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 <i>Information Type Item</i> IE indicates
	"GANSS Information".

Range Bound	Explanation
maxNoGPSItems	Maximum number of GPS Information Items supported in one
	Information Exchange
maxNoGANSS	Maximum number of GANSS Systems
maxSgnType	Maximum number of GANSS signals included in the IE

#### 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 Item	М			
>DGPS				
>>PRC Deviation	М		ENUMERATED (1, 2, 5, 10,)	PRC deviation in meters from the previously reported value, which shall trigger a report
>DGANSS				
>>PRC Deviation	М		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 Reference	Semantics Description
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	Unit: bit/s
			(02^24-1,,	
			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 PDU retransmission as defined in [32].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
MAC-hs Window Size			ENUMERATED (4,	For 1.28Mcps TDD when TSN
			6, 8, 12, 16, 24,	length is configured to 9bits,
			32,)	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,)	

### 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	M		INTEGER (0620)	Unit: dB Range: 062 dB Step: 0.1 dB	_	
>Transmitted Carrier Power						
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD only		
>>Acknowledged PRACH Preambles	М		INTEGER (0240,)	According to mapping in [22]	_	
>UL Timeslot ISCP				TDD only		
>>UL Timeslot ISCP	M		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	M		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	M		INTEGER (0126)	Unit: dB Range: 063 dB Step: 0.5 dB	-	
>Round Trip Time				FDD only		
>>Round Trip Time	M		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 [22], measurement "Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission"	YES	reject

	1	<u> </u>			1
			and mapping in [23],		
			measurement		
			"Transmitted Carrier		
			Power Of All Codes		
			Not Used For HS-		
			PDSCH Or HS-SCCH		
			Transmission"		
>>Transmitted			FDD only		
Carrier Power For					
Cell Portion					
>>>Transmitted	М	INTEGER	Mapping identical to	YES	reject
	IVI			ILS	reject
Carrier Power For		(0100)	the one for		
Cell Portion			Transmitted Carrier		
			Power measurement		
			in [22]		
>>Received Total			FDD only		
Wide Band Power			. 55 only		
For Cell Portion					
>>>Received	M	INTEGER	Unit: dB	YES	reject
Total Wide Band		(0620)	Range: 062 dB		
Power For Cell		( /	Step: 0.1 dB		
Portion			5.0p. 5.1 db		
			EDD only		
>>Transmitted			FDD only		
Carrier Power Of All					
Codes Not Used					
For HS-PDSCH,					
HS-SCCH, E-					
AGCH, E-RGCH or					
E-HICH					
Transmission For					
Cell Portion					
>>>Transmitted	M	INTEGER	Mapping identical to	YES	reject
Carrier Power Of		(0100)	the one for		,
All Codes Not		(0100)	Transmitted Carrier		
Used For HS-			Power Of All Codes		
PDSCH, HS-			Not Used For HS-		
SCCH, E-AGCH,			PDSCH, HS-SCCH,		
E-RGCH or E-			E-AGCH, E-RGCH or		
HICH			E-HICH Transmission		
Transmission For					
			measurement in [22]		
Cell Portion					
>>UpPCH			1.28Mcps TDD Only		
interference					
>>>UpPCH	M	INTEGER	According to mapping	YES	reject
interference Value		(0127,)	in [23]		.,
>>Received		(0121,)	FDD only		
			FUD OHIY		
Scheduled E-					
DCH Power					
Share					
>>>RSEPS value	M	INTEGER	According to mapping	YES	reject
		(0151)	in [22]		.,
>>Received		(5101)	FDD only		
			1 DD Only		
Scheduled E-DCH					
Power Share For					
Cell Portion					
>>>RSEPS value	M	INTEGER	According to mapping	YES	reject
		(0151)	in [22]		.,
1	1	( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	··· [ <del></del> ]		1

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			NULL	
Support Indicator				

#### 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 Wide Band Power	М		INTEGER (0621)	According to mapping in [22] and [23]	-	
>Transmitted Carrier			(0621)	iii [22] and [23]		
Power >>Transmitted	M		INTEGER	According to mapping	_	
Carrier Power >Acknowledged			(0100)	in [22] and [23] FDD only		
PRACH Preambles >>Acknowledged	M		INTEGER	According to mapping	_	
PRACH Preambles >UL Timeslot ISCP	101		(0240,)	in [22] TDD only		
>>UL Timesiot ISCP >>UL Timesiot	M		INTEGER	According to mapping	_	
ISCP >SIR			(0127)	in [23]		
>>SIR	М		INTEGER	According to mapping	_	
>SIR Error			(063)	in [22] and [23] FDD only		
>>SIR Error	M		INTEGER	According to mapping	_	
>Transmitted Code			(0125)	in [22]		
Power						
>>Transmitted Code Power	М		INTEGER (0127)	According to mapping in [22] and [23]	_	
>RSCP			,	TDD only		
>>RSCP	М		INTEGER (0127)	According to mapping in [23]	_	
>Rx Timing Deviation				Applicable to 3.84Mcps TDD only		
>>Rx Timing Deviation	М		INTEGER (08191)	According to mapping in [23]	_	
>Round Trip Time			,	FDD only		
>>Round Trip Time	М		INTEGER (032767)	According to mapping in [22]	_	
>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				See Note 1.		
Measurement Thresholds						
>>UTRAN GPS Timing Of Cell Frames For UE					_	
Positioning	NA.		0.04.040		VEO	y=:==4
>>>T <sub>UTRAN-GPS</sub> Measurement Threshold	M		9.2.1.64B		YES	reject
Information >>SFN-SFN						
>>SFIN-SFIN Observed Time Difference						
>>>SFN-SFN Measurement	М		9.2.1.53C		YES	reject
Threshold Information						
>>Rx Timing Deviation LCR				Applicable to 1.28Mcps TDD Only		
>>>Rx Timing Deviation LCR	М		INTEGER (0511)	According to mapping in [23]	YES	reject

>>HS-SICH			Applicable to TDD		
Reception Quality			Only		
>>>HS-SICH	М	INTEGER	According to mapping	YES	reject
Reception Quality		(020)	in [23]		
>>Transmitted Carrier Power Of All					
Codes Not Used					
For					
HSTransmission				\/=0	
>>>Transmitted Carrier Power Of	M	INTEGER (0100)	According to mapping in [22], measurement	YES	reject
All Codes Not			"Transmitted Carrier		
Used For HSTransmission			Power Of All Codes Not Used For HS-		
TIO TIGITISSION			PDSCH, HS-SCCH,		
			E-AGCH, E-RGCH or		
			E-HICHTransmission"		
			and [23], measurement		
			"Transmitted Carrier		
			Power Of All Codes		
			Not Used For HS- PDSCH Or HS-SCCH		
			Transmission"		
>>HS-DSCH					
Required Power >>>HS-DSCH	M	9.2.1.31lba		YES	:t
Required Power	IVI	9.2.1.3110a		169	reject
Value					
>>Transmitted			FDD only		
Carrier Power For Cell Portion					
>>>Transmitted	М	INTEGER	Mapping identical to	YES	reject
Carrier Power For		(0100)	the one for		
Cell Portion			Transmitted Carrier Power measurement		
			in [22]		
>>Received Total			FDD only		
Wide Band Power For Cell Portion					
>>>Received	M	INTEGER	Mapping identical to	YES	reject
Total Wide Band		(0621)	the one for Received		,,,,,,
Power For Cell			Total Wide Band		
Portion			Power measurement in [22]		
>>Transmitted			FDD only		
Carrier Power Of All					
Codes Not Used For HS-PDSCH,					
HS-SCCH, E-					
AGCH, E-RGCH or					
E-HICH Transmission For					
Cell Portion					
>>>Transmitted	М	INTEGER	Mapping identical to	YES	reject
Carrier Power Of All Codes Not		(0100)	the one for Transmitted Carrier		
Used For HS-			Power Of All Codes		
PDSCH, HS-			Not Used For HS-		
SCCH, E-AGCH,			PDSCH, HS-SCCH,		
E-RGCH or E- HICH			E-AGCH, E-RGCH or E-HICH Transmission		
Transmission			measurement in [22]		
Value For Cell			'		
Portion			1 20Mono TDD Only		
>>UpPCH interference			1.28Mcps TDD Only		
>>>UpPCH	М	INTEGER	According to mapping	YES	reject

interference Value		(0127,)	in [23]		
>>DL Transmission		\	FDD Only		
Branch Load			- ")		
>>>DL	M	INTEGER	According to mapping	YES	reject
Transmission		(0101,)	in [22]		
Branch Load					
Value					
>>HS-DSCH			FDD only		
Required Power					
For Cell Portion	N 4	HS-DSCH		VEC	mata 1
>>>HS-DSCH	M			YES	reject
Required Power		Required			
Value For Cell Portion		Power Value			
>>E-DCH Non-		9.2.1.31lba	FDD only		
serving Relative			FDD offig		
Grant Down					
Commands					
>>>E-DCH Non-	M	INTEGER	Down Commands per	YES	reject
serving Relative	101	(0100,)	second	120	reject
Grant Down		(3100,)	3300114		
Commands Value					
>>Rx Timing			Applicable to		
Deviation 768			7.68Mcps TDD Only		
>>>Rx Timing	M	INTEGER	According to mapping	YES	reject
Deviation 768		(065535)	in [23]	0	. 0,000
>>Rx Timing		(5.1.2000)	Applicable to		
Deviation 384			3.84Mcps TDD Only		
Extended					
>>>Rx Timing	M	INTEGER	According to mapping	YES	reject
Deviation 384		(032767)	in [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		
			[22].		
>>Received			FDD only		
Scheduled E-					
DCH Power					
Share		WITE OF S	A 11		
>>>RSEPS value	M	INTEGER	According to mapping	YES	reject
		(0151)	in [22]		
>>Received			FDD only		
Scheduled E-					
DCH Power					
Share for Cell					
Portion	NA.	INTEGER	A coording to recention	VEC	roit
>>>RSEPS value	M	INTEGER	According to mapping	YES	reject
>> Additional LIC		(0151)	in [22]		
>>Additional HS-			Applicable to		
SICH Reception  Quality			1.28Mcps TDD Only		
>>>HS-SICH	M	INTEGER	According to manning	YES	roinat
	IVI	(020)	According to mapping	150	reject
Reception Quality LCR		(020)	in [23] used when the		
LOR			Measurement		
			Threshold Value for		
			HS-SICH Reception		
			Quality are more than		
			20, Measurement		
			Threshold Value = 20		
			+ IE Value		
>>UTRAN GANSS		+	· IL Value		
	i l	1	1		
Timing Of Cell					

>>>Tutran-ganss	M	9.2.1.99	YES	reject	
Measurement					
Threshold					
Information					

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
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&gt;</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	O		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	M	1		
Procedure Code  Procedure Code		1	INTEGER (0255)	"0" = Audit "1" = Audit Required "2" = Block Resource "3" = Cell Deletion "4" = Cell Reconfiguration "5" = Cell Setup "6" = Common Measurement Failure "7" = Common Measurement Report "9" = Common Measurement Termination "10" = Common Measurement Termination "10" = Common Transport Channel Delete "11" = Common Transport Channel Delete "11" = Common Transport Channel Setup "13" = Reset "14" = Compressed Mode Command "16" = Dedicated Measurement Failure "17" = Dedicated Measurement Failure "17" = Dedicated Measurement Termination "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 "27" = Radio Link Failure "26" = Radio Link Restoration "27" = Radio Link Setup "28" = Resource Status Indication "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 "36" = Error Indication (For Common Procedures) "37" = Physical Shared Channel Reconfiguration "40" = Information Exchange Failure "41" = Information Exchange Termination "42" = Information Exchange Failure "41" = Information Exchange Termination "44" = Cell Synchronisation Adjustment "45" = Cell Synchronisation Reconfiguration "46" = Cell Synchronisation Reporting "48" = Cell Synchronisation Failure "50" = Bearer Rearrangement "51" = Radio Link Activation
			ENHANCE ATTENT	'52' = Radio Link Parameter Update "53" = MBMS Notification Update
>Ddmode	М		ENUMERATED ( TDD, FDD, Common,	Common = common to FDD and TDD.
	1		)	

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 [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	Semantics Description
			Reference	
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. [18].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
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. [10] and [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. [10] and [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	M		9.2.1.65	Corresponds to Nd [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-ld	M		9.2.1.65B	
UARFCN	M		9.2.1.65	Corresponds to Nt [15]
Cell Parameter ID	M		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	Semantics Description
			Reference	
UC-Id	M		9.2.1.65B	
UARFCN	M		9.2.1.65	Corresponds to Nt [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 [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 Context ID			INTEGER (02^20-1)	"2^20-1" is a reserved value 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.

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 [8] or [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			INOLL			
>>Report Periodicity	M		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		1	00/12			
>>Measurement Increase/Decrease Threshold	M		9.2.1.43		_	
>>Measurement Change Time	М		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	M		9.2.1.43		_	
>>Measurement Change Time	М		9.2.1.40B	The time the measurement entity shall fall (in ms), in order to trigger a measurement report.	-	
>Event E	1					
>>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.	-	
>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				See Note 1		
Characteristics						
>>On Modification						
>>>On		1			YES	reject
Modification						,
>>>Measurem	M		9.2.1.44		-	
ent Threshold						

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 Scale	M			
>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	2000	_	- Criticality
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		01			YES	ignore
Data	_					
>GANSS	0		9.2.1.91		_	
Ionospheric						
Model			0.04.05			
>GANSS RX Pos	0		9.2.1.95		-	
GANSS Generic		0 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Data		NoGAN SS>				
>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						
>GANSS UTC	0		9.2.1.97		_	
Model			0.04.00			
>GANSS	0		9.2.1.89		_	
Almanac	0		0.04.04			
>GANSS Real	U		9.2.1.94		_	
Time Integrity			0.04.400			
>GANSS Data Bit	0		9.2.1.103		_	
Assistance	1		1			

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 Availability Indicator	М			
>Information Available				
>>Requested Data Value	М		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 [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			ENUMERATED (	
Indicator			RTWP* for Cell	
			Portion Reporting	
			Required)	

#### 9.2.1.53A SFN

System Frame Number of the cell, see ref. [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 [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	M		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 &gt;</maxno 		
>UC-ld	M		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&gt;</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	М		INTEGER (0614399)	According to mapping in [22].
>TDD				1.28 Mcps and 3.84 Mcps only
>>SFN-SFN	M		INTEGER (040961)	According to mapping in [23].
>TDD 7.68 Mcps				
>>SFN-SFN	M		INTEGER (081923)	According to mapping in [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&gt;</maxno 			_	
>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 [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. [10] and [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 [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&gt;</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 <sub>C</sub>	М		INTEGER (015)	For UL DPCCH or control part of PRACH; mapping in accordance to [9]
>>>>>Gain Factor β <sub>D</sub>	M		INTEGER (015)	For UL DPDCH or data part of PRACH: mapping in accordance to [9]
>>>>TDD				
>>>>Gain Factor β	М		iNTEGER (015)	For UL DPCH in TDD; mapping in accordance to [20].
>>>>Reference TFC	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 [35] at the Node B side.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE TNL QoS type	М			
>DS Field				
>>DS Field	M		BIT STRING (8)	DS Field as defined in [35]. Typically used when the Node B and its CRNC are in the same DS domain as defined in [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 Reference	Semantics Description
Dynamic Transport Format Information		1 <maxtf count&gt;</maxtf 		The first instance of the 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 Interval Information	C- TTIdynami c	1 <maxtt Icount&gt;</maxtt 		
>>>>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80,)	Unit: ms
Semi-Static Transport Format Information		1		
>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80, dynamic,,5)	Unit: ms; Value "dynamic' for TDD only; Value "5' for LCR TDD only; For FDD DCH, the value "80" is applicable only when <i>DL</i> <i>DPCH Slot Format</i> IE indicates a slot format with SF=512.
>Type Of Channel Coding	М		ENUMERATED ( No codingTDD, Convolutional, Turbo,)	[FDD - The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C-Coding		ENUMERATED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC Size	М		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М			
>>TDD				
>>>2 <sup>nd</sup> Interleaving Mode	М		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".
TTldynamic	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 include				
	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	M		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 [2][31], this IE contains the address to be used for Transport Network Control Plane signalling to establish the transport bearer according to [2][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. [2][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<sub>UTRAN-GPS</sub> Measurement Value Information

The T<sub>UTRAN-GPS</sub> *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 [22]. Significant values range from 0 to 37158911999999.
>MS	М		INTEGER (016383)	Most Significant Part
>LS	М		INTEGER (04294967295)	Least Significant Part
T <sub>UTRAN-GPS</sub> Quality	0		INTEGER (0255)	Indicates the standard deviation (std) of the T <sub>UTRAN-GPS</sub> measurements in 1/16 chip. $T_{UTRAN-GPS}$ Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN-GPS</sub> Value, where x is the reported T <sub>UTRAN-GPS</sub> Value and $\mu = E[x]$ is the expectation value of x.
T <sub>UTRAN-GPS</sub> Drift Rate	M		INTEGER (-50+50)	Indicates the T <sub>UTRAN-GPS</sub> 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.
T <sub>UTRAN-GPS</sub> Drift Rate Quality	0		INTEGER (050)	Indicates the standard deviation (std) of the T <sub>UTRAN-GPS</sub> drift rate measurements in 1/256 chip per second.  T <sub>UTRAN-GPS</sub> Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN-GPS</sub> Drift Rate, where x is the reported T <sub>UTRAN-GPS</sub> Drift Rate and $\mu = E[x]$ is the expectation value of x.

# 9.2.1.64B T<sub>UTRAN-GPS</sub> Measurement Threshold Information

The  $T_{UTRAN-GPS}$  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
Tutran-gps Change Limit	0		INTEGER (1256)	Change of T <sub>UTRAN-GPS</sub> value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted T <sub>UTRAN-GPS</sub> Deviation Limit	0		INTEGER (1256)	Deviation of the predicated T <sub>UTRAN-GPS</sub> from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

# 9.2.1.64C T<sub>UTRAN-GPS</sub> 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 <sub>UTRAN-GPS</sub> Accuracy Class			ENUMERATED (	More information about T <sub>UTRAN</sub> -
			Accuracy Class A,	GPS Measurement Accuracy
			Accuracy Class B,	Class is included in [22] and
			Accuracy Class C,	[23].
			)	

#### 9.2.1.65 UARFCN

Designates the carrier frequency.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER (016383,)	As defined in subclause 5.4.3 in [14] and [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.

ence
-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 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 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	Semantics Description
			Reference	
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.

#### 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
E-DCH Logical Channel Information		1 <maxno oflogicalch annels&gt;</maxno 		
>Logical Channel ID	M		9.2.1.80	
>Scheduling Priority Indicator	M		9.2.1.53H	
>Scheduling Information	M		9.2.1.84	
>MAC-es Guaranteed Bit Rate	0		9.2.1.82	
>E-DCH DDI Value	М		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
>MAC-d PDU Size List		1 <maxno ofMACdP DUSize&gt;</maxno 		
>>MAC-d PDU Size	M		9.2.1.38A	

Range Bound	Explanation		
Maxnooflogicalchannels	Maximum number of logical channels		
maxnoofMACdPDUSize	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
E-DCH Logical Channel Information		1 <maxno oflogicalch annels&gt;</maxno 		
>Logical Channel ID	M		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
>MAC-d PDU Size List		0 <maxno ofMACdP DUSize&gt;</maxno 		
>>MAC-d PDU Size	М		9.2.1.38A	

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 &gt;</maxno 		
>E-DCH MAC-d Flow ID	M		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

#### 9.2.1.75 E-RNTI

The E-RNTI is needed for the UE (or UE group) specific CRC in E-AGCH, see ref. [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 [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,)	

#### 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	Semantics description
			reference	
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 reference	Semantics description
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 Reset is performed in UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-e Reset Indicator			ENUMERATED	
			(MAC-e Reset)	

## 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 Reference	Semantics Description
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
DGANSS Reference Time	M		INTEGER(0. .3570 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&gt;</maxsgnt 		
>GANSS Signal ID >Status/Health	O M		9.2.1.106  ENUMERAT ED(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)	
>DGANSS Signal Information	C- Status/Hea Ith	1 to <maxgan SSSat&gt;</maxgan 	,	If the Cipher information is included these fields are ciphered.
>>Sat ID	М		INTEGER(063)	Identifies the satellite and is equal to (SV ID No - 1)
>>IOD	M		BIT STRING(10)	
>>UDRE	M		ENUMERAT ED(UDRE \le 1.0 m, 1.0m < UDRE \le 4.0m, 4.0m < UDRE \le 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	M		INTEGER(- 20472047)	Scaling factor 0.32 meters
>>RRC	М		INTEGER(- 127127)	Scaling factor 0.032 meters/sec

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	Presence	Range	IE Type and Reference	Semantics description
Week Number	М		INTEGER(0. .255)	Almanac reference week , number of weeks since the beginning of GANSS specific system time (mod 256)
CHOICE Almanac Model	M			
>Keplerian Parameters				47
>>T <sub>oa</sub>	M		INTEGER(0255)	Scaling factor 2 <sup>12</sup> s Reference time of almanac within week in GANSS TOD time base
>>IOD <sub>a</sub>	М		INTEGER(03)	Issue-Of –Data, common to all satellites
>>Satellite Information KP		1 to <maxgan SSSatAlm anac&gt;</maxgan 		Almanacs are in the order of the SV IDs, the smallest ID first.
>>>Sat ID	М		INTEGER(063)	Identifies the satellite and is equal to (SV ID No - 1)
>>>e	М		BIT STRING(11)	Eccentricity, dimensionless [39]
>>>δi	М		BIT STRING(11)	semi-circles [39]
>>>OMEGADOT	М		BIT STRING(11)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [39]
>>>SV Health KP	М		BIT STRING(4)	dimensionless
>>>delta A <sup>1/2</sup>	М		BIT STRING(17)	Semi-Major Axis delta (meters) <sup>1/2</sup> [39]
>>>OMEGA <sub>0</sub>	М		BIT STRING(16)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [39]
>>>M <sub>0</sub>	М		BIT STRING(16)	Mean Anomaly at Reference Time (semi-circles) [39]
>>>ω	М		BIT STRING(16)	Argument of Perigee (semi- circles) [39]
>>>af <sub>0</sub>	М		BIT STRING(14)	Seconds [39]
>>>af <sub>1</sub>	М		BIT STRING(11)	sec/sec [39]

Range Bound	Explanation
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&gt;</maxgan 		There may be more than one clock model included if defined in SIS ICD (e.g. two for Galileo)
>t <sub>oc</sub> _LSB	М		INTEGER(0. .511)	Least significant bits of Time- of-Clock in seconds
>a <sub>i2</sub>	М		BIT STRING(12)	defined in [39]
>a <sub>i1</sub>	М		BIT STRING(18)	defined in [39]
>a <sub>i0</sub>	М		BIT STRING(28)	defined in [39]
>T <sub>GD</sub>	0		BIT STRING(10)	defined in [39]
>Model ID	0		INTEGER(01,)	Coded as defined in [18].

Range bound	Explanation
maxGANSSClockMod	Maximum number of satellite clock models for which data is included
	in the IE.

# 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
$a_{i0}$	M		BIT STRING(12)	This parameter is used as defined in [39]
a <sub>i1</sub>	M		BIT STRING(12)	This parameter is used as defined in [39]
a <sub>i2</sub>	M		BIT STRING(12)	This parameter is used as defined in [39]
GANSS Ionosphere Regional Storm Flags		01		
>Storm Flag 1	M		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 2	M		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 3	M		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 4	М		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 5	М		BOOLEAN	This parameter is used as defined in [39]

# 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	Semantics description
			Reference	

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE Orbit Model	M			
>Keplerian Parameters				
>>toe_LSB	M		INTEGER(0. .511)	Least significant bits of Time- of-Ephemeris in seconds, scale factor 60
>>0	M		BIT STRING(32)	Argument of Perigee (semicircles) [39]
>>∆n	M		BIT STRING(16)	Mean Motion Difference From Computed Value (semi- circles/sec) [39]
>>M <sub>0</sub>	М		BIT STRING(32)	Mean Anomaly at Reference Time (semi-circles) [39]
>>OMEGAdot	M		BIT STRING(24)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [39]
>>e_LSB	М		INTEGER(033554431)	Least significant bits of eccentricity, scale factor 2 <sup>-33</sup>
>>ldot	М		BIT STRING(14)	Rate of Inclination Angle (semi-circles/sec) [39]
>>sqrtA_LSB	М		INTEGER(0. .67108863)	Least significant bits of Semi- Major Axis in (meters) <sup>1/2</sup> , scale factor 2 <sup>-19</sup>
>>i <sub>0</sub>	М		BIT STRING(32)	Inclination Angle at Reference Time (semi-circles) [39]
>>OMEGA <sub>0</sub>	M		BIT STRING(32)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [39]
>>C <sub>rs</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term to the Orbit Radius (meters) [39]
>>C <sub>is</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Angle Of Inclination (radians) [39]
>>C <sub>us</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Argument Of Latitude (radians) [39]
>>C <sub>rc</sub>	M		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term to the Orbit Radius (meters) [39]
>>C <sub>ic</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Angle Of Inclination (radians) [39]
>>C <sub>uc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Argument Of Latitude (radians) [39]

# 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.	Identifies the satellite and is
			.63)	equal to (SV ID No - 1).
>Bad GANSS Signal ID	0		BIT	Coded as defined in [18].
_			STRING(8)	

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	M		ENUMERATED ( North, South)	
Degrees of Latitude	M		INTEGER (02 <sup>31</sup> -1)	The IE value (N) is derived by this formula: N≤2 <sup>31</sup> X /90 < N+1 X being the latitude in degree (0° 90°)
Degrees of Longitude	M		INTEGER (-2 <sup>31</sup> 2 <sup>31</sup> -1)	The IE value (N) is derived by this formula: N≤2 <sup>32</sup> X /360 < N+1 X being the longitude in degree (-180°+180°)
Direction of Altitude	M		ENUMERATED ( Height, Depth)	
Altitude	М		INTEGER (02 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is $N \le a$ <n+1, <math="" except="" for="">N=2^{15}-1 for which the range is extended to include all greater values of (a).</n+1,>

## 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	M		INTEGER(0. . 37799)	GANSS reference time (modulo 1 week) in seconds. The scale factor is 2 <sup>4</sup>
T <sub>A0</sub>	М		INTEGER(- 2147483648. .2147483647	Seconds, scale factor 2 <sup>-35</sup>
T <sub>A1</sub>	0		INTEGER(- 838860883 88607)	sec/sec, scale factor 2 <sup>-51</sup>
T <sub>A2</sub>	0		INTEGER(- 6463)	sec/sec <sup>2</sup> , scale factor 2 <sup>-68</sup>
GNSS_TO_ID	M		ENUMERAT ED(GPS,)	
Week Number	0		INTEGER(08191)	Reference week of GANSS Time Model

#### 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 <sub>1</sub>	М		BIT STRING(24)	sec/sec [39]
A <sub>0</sub>	М		BIT STRING(32)	seconds [39]
t <sub>ot</sub>	М		BIT STRING(8)	seconds [39]
WN <sub>t</sub>	М		BIT STRING(8)	weeks [39]
Δt <sub>LS</sub>	М		BIT STRING(8)	seconds [39]
WN <sub>LSF</sub>	М		BIT STRING(8)	weeks [39]
DN	М		BIT STRING(8)	days [39]
$\Delta t_{LSF}$	M		BIT STRING(8)	seconds [39]

# 9.2.1.98 T<sub>UTRAN-GANSS</sub> 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 Reference	Semantics Description
Tutran-ganss Accuracy Class			ENUMERATED ( Accuracy Class A, Accuracy Class B, Accuracy Class C,)	More information about T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class is included in [22] and [23].

# 9.2.1.99 T<sub>UTRAN-GANSS</sub> 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	Semantics Description
			Reference	
T <sub>UTRAN-GANSS</sub> Change Limit	0		INTEGER (1256)	Change of T <sub>UTRAN-GANSS</sub> value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted Tutran-ganss Deviation Limit	0		INTEGER (1256)	Deviation of the predicated T <sub>UTRAN-GANSS</sub> from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

# 9.2.1.100 T<sub>UTRAN-GANSS</sub> Measurement Value Information

The  $T_{UTRAN-GANSS}$  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
Tutran-ganss	M			Indicates the UTRAN GANSS Timing of Cell Frames for UE Positioning. According to mapping in [23]; significant values range from 0 to 37158911999999.
>MS	M		INTEGER(016383)	Most Significant Part
>LS	M		INTEGER(04294967295	Least Significant Part
T <sub>UTRAN-GANSS</sub> Quality	0		INTEGER(0. .255)	Indicates the standard deviation (std) of the T <sub>UTRAN- GANSS</sub> measurements in 1/16 chip. T <sub>UTRAN- GANSS</sub> Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN- GANSS</sub> Value, where x is the reported T <sub>UTRAN-GANSS</sub> Value and $\mu = E[x]$ is the expectation value of x.
T <sub>UTRAN-GANSS</sub> Drift Rate	М		INTEGER(- 5050)	Indicates the T <sub>UTRAN- GANSS</sub> 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.
Tutran-ganss Drift Rate Quality	0		INTEGER(050)	Indicates the standard deviation (std) of the T <sub>UTRAN- GANSS</sub> drift rate measurements in 1/256 chip per second. T <sub>UTRAN- GANSS</sub> Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN- GANSS</sub> Drift Rate, where x is the reported T <sub>UTRAN- GANSS</sub> Drift Rate and $\mu$ = $E[x]$ is the expectation value of x.

# 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 [33] is partitioned equally between all HARQ processes according to the rules in [18].	_	
>Explicit				• •		
>>HARQ Memory Partitioning Infomation		1 <maxno ofHARQpr ocesses&gt;</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	M		9.2.1.49D	See [18]	1	
>>HARQ Memory Partitioning Information Extension For MIMO		0, 4, 6 or 8		FDD only The 1 <sup>st</sup> instance corresponds to HARQ process with identifier set to 'maxnoofHARQpr ocesses', the 2 <sup>nd</sup> instance to HARQ process with identifier set to 'maxnoofHARQpr ocesses+1', and so on.	GLOBAL	ignore
>>>Process Memory Size	M		9.2.1.49D	See [18]	_	

Range Bound	Explanation
MaxnoofHARQprocesses	Maximum number of HARQ processes for one UE [FDD - 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	М		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)	Identifies the satellite and is equal to (SV ID No - 1)
>Data Bit Assistance		1 <maxsgnty< td=""><td></td><td></td></maxsgnty<>		
Sgn List		pe>		
>>GANSS Signal ID	M		9.2.1.106	
>>Data Bits	M		BIT STRING(11024)	Raw data bits as transmitted from a specific satellite at the time indicated by GANSS_TOD.

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 [18]. All values are reserved in this version of the protocol.

# 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
T <sub>oe/c</sub> MSB	C-Orbit model		INTEGER(031)	The most significant bits of parameters Time-of- Ephemeris and Time-of-Clock in seconds, scale factor 21600
e MSB	C-Orbit model		INTEGER(0127)	The most significant bits of eccentricity, scale factor 2 <sup>-8</sup>
SqrtA MSB	C-Orbit model		INTEGER(063)	The most significant bits of Semi-Major Axis in (meters) <sup>1/2</sup> , scale factor 2 <sup>7</sup>
Satellite Information		1 to <maxgan SSSat&gt;</maxgan 		
>Sat ID	М		INTEGER(063)	Identifies the satellite and is equal to (SV ID No - 1).
>SV Health	М		BIT STRING(5)	Coded as defined in [39]
>IOD	М		BIT STRING(10)	
>GANSS Clock Model	М		9.2.1.90	
>GANSS Orbit Model	М		9.2.1.93	

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.

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.

# 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 [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	М		INTEGER(0 86399)	GANSS Time of Day in seconds

#### 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	M		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	М		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.

# 9.2.2 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. [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. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CM Configuration Change CFN	М		CFN 9.2.1.7	
Transmission Gap Pattern Sequence Status		0 <maxt GPS&gt;</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	М		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 Reference	Semantics Description
AICH Transmission Timing			ENUMERATED (0, 1)	See parameter AICH_Transmission_Timing in ref. [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 ofBestCell Portions&gt;</maxno 		
>Cell Portion ID	M		9.2.2.1Ca	
>SIR Value	М		INTEGER (063)	According to mapping in [22] and [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 [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	Semantics Description
			Reference	
Closed Loop Timing			ENUMERATED (	According to ref. [10]
Adjustment Mode			Offset1,	subclause 7.1:
			Offset2,	"Offset1" = slot(j+1)mod15
			)	"Offset2" = slot(j+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. [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&gt;</maxno 			_	
>Payload CRC Presence Indicator	M		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&gt;</maxno 			_	
>>DCH ID	М		9.2.1.20		_	
>>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	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&gt;</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	М		9.2.1.62A		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</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 Reference	Semantics Description
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.

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#### 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,	The <i>Diversity Mode</i> IE shall never be set to "Not Used". If received it shall be rejected.
			Not Used,)	

#### 9.2.2.10 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to ref. [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 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL_power_averaging_window			INTEGER (160)	Unit: inner loop power
_size				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 Power Adjustment Type 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 Reference	Semantics Description
DL Power Balancing Updated			ENUMERATED (DL	
Indicator			Power Balancing	
			Updated)	ļ

#### 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 [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.	F	
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		1	
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

# 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	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Specific Update Information		0 <maxno ofEDCHM ACdFlows</maxno 		
>E-DCH MAC-d Flow ID	М		9.2.1.74	
>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	Ö		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	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows.

# 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&gt;</max 			_	
>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 Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		_	
>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		1	
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)	indicates E-DCH serving grant index as defined in [32]; index 38 means zero grant	ŀ	
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	ŀ	
E-RGCH Release Indicator	0		9.2.2.13lc			
Default Serving Grant in DTX Cycle 2	0		INTEGER (037,38)	Serving Grant value to be used in DTX-Cycle-2. (037) indicates E- DCH serving grant index as defined in [32]; index 38 means zero grant	YES	ignore

Range bound	Explanation
maxnoofSigSeqE-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 &gt;</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		_	
>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	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	_	
>>>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		YES	reject
>>E-DCH Scheduled Transmission Grant			NULL			
>Bundling Mode Indicator	0		9.2.2.1Bb		_	
>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&gt;</maxno 			_	
>>Logical Channel ID	М		9.2.1.80		_	
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 Reference Power	0		9.2.2.13Y		_	

Offset				
MAC-e Reset Indicator	0	9.2.1.83	_	
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

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.
maxnooflogicalchannels	Maximum number of logical channels

# 9.2.2.13Dh E-DCH Transport Format Combination Set Information (E-TFCS Information)

Whereas the related Transport Block sizes are standardised in [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  $\beta_{ec}$  and  $\beta_{ed}$  defined in [10].

Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
М		INTEGER	Indicates	_	Simounty
		(0, 2)	standardised E-TFCS		
			Transport Block Size		
			Table shall		
			related tables		
		INTEGER	in [32].		
		(0127)	concept of	_	
			Minimum Set of TFCs" see		
	1 <maxn< td=""><td></td><td>[32] and [18].</td><td>_</td><td></td></maxn<>		[32] and [18].	_	
	oofRefET FCIs>				
M		INTEGER (0127)		_	
M		9.2.2.13Dp	If the Extended Reference E- TFCI Power Offset IE is present, this IE shall be	-	
0		9.2.2.13Dq	Ignorea	YES	reject
0		0 2 2 88B		VES	reject
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 $\beta_{ed}$ according to	YES	reject
	M	M  1 <maxn fcis="" oofrefet=""> M  M  O</maxn>	Name	Name	Name

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  $\beta_{ec}$  as defined in [10], whereas  $\beta_{ec}$  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. [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 [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. [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 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 MAC-e PDU for Non- scheduled Transmission			INTEGER (119982)	

#### 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	Semantics Description
			Reference	
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 [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 [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			INTEGER (029)	According to mapping in ref.
Offset				[9] subclause 4.2.1.3

# 9.2.2.13Dq 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 Reference	Semantics Description
Extended Reference E-TFCI			INTEGER	According to mapping in ref.
Power Offset			(3031,)	[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 PDU for Non-scheduled Transmission to be sent to the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Maximum Number of Bits per MAC-e PDU for Non-			INTEGER (1998322978,)	
scheduled Transmission			(10000010,)	

#### 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	М			
>replace				
>>E-RGCH/E-HICH Code		1 <maxno ofERGCH EHICHs&gt;</maxno 		
>>>Code Number	M		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	М			
>replace				
>>E-AGCH Code		1 <maxno ofEAGCHs &gt;</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

#### 9.2.2.13lf 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 (0255,)	Unit: dB 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			INTEGER	Refers to an index in the "SG-
Threshold			(037)	Table" (see [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 [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&gt;</maxno 		For each SF, cost of its allocation, in decending order: the first instance corresponds to multicode configuration 2*SF2+2*SF4, the second to 2*SF2, the third to 2*SF4, the fourth to singlecode configuration SF = 4, the fifth to SF = 8, the sixth to SF16, the seventh to SF32 and the eight to SF64 and so on.
>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 &gt;</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	М		9.2.1.49		_	
>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		_	
>CHOICE E-DCH Grant Type >>E-DCH Non-Scheduled	М				_	
Transmission Grant  >>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission  >>>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant	M O		9.2.2.13Dm  HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	If the Extended Maximum Number of Bits per MAC- e PDU for Non- scheduled Transmission IE is present, this IE shall be ignored If this IE is not included, transmission in all HARQ processes is	_	
>>>Extended Maximum Number of Bits per MAC- e PDU for Non-scheduled Transmission	0		9.2.2.13Dr	allowed.	YES	reject
>>E-DCH Scheduled Transmission Grant			NULL			
>Bundling Mode Indicator	0		9.2.2.1Bb		-	
>E-DCH Logical Channel Information	М		9.2.1.71		_	
>Transport Bearer Not Requested Indicator	0		9.2.2.4G		YES	ignore

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 (05742,, 574311498)	Bitrate on transport block level. Unit is kbits per second.

# 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	Semantics Description
			Reference	
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			INTEGER (06)	According to mapping in ref.
Offset				[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	Semantics Description
			Reference	
FDD DL Channelisation Code			INTEGER (0511)	According to the mapping in
Number				[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	M		9.2.2.13	
>FDD DL Channelisation Code Number	M		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. [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	Unit: dB
			(0.5, 1, 1.5, 2,)	

# 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 [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode			ENUMERATED ( mode0, mode1)	"mode0" means HARQ Preamble Mode =0 "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 Reference	Semantics Description
HARQ Preamble Mode Activation Indicator			ENUMERATED(HA 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 Reference	Semantics description
HARQ Info for E-DCH			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 [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 [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 [10]
IP Length	M		ENUMERATED (5, 10)	See [10]
Seed	M		INTEGER (063)	See [10]
Burst Mode Parameters	0		9.2.1.5A	
IP Offset	M		INTEGER (09)	See [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 [9].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
HS-DSCH Configured Indicator			ENUMERATED (HS- DSCH configured, HS-DSCH not configured)	Indicator of the HS-DSCH forconfiguration of the E- DPDCHs IQ branch mapping

## 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.

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	M		9.2.1.31la		_	
MAC-hs Reordering Buffer Size for RLC-UM	М		9.2.1.38Ab		_	
CQI Feedback Cycle k	M		9.2.2.21B		_	
CQI Repetition Factor	C- CQICyclek		9.2.2.4Cb		_	
ACK-NACK Repetition Factor	M		9.2.2.a		_	
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	0		9.2.2.181		_	
Measurement Power Offset	0		9.2.2.21C		_	
HARQ Preamble Mode	0		9.2.2.18a		YES	ignore
MIMO Activation Indicator	0		9.2.2.71		YES	reject
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
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.74A		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.

# 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 Specific Information		0 <maxno ofMACdFl</maxno 			_	
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 Allocation	0		9.2.1.31Ha		_	
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes&gt;</maxno 			_	
>Code Number	М		INTEGER (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

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 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

# 9.2.2.18Eb 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	M		RL ID		_	
			9.2.1.53			
HS-DSCH Information	0		HS-DSCH		_	
			FDD			
			Information			
			9.2.2.18D			
HS-DSCH-RNTI	M		9.2.1.31J		_	
Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.68		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		_	

# 9.2.2.18Ed 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&gt;</maxno 		
>>>RL ID	M		9.2.1.53	
>>>E-DCH FDD DL	М		9.2.2.13Dc	
Control Channel				
Information				
>Unsuccessful				
>>Cause	M		9.2.1.6	

Range bound	Explanation	
maxnoofRLs	Maximum number of RLs for one UE	

## 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	Semantics Description
			Reference	
Number Of HS-PDSCH Codes	M		INTEGER	
			(0maxHS-PDSCHC	
			odeNrComp-1)	
Start Code Number	C-		INTEGER	
	NumCode		(1maxHS-PDSCHC	
	S		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&gt;</maxno 		
>>>Code Number	M		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	Semantics Description
			Reference	
HS-SCCH Power Offset			INTEGER (0255)	Unit: dB
				Range: -32 +31.75 dB
				Step: 0.25 dB

# 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 Reference	Semantics Description
Initial DL DPCH Timing Adjustment Allowed			ENUMERATED ( 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 [8]. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Set of E-DPDCHs			ENUMERATED (vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,, v2xM2plus2xM4)	

#### 9.2.2.20D Maximum Number Of Retransmissions For E-DCH

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.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Maximum Target Received Total Wide Band Power			INTEGER (0621)	The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in [22].

# 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 Reference	Semantics Description
CQI Feedback Cycle k			ENUMERATED (0, 2, 4, 8, 10, 20, 40, 80, 160,, 16, 32, 64)	Unit ms

#### 9.2.2.21C Measurement Power Offset

The Measurement Power Offset IE is used as described in ref [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,)	

## 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 Reference	Semantics Description
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. [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	Number of PIs per frame
			(18, 36, 72, 144,)	

# 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 [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 Reference	Semantics Description
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 Reference	Semantics Description
Primary CPICH Power			INTEGER (-100500)	Value = Primary CPICH 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	Semantics Description
			Reference	
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 [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. [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 &gt;</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. [4].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Received Total Wide Band			INTEGER (0621)	According to mapping in [22].
Power				

#### 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 [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	Semantics Description
			Reference	
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. [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	M		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 Reference	Semantics Description
SSDT Support Indicator			ENUMERATED ( Not Used, SSDT Not Supported)	The SSDT Support Indicator IE shall never be set to 'Not Used'. If received it shall be 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	Semantics Description
			Reference	
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 [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	M			
>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	Unit: chip
			(0, 1,,9)	Range: 02304 chips
				Step: 256 chips
				See ref. [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	Semantics Description
			Reference	
TFCI Signalling Option	M		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. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Information		1 <maxt GPS&gt;</maxt 		
>TGPS Identifier	M		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	M		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	М		INTEGER (1144,)	The duration of transmission gap pattern 1 in frames.
>Not-to-be-used-1	0		INTEGER (1144,)	This IE shall never be included in the IE group. If received it shall be ignored.
>UL/DL Mode	M		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 <i>Downlink Compressed Mode Method</i> 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	M		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
	l "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 [9].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Transmission Gap Pattern			ENUMERATED (	Indicates whether the
Sequence Code Information			Code Change,	alternative scrambling code is
			No Code Change)	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. [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 <sup>24</sup> -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.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
UL DPDCH Indicator For E-			ENUMERATED (	
DCH Operation			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 Reference	Semantics Description
Continuous Packet Connectivity HS-SCCH less Capability			ENUMERATED (Continuous Packet 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. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE DTX DRX Offset	М		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	M			

Length				
>>2ms				
>>>UE DTX Cycle 1	М		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>UE DTX Cycle 2	М		ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>MAC DTX Cycle	М		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>10ms				
>>>UE DTX Cycle 1	М		ENUMERATED (1, 5, 10, 20)	Units of subframes
>>>UE DTX Cycle 2	М		ENUMERATED (5, 10, 20, 40, 80, 160)	Units of subframes
>>>MAC DTX Cycle	М		ENUMERATED (5, 10, 20)	Units of subframes
>Inactivity Threshold for UE DTX Cycle 2	M		ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DTX Long Preamble	М		ENÚMERATED (2,4,15)	Units of slots
>MAC Inactivity Threshold	М		ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>CQI DTX Timer	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of subframes
>UE DPCCH burst1	М		ENUMERATED (1, 2, 5)	Units of subframes
>UE DPCCH burst2	М		ENUMERATED (1, 2, 5)	Units of subframes
DRX Information		01	. ,	
>UE DRX Cycle	М		ENUMERATED (4, 5, 8, 10, 16, 20)	Units of subframes
>Inactivity Threshold for UE DRX Cycle	M		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>Inactivity Threshold for UE Grant Monitoring	M		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DRX Grant Monitoring	М		BOOLEAN	True: DRX Grant Monitoring shall be applied. False: DRX Grant Monitoring shall not 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	0			

Length			
>>>2ms			
>>>UE DTX Cycle 1	М	ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>UE DTX Cycle 2	M	ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>MAC DTX Cycle	M	ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>10ms			
>>>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 UE DTX Cycle 2	0	ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>>UE DTX Long Preamble	0	ENUMERATED (2,4,15)	Units of slots
>>MAC Inactivity Threshold	0	ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>>CQI DTX Timer	0	ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of Subframes
>>UE DPCCH burst1	0	ENUMERATED (1, 2, 5)	Units of Subframes
>>UE DPCCH burst2	0	ENUMERATED (1, 2, 5) NULL	Units of Subframes
>Deactivate		NULL	
CHOICE DRX Information To Modify	0		
>Modify	_		
>>UE DRX Cycle	0	ENUMERATED (4, 5, 8, 10, 16, 20)	Units of subframes
>>Inactivity Threshold for UE DRX Cycle	0	ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>>Inactivity Threshold for UE Grant Monitoring	0	ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>>UE DRX Grant Monitoring	0	BOOLEAN	True: DRX Grant 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. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Block Size List		1 <maxno ofHS- DSCHTBS sHS- SCCHless &gt;</maxno 		
>Transport Block Size Index	М		INTEGER	

		(1maxnoofHS-DSC HTBSs)	
>HS-PDSCH Second Code Support	М	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. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-PDSCH First Code Index	M		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

# 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	М		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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Capability			ENUMERATED	
			(MIMO Capable,	
			MIMO Non-Capable)	

#### 9.2.2.71 MIMO Activation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Activation Indicator	M		NULL	

## 9.2.2.72 MIMO Mode Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Mode Indicator			ENUMERATED	
			(Activate,	
			Deactivate)	

# 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

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)	

# 9.2.2.74A 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 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	M		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	М		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 &gt;</maxno 		
>>Priority Queue Information for Enhanced FACH	M		Priority Queue Information for Enhanced FACH/PCH 9.2.2.83	

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&gt;</maxno 		
>Paging MAC Flow ID	М		9.2.2.80	
>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 &gt;</maxno 		
>>Priority Queue Information for Enhanced PCH	M		Priority Queue Information for Enhanced FACH/PCH 9.2.2.83	
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 &gt;</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 appendix A of [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	Semantics Description
			Reference	
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes&gt;</maxno 		Channelization codes on HS-SCCH is transmitted for UE not in Cell_DCH
>Code Number	М		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 Flour ID	N 4		0.0.0.70	
>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	0		9.2.1.31Ha	
Allocation				

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&gt;</maxno 		
>Paging MAC Flow ID	M		9.2.2.80	
>Binding ID	0		9.2.1.4	
>Transport Layer Address	0		9.2.1.63	
>HS-PDSCH Code Index	M		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

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)	

#### 9.2.2.81 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	M		9.2.1.13	
>Not shared with PCH				
>>Common Physical Channel ID	М		9.2.1.13	
>>FDD DL Channelisation Code Number	M		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

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)	

# 9.2.2.83 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		9.2.2.99	
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	

#### 9.2.2.84 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 Reference	Semantics Description
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 Reference	Semantics Description
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

This parameter defines the Enhanced FACH capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced FACH Capability			ENUMERATED (Enhanced FACH Capable, Enhanced FACH Non-Capable)	

# 9.2.2.87 Enhanced PCH Capability

This parameter defines the Enhanced PCH capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced PCH Capability			ENUMERATED	
			(Enhanced PCH	
			Capable, Enhanced	
			PCH Non-Capable)	

# 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 Reference	Semantics Description
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	М			
>QPSK			NULL	
>QAM				
>>CPICH Secondary CCPCH Power Offset	M		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 [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	Semantics Description
			Reference	
F-DPCH Slot Format			ENUMERATED (F-	
Capability			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	M		ENUMERATED (v5,	Units of subframes
			v10, v20, v40, v64,	
			v80, v128, v160,)	

# 9.2.2.96 MIMO N/M Ratio

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
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		1 <maxno< td=""><td></td><td></td></maxno<>		
		ofPagingM		
		ACFlow>		
>Paging MAC Flow ID	M		9.2.2.80	

Range Bound	Explanation
maxnoofPagingMACFlow	Maximum number of Paging MAC Flows

#### 9.2.2.99 MAC-ehs Reset Timer

The MAC-ehs Reset Timer IE is used as Reset Timer (Treset) described in ref [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

# 9.2.3 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. [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 Reference	Semantics Description
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. [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot ISCP			INTEGER (091)	According to mapping in ref. [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&gt;</maxno 			_	
>Payload CRC Presence Indicator	M		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&gt;</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&gt;</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&gt;</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	Semantics Description
			Reference	
DL Timeslot Information		1 <maxno< td=""><td></td><td></td></maxno<>		
		ofDLts>		
>Time Slot	M		9.2.3.23	
>Midamble Shift And Burst	M		9.2.3.7	
Туре				
>TFCI Presence	M		9.2.1.57	
>DL Code Information	M		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&gt;</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			INTEGER (04095)	
Period				

# 9.2.3.4K Cell Sync Burst SIR

Indicates the Signal to Interference Ratio of the cell synchronisation burst measurement according definition in [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst SIR			INTEGER (031)	According to mapping in [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 [5] for 3.84Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>>Cell Synch Burst Timing	M		INTEGER	
Value			(01048575,)	
>Steady State Phase				
>>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 [5] for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase			Reference	A coordinate manning in [22]
				According to mapping in [23]
>Initial Phase				
>>Cell Synch Burst Timing	M		INTEGER (0	
Value			524287,)	
>Steady State Phase				
>>Cell Synch Burst Timing	M		INTEGER	
Value			(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	Semantics Description
			Reference	
Cell Sync Burst Timing			INTEGER (0254)	Unit: chip
Threshold				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 &gt;</ma 			_	
>Time Slot LCR	M		9.2.3.24A		_	
>Midamble Shift LCR	M		9.2.3.7A		_	
>TFCI Presence	M		9.2.1.57		_	
>DL Code Information	M		TDD DL Code Information LCR 9.2.3.19C		-	
>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 1.28Mcp		
		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	e Slot ISCP Info LCR				
>Time Slot LCR	M		9.2.3.24A		
>DL Timeslot ISCP	M		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&gt;</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&gt;</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	М		9.2.1.59	For DSCH	_	
>Allocation/Retention Priority	М		9.2.1.1A		_	
>Frame Handling Priority	М		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 (-150+400,)	Unit: dBm 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 <sub>new</sub> =(SFN <sub>old</sub> +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 [21]
IP Start	М		INTEGER (04095)	See [21]
IP Slot	M		INTEGER (014)	See [21]
IP PCCPCH	M		ENUMERATED ( Switch off 1 frame, Switch off 2 frames)	See [21]
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	М		9.2.1.31IA		-	
Flows Information						
UE Capabilities		1			_	
Information			0.04.041			
>HS-DSCH Physical	M		9.2.1.31la		_	
Layer Category			0.0.0.50-	A l'a - la ta	VEO	
>1.28 Mcps TDD	0		9.2.3.5Gc	Applicable to 1.28Mcps TDD only	YES	ignore
Uplink Physical Channel Capability				1.28MCps 1DD only		
>Number of	0		ENUMERATE	Applicable to	YES	rainat
Supported Carriers			D (	1.28Mcps TDD only	150	reject
Supported Carriers			One-one	This IE indicates the		
			carrier, One-	number of carrier that		
			three carrier,	UE can support at the		
			Three-three	same time, where		
			carrier, One-	'One-three carrier'		
			six carrier,	means the number of		
			Three-six	supported carrier is		
			carrier,	one for the uplink, and		
			Six-six carrier,	three for the downlink.		
			)			
MAC-hs Reordering	M		9.2.1.38Ab		_	
Buffer Size for RLC-UM						
TDD ACK NACK	M		9.2.3.18F		_	
Power Offset						
HS-SICH SIR Target	0		UL SIR	Applicable to	YES	ignore
			9.2.1.67A	1.28Mcps TDD only		
HS-SICH TPC step	0		9.2.3.21a	Applicable to	YES	ignore
size				1.28Mcps TDD only		
HS-DSCH MAC-d PDU	0		9.2.1.31ID	If not present,	YES	reject
Size Format				"Indexed MAC-d PDU		
				Size" shall be used.		
TSN-Length	0		9.2.3.51	Applicable for	YES	reject
				1.28Mcps TDD when		
				using multiple		
				frequencies		

# 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	M		9.2.1.311		_	
Flow ID						
>Binding ID	0		9.2.1.4		_	
>Transport Layer	0		9.2.1.63		_	
Address >HS-DSCH Initial	0		9.2.1.31Ha			
	0		9.2.1.31Ha		_	
Capacity Allocation HS-SCCH Specific		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
Information		NoOfHS		Mcps TDD or	GLOBAL	reject
Response		SCCHc		7.68Mcps TDD		
1 toopenee		odes>		7.0010000 122		
>Time Slot	М		9.2.3.23		_	
>Midamble Shift And	M		9.2.3.7		_	
Burst Type						
>TDD Channelisation	M		9.2.3.19		_	
Code						
>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						
>>TDD	M		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		
		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
>HS-SCCH Specific		NoOfHS		Mcps TDD or	GLOBAL	reject
Information		SCCHc		7.68Mcps TDD		
Response LCR		odes>		7.0010000 122		
>>Time Slot LCR	М		9.2.3.24A		_	
>>Midamble Shift	М		9.2.3.7A		_	
LCR						
>>First TDD	M		TDD		_	
Channelisation			Channelisatio			
Code			n Code			
			9.2.3.19			
>>Second TDD	M		TDD		_	
Channelisation			Channelisatio			
Code			n Code			
>>HS-SICH	<del> </del>	1	9.2.3.19			
Information LCR	1	'			_	
>>>HS SICH ID	M		9.2.3.5Gb	If the Extended HS-	_	
777 IO 010 IU	101		3.2.3.300	SICH ID IE is included	_	
				in the HS-SICH		
	1			Information LCR IE,		
	1			the HS-SICH ID IE		
	<u> </u>	<u>L</u>		shall be ignored.	<u></u>	<u>                                     </u>
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble	M		9.2.3.7A		_	
Shift LCR						
>>>TDD	M		9.2.3.19			
Channelisation						
Code	<u> </u>		0.05.71	- · · · · · · · · · · · · · · · · · · ·	,,==	
>>>Extended HS-	0		9.2.3.5K	The Extended HS-	YES	ignore
SICH ID	1			SICH ID IE shall be		
	I		l	used if the HS-SICH	l .	İ

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 [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&gt;</max 		See note 1 below	_	
>HARQ Memory Partitioning	0	- Gyr	9.2.1.102		-	
>UARFCN	0		9.2.1.65	Corresponds to Nt [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&gt;</max 		Not applicable to 3.84 Mcps TDD or 1.28Mcps TDD	GLOBAL	reject
>Time Slot	М	0 0.00	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			_	
>>HS SICH ID	M		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	М		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

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

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

### 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 [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.

	ſ	IE/Group Name	Presence	Range	IE Type and	Semantics Description
--	---	---------------	----------	-------	-------------	-----------------------

		Reference	
IP SpacingTDD	M	ENUMERATED	See [21]
		(30, 40, 50, 70, 100,	
		)	
IP Start	M	INTEGER (04095)	See [21]
IP_Sub	M	ENUMERATED (	See [21]
		First,	
		Second,	
		Both)	
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 [19]
>>CHOICE Midamble Allocation Mode	М		(1, 5, 15)	
>>>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 [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 [19]
>>CHOICE Midamble Allocation Mode	М			
>>>Default Midamble			NULL	
>>>UE Specific Midamble				
>>Midamble Shift Long	М		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	Semantics Description
			Reference	
Midamble Allocation Mode	M		ENUMERATED (	
			Default midamble,	
			Common midamble,	
			UE specific	
			midamble,	
			)	
Midamble Shift Long	C-UE		INTEGER (015)	
Midamble Configuration LCR	M		ENUMERATED (2,	As defined in [19]
			4, 6, 8, 10, 12, 14,	
			16,)	

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 [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 Cycle Period			INTEGER (116,)	

# 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 [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. [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. [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. [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 [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. [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. [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. [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. [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. [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 &gt;</maxn 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	-	

>>Sync Frame Number To Receive	М		Sync Frame Number 9.2.3.18C		-	
>>Cell Sync Burst Information		1 <maxn oofrecept ionsperS yncFram e&gt;</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&gt;</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&gt;</maxn 			-	
>>>SYNC_DL Code ID	M		9.2.3.18B		-	
>>>SYNC_DL Code ID Arrival Time	0		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 [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 [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. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Offset Type			11010101100	
>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&gt;</maxno 		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code	M		9.2.3.19	

Range Bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH

# 9.2.3.19C 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&gt;</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. [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. [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. [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. [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Uplink Step Size			ENUMERATED (1, 2, 3,)	Unit: dB

# 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&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code	М		9.2.3.19	

Range Bound	Explanation	
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH	

# 9.2.3.21B 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&gt;</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. [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	M		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 [23]
>Initial Phase				
>>Timing Adjustment Value	М		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 Reference	Semantics Description
CHOICE Phase				According to mapping in [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	Semantics Description
			Reference	
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. [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. [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot ISCP			INTEGER (0127)	According to mapping in [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&gt;</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	
>UL Code Information	M		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&gt;</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 &gt;</maxno 			_	
>Time Slot LCR	М		9.2.3.24A		-	
>Midamble Shift LCR	M		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 Reference	Semantics Description
UL Time Slot ISCP Info LCR		1 <maxno ofULtsLCR &gt;</maxno 		
>Time Slot LCR	M		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&gt;</max 			_	
>USCH ID	M		9.2.3.27		_	
>CCTrCH ID	M		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

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&gt;</maxno 		
>USCH ID	М		9.2.3.27	
>Binding ID	0		9.2.1.4	
>Transport Layer 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. [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	М		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 7.68 Mcps			INTEGER (0511)	

# 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	Semantics Description
			Reference	
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	M		ENUMERATED (4,	As defined in [19]
Burst Type 1 And 3			8, 16)	
>>CHOICE Midamble	M			
Allocation Mode				
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific Midamble				
>>Midamble Shift Long	М		INTEGER (015)	
>Type2				
>>Midamble Configuration	M		ENUMERATED	As defined in [19]
Burst Type 2			(4, 8)	
>>CHOICE Midamble	M			
Allocation Mode				
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific				
Midamble				
>>Midamble Shift Short	M		INTEGER (07)	
>Type3				UL only
>>Midamble Configuration	M		ENUMERATED (4,	As defined in [19]
Burst Type 1 And 3			8, 16)	
>>CHOICE Midamble	M			
Allocation Mode				
>>>Default Midamble			NULL	
>>>UE Specific				
Midamble				
>>Midamble Shift Long	M		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	М		9.2.1.52	
Availability Status	М		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	M		9.2.1.65	Corresponds to Nt [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&gt;</maxno 		
>Time Slot	M		9.2.3.23	
>Midamble Shift And Burst Type 7.68Mcps	М		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&gt;</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	
>DL Code Information	М		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&gt;</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&gt;</maxno 		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code 7.68Mcps	М		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)	
			( <del>4</del> , 0,,10)	

# 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	M		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 [8]
N <sub>E-UCCH</sub>	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 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 [8]
PRXdes_base	М		INTEGER (-11250)	dBm. Reference Desired RX power level for E-PUCH. Reference to P <sub>e-base</sub> in [21]
E-PUCH TPC Step Size	M		9.2.3.21a	
E-AGCH TPC Step Size	M		9.2.3.21	

# 9.2.3.46 E-TFCS Information TDD

Whereas the related E-DCH Transport Block sizes are standardised in [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&gt;</maxno 		
>Reference Code Rate	М		INTEGER (010)	Unit: - Range: 01 Step: 0.1
>Reference Beta	М		INTEGER(-1516)	Unit: - Range: -15+16 Step: 1 dB
Reference Beta Information 16QAM		1 <maxno ofRefbeta s&gt;</maxno 		
>Reference Code Rate	М		INTEGER (010)	Unit: - Range: 01 Step: 0.1
>Reference Beta	М		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 &gt;</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	
>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	M		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.

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	_	
	IVI		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 [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 for scheduling info.

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

## 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 Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH TDD MAC-d Flow Specific Information Response		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			-	
>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		_	
E-AGCH Specific Information Response TDD		0 <maxno OfEAGCH codes&gt;</maxno 			-	
>E-AGCH ID TDD	M		9.2.3.51		_	
E-RNTI	M		9.2.1.75		_	
Scheduled E-HICH Specific Information Response 1.28Mcps TDD		0 <maxno OfEHICHc odes&gt;</maxno 		1.28Mcps TDD only	_	
>EI	М		INTEGER (03)	E-HICH indication which is used to indicate UE on which E-HICH the feedback info is carried.	_	
>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.	-	
>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

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	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>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	
>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&gt;</maxno 		
>>Logical Channel ID	М		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	

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 Related Information			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)	

#### 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<sub>E-HICH</sub> [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<sub>E-HICH</sub> [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 Reference	Semantics Description
UL Cost	М		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 [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 [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 Reference	Semantics Description
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 [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	M		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 [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 [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 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
				[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)	

# 9.3 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

```
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,

```
PhysicalSharedChannelReconfigurationRequestTDD,
    PhysicalSharedChannelReconfigurationRequestFDD,
    PhysicalSharedChannelReconfigurationResponse,
    PhysicalSharedChannelReconfigurationFailure,
    CellSynchronisationInitiationRequestTDD,
    CellSynchronisationInitiationResponseTDD,
    CellSynchronisationInitiationFailureTDD,
    CellSynchronisationReconfigurationRequestTDD.
    CellSynchronisationReconfigurationResponseTDD,
    CellSynchronisationReconfigurationFailureTDD,
    CellSynchronisationAdjustmentRequestTDD,
    CellSynchronisationAdjustmentResponseTDD,
    CellSynchronisationAdjustmentFailureTDD,
    CellSynchronisationReportTDD,
    CellSynchronisationTerminationRequestTDD,
    CellSynchronisationFailureIndicationTDD,
    MBMSNotificationUpdateCommand
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
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
                                     &SuccessfulOutcome]
    [SUCCESSFUL OUTCOME
    [UNSUCCESSFUL OUTCOME
                                     &UnsuccessfulOutcome]
                                     &Outcome]
    [OUTCOME
   MESSAGE DISCRIMINATOR
                                     &messageDiscriminator
   PROCEDURE ID
                                     &procedureID
    [CRITICALITY
                                     &criticality]
-- Interface PDU Definition
  *****************
NBAP-PDU ::= CHOICE {
   initiatingMessage
                          InitiatingMessage,
```

```
succesfulOutcome
                           SuccessfulOutcome,
    unsuccesfulOutcome
                           Unsuccessful Outcome.
    out.come
                           Out.come.
InitiatingMessage ::= SEQUENCE
    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.&InitiatingMessage({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
SuccessfulOutcome ::= 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,
                           NBAP-ELEMENTARY-PROCEDURE. &SuccessfulOutcome ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
UnsuccessfulOutcome ::= SEQUENCE
                                                                  ({NBAP-ELEMENTARY-PROCEDURES}),
    procedureID
                           NBAP-ELEMENTARY-PROCEDURE.&procedureID
                           NBAP-ELEMENTARY-PROCEDURE. &criticality ({NBAP-ELEMENTARY-PROCEDURES} {@procedureID}),
    criticality
    messageDiscriminator
                           NBAP-ELEMENTARY-PROCEDURE. & messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                           TransactionID,
                           NBAP-ELEMENTARY-PROCEDURE. &UnsuccessfulOutcome ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
Outcome ::= SEQUENCE {
    procedureID
                           NBAP-ELEMENTARY-PROCEDURE. &procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
    criticality
                           NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
                           NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    messageDiscriminator
    transactionID
                           TransactionID,
                           NBAP-ELEMENTARY-PROCEDURE.&Outcome ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
     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
    ****************
  Interface Elementary Procedures
      ****************
-- Class 1
-- *** CellSetup (FDD) ***
cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                          CellSetupRequestFDD
   INITIATING MESSAGE
   SUCCESSFUL OUTCOME
                          CellSetupResponse
                          CellSetupFailure
   UNSUCCESSFUL OUTCOME
   MESSAGE DISCRIMINATOR
                          common
                          { procedureCode id-cellSetup, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                          reject
-- *** CellSetup (TDD) ***
cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                          CellSetupRequestTDD
    INITIATING MESSAGE
                          CellSetupResponse
   SUCCESSFUL OUTCOME
   UNSUCCESSFUL OUTCOME
                          CellSetupFailure
   MESSAGE DISCRIMINATOR
                          { procedureCode id-cellSetup, ddMode tdd }
   PROCEDURE ID
    CRITICALITY
                          reject
-- *** CellReconfiguration(FDD) ***
cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE
                          CellReconfigurationRequestFDD
                          CellReconfigurationResponse
   SUCCESSFUL OUTCOME
                          CellReconfigurationFailure
   UNSUCCESSFUL OUTCOME
   MESSAGE DISCRIMINATOR
   PROCEDURE ID
                          { procedureCode id-cellReconfiguration, ddMode fdd
    CRITICALITY
                          reject
-- *** CellReconfiguration(TDD) ***
cellReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
```

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CellReconfigurationRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CellReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            CellReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-cellReconfiguration, ddMode tdd
    CRITICALITY
                            reject
-- *** CellDeletion ***
cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellDeletionRequest
    SUCCESSFUL OUTCOME
                            CellDeletionResponse
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-cellDeletion, ddMode common }
                            reject
    CRITICALITY
-- *** CommonTransportChannelSetup (FDD) ***
commonTransportChannelSetupFDD NBAP-ELEMENTARY-PROCEDURE ::=
                            CommonTransportChannelSetupRequestFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonTransportChannelSetupResponse
                            CommonTransportChannelSetupFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelSetup, ddMode fdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelSetup (TDD) ***
commonTransportChannelSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelSetupRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonTransportChannelSetupResponse
                            CommonTransportChannelSetupFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            { procedureCode id-commonTransportChannelSetup, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelReconfigurationReguestFDD
    SUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelReconfigurationRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            { procedureCode id-commonTransportChannelReconfigure, ddMode tdd }
    PROCEDURE ID
```

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CRITICALITY
                            reject
-- *** CommonTransportChannelDelete ***
commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelDeletionRequest
    INITIATING MESSAGE
                            CommonTransportChannelDeletionResponse
    SUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelDelete, ddMode common }
    CRITICALITY
                            reject
-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
                            AuditRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            AuditResponse
                            AuditFailure
    UNSUCCESSFUL OUTCOME
                            common
    MESSAGE DISCRIMINATOR
                            { procedureCode id-audit, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** BlockResourceRequest ***
blockResource NBAP-ELEMENTARY-PROCEDURE ::= {
                            BlockResourceRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            BlockResourceResponse
                            BlockResourceFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-blockResource, ddMode common }
    PROCEDURE ID
    CRITICALITY
-- *** RadioLinkSetup (FDD) ***
radioLinkSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkSetupRequestFDD
    INITIATING MESSAGE
                            RadioLinkSetupResponseFDD
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            RadioLinkSetupFailureFDD
    MESSAGE DISCRIMINATOR
                            { procedureCode id-radioLinkSetup, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** RadioLinkSetup (TDD) ***
radioLinkSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkSetupRequestTDD
                            RadioLinkSetupResponseTDD
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            RadioLinkSetupFailureTDD
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-radioLinkSetup, ddMode tdd }
    CRITICALITY
                            reject
-- *** SystemInformationUpdate ***
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
```

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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 ::= {
                            CommonMeasurementInitiationRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonMeasurementInitiationResponse
                            CommonMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonMeasurementInitiation, ddMode common }
    CRITICALITY
                            reject
-- *** RadioLinkAddition (FDD) ***
radioLinkAdditionFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkAdditionRequestFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkAdditionResponseFDD
                            RadioLinkAdditionFailureFDD
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-radioLinkAddition, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
-- *** RadioLinkAddition (TDD) ***
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkAdditionRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkAdditionResponseTDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkAdditionFailureTDD
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-radioLinkAddition, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** RadioLinkDeletion
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkDeletionRequest
    SUCCESSFUL OUTCOME
                            RadioLinkDeletionResponse
   MESSAGE DISCRIMINATOR
                            dedicated
```

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{ procedureCode id-radioLinkDeletion, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** SynchronisedRadioLinkReconfigurationPreparation (FDD) ***
synchronisedRadioLinkReconfigurationPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationPrepareFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationReadv
    UNSUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** SynchronisedRadioLinkReconfigurationPreparation (TDD) ***
synchronisedRadioLinkReconfigurationPreparationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationPrepareTDD
    INITIATING MESSAGE
                            RadioLinkReconfigurationReady
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
    CRITICALITY
-- *** UnSynchronisedRadioLinkReconfiguration (FDD) ***
unSynchronisedRadioLinkReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkReconfigurationReguestFDD
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationResponse
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    CRITICALITY
                            reject
-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***
unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkReconfigurationRequestTDD
                            RadioLinkReconfigurationResponse
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** DedicatedMeasurementInitiation ***
dedicatedMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementInitiationRequest
    SUCCESSFUL OUTCOME
                            DedicatedMeasurementInitiationResponse
                            DedicatedMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-dedicatedMeasurementInitiation, ddMode common
    PROCEDURE ID
    CRITICALITY
                            reject
```

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-- *** PhysicalSharedChannelReconfiguration (FDD) ***
physicalSharedChannelReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalSharedChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME PhysicalSharedChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            PhysicalSharedChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                        { procedureCode id-physicalSharedChannelReconfiguration, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                        reject
-- *** PhysicalSharedChannelReconfiguration (TDD) ***
physicalSharedChannelReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalSharedChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME PhysicalSharedChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            PhysicalSharedChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                        { procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                        reject
-- *** InformationExchangeInitiation ***
informationExchangeInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeInitiationRequest
    SUCCESSFUL OUTCOME
                            InformationExchangeInitiationResponse
    UNSUCCESSFUL OUTCOME
                            InformationExchangeInitiationFailure
    MESSAGE DISCRIMINATOR
                            { procedureCode id-informationExchangeInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** CellSynchronisationInitiation (TDD only) ***
cellSynchronisationInitiationTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE CellSynchronisationInitiationRequestTDD
    SUCCESSFUL OUTCOME CellSynchronisationInitiationResponseTDD
    UNSUCCESSFUL OUTCOME
                            CellSynchronisationInitiationFailureTDD
    MESSAGE DISCRIMINATOR
                           common
    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
    PROCEDURE ID
                        { procedureCode id-cellSynchronisationReconfiguration, ddMode tdd }
    CRITICALITY
                        reject
-- *** CellSynchronisationAdjustment (TDD only) ***
cellSynchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE CellSynchronisationAdjustmentRequestTDD
    SUCCESSFUL OUTCOME CellSynchronisationAdjustmentResponseTDD
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CellSynchronisationAdjustmentFailureTDD
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                        { procedureCode id-cellSynchronisationAdjustment, ddMode tdd }
    CRITICALITY
-- Class 2
-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
                            ResourceStatusIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
    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
                            { procedureCode id-commonMeasurementReport, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementTerminationRequest
   MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-commonMeasurementTermination, ddMode common }
    CRITICALITY
                            ignore
-- *** CommonMeasurementFailure ***
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonMeasurementFailureIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                           common
                              procedureCode id-commonMeasurementFailure, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** SynchronisedRadioLinkReconfigurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkReconfigurationCommit
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    CRITICALITY
                            ignore
```

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-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkReconfigurationCancel
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    PROCEDURE ID
    CRITICALITY
-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkFailureIndication
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-radioLinkFailure, ddMode common
    PROCEDURE ID
    CRITICALITY
-- *** RadioLinkPreemption ***
radioLinkPreemption NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkPreemptionRequiredIndication
    MESSAGE DISCRIMINATOR dedicated
                        { procedureCode id-radioLinkPreemption, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::=
                            RadioLinkRestoreIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-radioLinkRestoration, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementReport
                           dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-dedicatedMeasurementReport, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementTermination ***
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
                            DedicatedMeasurementTerminationRequest
    INITIATING MESSAGE
   MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementFailure ***
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            DedicatedMeasurementFailureIndication
    MESSAGE DISCRIMINATOR dedicated
```

```
{ procedureCode id-dedicatedMeasurementFailure, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** DLPowerControl (FDD only) ***
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DL-PowerControlRequest
    MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY
-- *** DLPowerTimeslotControl (TDD only) ***
downlinkPowerTimeslotControl NBAP-ELEMENTARY-PROCEDURE ::=
                            DL-PowerTimeslotControlRequest
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
                            CompressedModeCommand
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-compressedModeCommand, ddMode fdd }
    CRITICALITY
                            ignore
-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            UnblockResourceIndication
   MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-unblockResource, ddMode common
    CRITICALITY
                            ignore
-- *** ErrorIndication for Dedicated procedures ***
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::=
                            ErrorIndication
    INITIATING MESSAGE
    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
                            ignore
-- *** CellSynchronisationReporting (TDD only) ***
cellSynchronisationReportingTDD NBAP-ELEMENTARY-PROCEDURE ::= {
```

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INITIATING MESSAGE
                            CellSynchronisationReportTDD
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                              procedureCode id-cellSynchronisationReporting, ddMode tdd }
    CRITICALITY
-- *** CellSynchronisationTermination (TDD only) ***
cellSvnchronisationTerminationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellSynchronisationTerminationRequestTDD
    MESSAGE DISCRIMINATOR
                            { procedureCode id-cellSynchronisationTermination, ddMode tdd }
    PROCEDURE ID
    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 ::= {
    INITIATING MESSAGE
                            PrivateMessage
    MESSAGE DISCRIMINATOR
                            dedicated
                              procedureCode id-privateMessageForDedicated, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            PrivateMessage
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-privateMessageForCommon, ddMode common
    CRITICALITY
                            ignore
-- *** InformationReporting ***
informationReporting NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationReport
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-informationReporting, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** 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
                            ignore
-- *** BearerRearrangement ***
bearerRearrangement NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            BearerRearrangementIndication
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-BearerRearrangement, ddMode common }
    CRITICALITY
                            ignore
-- *** RadioLinkActivation (FDD) ***
radioLinkActivationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkActivationCommandFDD
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-radioLinkActivation, ddMode fdd
    CRITICALITY
                            ignore
-- *** RadioLinkActivation (TDD) ***
radioLinkActivationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkActivationCommandTDD
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-radioLinkActivation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** RadioLinkParameterUpdate (FDD) ***
radioLinkParameterUpdateFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationFDD
   MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkParameterUpdate, ddMode fdd }
    CRITICALITY
                            ignore
-- *** RadioLinkParameterUpdate (TDD) ***
radioLinkParameterUpdateTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            {\tt RadioLinkParameterUpdateIndicationTDD}
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkParameterUpdate, ddMode tdd }
    CRITICALITY
                            ignore
-- *** MBMSNotificationUpdate ***
mBMSNotificationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            MBMSNotificationUpdateCommand
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                              procedureCode id-mBMSNotificationUpdate, ddMode common }
    CRITICALITY
                            ignore
```

```
}
END
```

## 9.3.3 PDU Definitions

```
-- PDU definitions for NBAP.
__ ********************
NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
__ **********************
-- IE parameter types from other modules.
__ ********************
IMPORTS
   Active-Pattern-Sequence-Information,
   AddorDeleteIndicator,
   AICH-Power,
   AICH-TransmissionTiming,
   AllocationRetentionPriority,
   AlternativeFormatReportingIndicator,
   AvailabilityStatus,
   BCCH-ModificationTime,
   BindingID,
   BlockingPriorityIndicator,
   BroadcastReference,
   SCTD-Indicator.
   Cause,
   CCTrCH-ID,
   CellParameterID,
   CellPortionID,
   CellSyncBurstCode,
   CellSyncBurstCodeShift,
   CellSyncBurstRepetitionPeriod,
   CellSyncBurstSIR,
   CellSyncBurstTiming,
   CellSyncBurstTimingThreshold,
   CFN,
   ChipOffset,
```

```
C-ID,
Closedlooptimingadjustmentmode,
CommonChannelsCapacityConsumptionLaw,
Compressed-Mode-Deactivation-Flag,
Common-MACFlows-to-DeleteFDD.
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue,
CommonMeasurementValueInformation,
CommonPhysicalChannelID,
CommonPhysicalChannelID768,
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,
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,
DwPCH-Power,
E-AGCH-FDD-Code-Information,
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-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,
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,
```

```
HARQ-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,
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,
Serving-E-DCH-RL-ID,
SixteenOAM-UL-Capability,
SixtyfourOAM-DL-Capability,
SFN,
SFNSFNChangeLimit,
SFNSFNDriftRate.
SFNSFNDriftRateQuality,
SFNSFNQuality,
ShutdownTimer,
SIB-Originator,
SpecialBurstScheduling,
SignallingBearerRequestIndicator,
Start-Of-Audit-Sequence-Indicator,
STTD-Indicator,
SSDT-SupportIndicator,
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,
TransmitDiversitvIndicator,
TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportBearerRequestIndicator,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
TUTRANGPS,
TUTRANGPSChangeLimit,
TUTRANGPSDriftRate,
TUTRANGPSDriftRateQuality,
TUTRANGPSQuality,
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,
    Extended-HS-SICH-ID,
    Extended-HS-SCCH-ID,
   TimeslotLCR-Extension,
    Extended-E-HICH-ID-TDD
FROM NBAP-IEs
    PrivateIE-Container{},
    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-SetupRgstTDD,
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-AdditionRgstTDD,
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD,
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD,
id-CellAdjustmentInfo-SyncAdjustmntRgstTDD,
id-CellAdjustmentInfoItem-SyncAdjustmentRgstTDD,
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-CellSyncInitiationRgstTDD,
id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD,
id-cellSyncBurstRepetitionPeriod,
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD,
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD,
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRgstTDD,
id-CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD,
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,
id-CellSyncInfo-CellSyncReprtTDD.
id-CFN,
id-CFNReportingIndicator,
id-C-ID,
id-Closed-Loop-Timing-Adjustment-Mode,
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-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-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,
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-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rgst,
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-ReconfRqstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD.
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD.
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-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code,
id-E-AGCH-FDD-Code-Information,
id-E-DCH-Capability,
id-E-DCH-TTI2ms-Capability,
id-E-DCH-SF-Capability,
id-E-DCH-HARQ-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-ReconfRgstFDD,
id-E-DPCH-Information-RL-SetupRgstFDD,
id-E-DPCH-Information-RL-AdditionRegFDD,
id-E-RGCH-E-HICH-FDD-Code-Information,
id-End-Of-Audit-Sequence-Indicator,
```

```
id-Enhanced-FACH-Capability,
id-Enhanced-PCH-Capability,
id-ExtendedPropagationDelay.
id-FACH-Information,
id-FACH-ParametersList-CTCH-ReconfRqstTDD,
id-FACH-ParametersList-CTCH-SetupRsp,
id-FACH-ParametersListIE-CTCH-ReconfRgstFDD.
id-FACH-ParametersListIE-CTCH-SetupRostFDD,
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,
id-Fast-Reconfiguration-Mode,
id-Fast-Reconfiguration-Permission,
id-F-DPCH-Capability,
id-F-DPCH-Information-RL-ReconfPrepFDD,
id-F-DPCH-Information-RL-SetupRgstFDD,
id-F-DPCH-SlotFormat,
id-F-DPCH-SlotFormatCapability,
id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRgst,
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-Rgst,
id-InformationExchangeObjectType-InfEx-Rsp.
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-IntStdPhCellSyncInfoItem-CellSyncReprtTDD,
id-IPDLParameter-Information-Cell-ReconfRostFDD,
id-IPDLParameter-Information-Cell-SetupRqstFDD,
id-IPDLParameter-Information-Cell-ReconfRgstTDD,
id-IPDLParameter-Information-Cell-SetupRgstTDD,
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,
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id-MeasurementRecoveryBehavior,
id-MeasurementRecoveryReportingIndicator,
id-MeasurementRecoverySupportIndicator.
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRgst,
id-MBMS-Capability,
id-MICH-CFN,
id-MICH-Information-AuditRsp.
id-MICH-Information-ResourceStatusInd,
id-MICH-Parameters-CTCH-ReconfRqstFDD,
id-MICH-Parameters-CTCH-ReconfRqstTDD,
id-MICH-Parameters-CTCH-SetupRqstFDD,
id-MICH-Parameters-CTCH-SetupRqstTDD,
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-ReconfRgstTDD,
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.
id-NI-Information-NotifUpdateCmd,
id-NodeB-CommunicationContextID.
id-NRepetitionsPerCyclePeriod,
id-NumberOfReportedCellPortions,
id-Paging-MACFlows-to-DeleteFDD,
id-P-CCPCH-Information,
id-P-CPICH-Information,
id-P-SCH-Information,
id-PCCPCH-Information-Cell-ReconfRgstTDD,
id-PCCPCH-Information-Cell-SetupRqstTDD,
id-PCH-Parameters-CTCH-ReconfRgstTDD,
id-PCH-Parameters-CTCH-SetupRsp,
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,
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-ReconfRgst-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,
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id-PLCCH-InformationList-AuditRsp,
id-PLCCH-InformationList-ResourceStatusInd.
id-PLCCH-Parameters-CTCH-ReconfRgstTDD.
id-PowerAdjustmentType,
id-Power-Local-Cell-Group-choice-CM-Rgst,
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-SetupRgstTDD,
id-PRACH-ParametersListIE-CTCH-ReconfRgstFDD,
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-SetupRgstFDD,
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,
id-Primary-CPICH-Usage-for-Channel-Estimation,
id-PrimarySCH-Information-Cell-ReconfRgstFDD,
id-PrimarySCH-Information-Cell-SetupRqstFDD,
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-ReconfRgst-LCR,
id-PUSCHConstant,
id-PUSCHSets-AddList-PSCH-ReconfRast,
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,
id-PUSCHSets-ModifyList-PSCH-ReconfRast,
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-ID.
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rgst,
id-RL-InformationItem-DM-Rsp.
id-RL-InformationItem-RL-AdditionRgstFDD,
id-RL-informationItem-RL-DeletionRgst,
id-RL-InformationItem-RL-FailureInd,
id-RL-InformationItem-RL-PreemptRequiredInd,
id-RL-InformationItem-RL-ReconfPrepFDD,
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id-RL-InformationItem-RL-ReconfRqstFDD,
id-RL-InformationItem-RL-RestoreInd.
id-RL-InformationItem-RL-SetupRostFDD.
id-RL-InformationList-RL-AdditionRgstFDD,
id-RL-informationList-RL-DeletionRgst,
id-RL-InformationList-RL-PreemptRequiredInd,
id-RL-InformationList-RL-ReconfPrepFDD.
id-RL-InformationList-RL-ReconfRgstFDD,
id-RL-InformationList-RL-SetupRqstFDD,
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,
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,
id-RL-Set-InformationItem-DM-Rprt,
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-ReconfRqstTDD,
id-Secondary-CPICH-Information,
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,
id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD,
id-SecondaryCPICH-InformationList-Cell-SetupRgstFDD.
id-Secondary-CPICH-Information-Change,
id-SecondarySCH-Information-Cell-ReconfRqstFDD,
id-SecondarySCH-Information-Cell-SetupRqstFDD,
id-SegmentInformationListIE-SystemInfoUpdate,
id-Serving-Cell-Change-CFN,
id-Serving-E-DCH-RL-ID,
id-SixteenQAM-UL-Capability,
id-SixtyfourQAM-DL-Capability,
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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-Synchronisation-Configuration-Cell-ReconfRgst,
id-Synchronisation-Configuration-Cell-SetupRost,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,
id-SyncFrameNumber,
id-SynchronisationReportType,
id-SynchronisationReportCharacteristics,
id-SyncReportType-CellSyncReprtTDD,
id-T-Cell.
id-TargetCommunicationControlPortID,
id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRgstTDD,
id-TimeSlotConfigurationList-Cell-SetupRgstTDD,
id-timeslotInfo-CellSvncInitiationRgstTDD,
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-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
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-AdditionRgstTDD,
id-UL-DPCH-InformationList-RL-SetupRqstTDD,
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-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
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,
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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-ReconfRqstTDD.
id-DwPCH-LCR-Information-ResourceStatusInd,
id-maxFACH-Power-LCR-CTCH-SetupRgstTDD,
id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD,
id-FPACH-LCR-Information,
id-FPACH-LCR-Information-AuditRsp,
id-FPACH-LCR-InformationList-AuditRsp,
id-FPACH-LCR-InformationList-ResourceStatusInd,
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,
id-PCCPCH-LCR-Information-Cell-SetupRgstTDD,
id-PCH-Power-LCR-CTCH-SetupRqstTDD,
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-SetupRqstTDD,
id-TimeSlotLCR-CM-Rast,
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,
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-RgstTDD,
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-ReconfRqst,
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRast,
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRgst,
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
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id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
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-ReconfRgst,
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRgst,
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRgst,
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst,
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst,
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD,
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD,
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD,
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD,
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRgstTDD,
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD,
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD,
id-DwPCH-Power,
id-AccumulatedClockupdate-CellSvncReprtTDD,
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-Rqst,
id-HSSICH-Info-DM-Rsp.
id-PrimCCPCH-RSCP-DL-PC-RastTDD,
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-SetupRgstTDD,
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD,
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD,
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id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD,
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-ReconfRgstTDD,
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD,
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD,
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD,
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-ReconfRgstTDD,
id-PICH-768-Parameters-CTCH-SetupRgstTDD,
id-PICH-768-Parameters-CTCH-ReconfRgstTDD.
id-PRACH-768-Parameters-CTCH-SetupRgstTDD,
id-S-CCPCH-768-InformationList-AuditRsp.
id-S-CCPCH-768-Information-AuditRsp,
id-S-CCPCH-768-Parameters-CTCH-SetupRqstTDD,
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,
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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-AdditionRgstTDD,
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-Rgst,
id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp,
id-DPCH-ID768-DM-Rsp.
id-DPCH-ID768-DM-Rprt,
id-PDSCH-AddInformation-768-PSCH-ReconfRqst,
id-PDSCH-ModifyInformation-768-PSCH-ReconfRgst,
id-PUSCH-AddInformation-768-PSCH-ReconfRgst,
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-ReconfRqst,
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-ReconfRqst,
id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst,
id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRgst,
id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRgst,
id-E-HICH-Information-PSCH-ReconfRgst,
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-ReconfRgst,
id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst,
id-E-HICH-Information-768-PSCH-ReconfRqst,
```

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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-ReconfRgst,
id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRgst,
id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst,
id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst,
id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRgst,
id-E-HICH-TimeOffsetLCR,
id-HSDSCH-MACdPDU-SizeCapability,
id-ModulationPO-MBSFN,
id-Secondary-CCPCH-SlotFormat-Extended,
id-MBSFN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR,
id-Time-Slot-Parameter-ID,
id-MBSFN-Only-Mode-Capability,
id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD,
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-ReconfRqstTDD,
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-Rast,
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-MBSFN-SpecialTimeSlot-LCR,
id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp,
```

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id-MultipleFreg-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst,
id-MultipleFreg-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst,
id-Extended-E-HICH-ID-TDD,
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,
```

id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd,

```
maxNrOfSlotFormatsPRACH,
         maxIB.
          maxIBSEG.
          maxNrOfCellPortionsPerCell,
          maxNrOfHSSCCHs.
          maxNrOfHSSICHs,
          maxNrOfHSSICHs-1,
          maxNrOfHSPDSCHs,
          maxNrOfHSPDSCHs768.
          maxNrOfSvncFramesLCR,
          maxNrOfReceptionsperSyncFrameLCR,
          maxNrOfSyncDLCodesLCR,
          maxNrOfMACdFlows,
          maxNrOfEDCHMACdFlows,
          maxE-RUCCHCell,
          maxNrOfE-PUCHSlots,
          maxNrOfEAGCHs,
          maxNrOfEAGCHCodes,
          maxNrOfE-PUCHSlotsLCR,
          maxNrOfEPUCHcodes,
          maxNrOfEHICHs,
          maxFrequencyinCell,
          maxFrequencyinCell-1,
          maxNrOfHSSCCHsinExt
FROM NBAP-Constants:
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
CommonTransportChannelSetupRequestFDD ::= SEQUENCE
         protocolIEs
                                                                    ProtocolIE-Container
                                                                                                                                           {{CommonTransportChannelSetupRequestFDD-IEs}},
                                                                                                                                          {{CommonTransportChannelSetupRequestFDD-Extensions}}
         protocolExtensions
                                                                    ProtocolExtensionContainer
                                                                                                                                                                                                                                                                                       OPTIONAL,
{\tt CommonTransportChannelSetupRequestFDD-Extensions~NBAP-PROTOCOL-EXTENSION~::=~ \{ to the large of the larg
CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
                            id-C-ID
                                                                                                                                                                                                                         TYPE
              ID
                                                                                                                                                              CRITICALITY reject
                                                                                                                                                                                                                                             C-ID
                                                                                                                                                                                                                                                                                                                    PRESENCE mandatory
                            id-ConfigurationGenerationID
                                                                                                                                                              CRITICALITY reject
                                                                                                                                                                                                                         TYPE
                                                                                                                                                                                                                                             ConfigurationGenerationID PRESENCE mandatory
              ID
                            id-CommonPhysicalChannelType-CTCH-SetupRqstFDD
                                                                                                                                                              CRITICALITY ignore
                                                                                                                                                                                                                         TYPE
                                                                                                                                                                                                                                             CommonPhysicalChannelType-CTCH-SetupRqstFDD
          PRESENCE
                                       mandatory },
CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
          secondary-CCPCH-parameters
                                                                                        Secondary-CCPCH-CTCH-SetupRqstFDD,
          pRACH-parameters
                                                                                         PRACH-CTCH-SetupRqstFDD,
```

```
notUsed-pCPCHes-parameters
                                    NULL,
Secondary-CCPCH-CTCH-SetupRgstFDD ::= 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,
    t FCS
    secondary-CCPCH-SlotFormat
                                            SecondaryCCPCH-SlotFormat,
    t.FCI-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
    multiplexingPosition
                                            MultiplexingPosition,
    powerOffsetInformation
                                            PowerOffsetInformation-CTCH-SetupRgstFDD,
    sTTD-Indicator
                                            STTD-Indicator,
                                            FACH-ParametersList-CTCH-SetupRqstFDD
    fACH-Parameters
                                                                                        OPTIONAL,
                                            PCH-Parameters-CTCH-SetupRgstFDD
                                                                                        OPTIONAL,
    pCH-Parameters
                                            ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL.
Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-MICH-Parameters-CTCH-SetupRqstFDD
                                                                                                                             PRESENCE optional }
                                                        CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstFDD
     ID id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRgstFDD
                                                        CRITICALITY reject EXTENSION FDD-S-CCPCH-FrameOffset
                                                                                                                             PRESENCE optional
                                                                                                                             PRESENCE optional
     ID id-ModulationPO-MBSFN
                                                        CRITICALITY reject EXTENSION ModulationPO-MBSFN
     ID id-Secondary-CCPCH-SlotFormat-Extended
                                                        CRITICALITY reject EXTENSION Secondary-CCPCH-SlotFormat-Extended
                                                                                                                             PRESENCE optional },
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset,
                                            ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRgstFDD-ExtIEs} } OPTIONAL.
   iE-Extensions
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}
FACH-ParametersListIEs-CTCH-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD CRITICALITY reject
                                                                            TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory }
FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
                                        TransportFormatSet,
    transportFormatSet
    toAWS
                                        ToAWS,
```

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toAWE
                                        ToAWE,
    maxFACH-Power
                                        DL-Power.
    iE-Extensions
                                        ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                             OPTIONAL.
FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-bindingID
                                                CRITICALITY ignore
                                                                        EXTENSION
                                                                                    BindingID
                                                                                                                       PRESENCE optional }
     TD
           id-transportlayeraddress
                                                CRITICALITY ignore
                                                                        EXTENSION
                                                                                    TransportLayerAddress
                                                                                                                       PRESENCE optional
     TD
           id-TnlOos
                                                CRITICALITY ignore
                                                                                    Tnl0os
                                                                                                                       PRESENCE optional
                                                                        EXTENSION
     TD
           id-BroadcastReference
                                                CRITICALITY ignore
                                                                        EXTENSION
                                                                                    BroadcastReference
                                                                                                                       PRESENCE optional }
           id-IPMulticastIndication
                                                                                    IPMulticastIndication
                                                                                                                       PRESENCE optional },
     ID
                                                CRITICALITY ignore
                                                                        EXTENSION
    . . .
PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
     ID id-PCH-ParametersItem-CTCH-SetupRgstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRgstFDD PRESENCE mandatory
PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
                                        TransportFormatSet,
    transportFormatSet
    toAWS
                                        ToAWS,
    toAWE
                                        TOAWE,
    pCH-Power
                                        DL-Power,
    pICH-Parameters
                                        PICH-Parameters-CTCH-SetupRgstFDD,
                                        ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
           id-bindingID
                                                CRITICALITY ignore
                                                                                                                     PRESENCE optional } |
                                                                        EXTENSION
                                                                                    BindingID
           id-transportlaveraddress
                                                CRITICALITY ignore
                                                                                                                     PRESENCE optional }
     ID
                                                                        EXTENSION
                                                                                    TransportLaverAddress
     ID
                                                CRITICALITY ignore
                                                                                                                    PRESENCE optional },
           id-TnlOos
                                                                        EXTENSION
                                                                                    Tnl0os
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,
                                                ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} } 
    iE-Extensions
                                                                                                                                OPTIONAL,
PICH-Parameters-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
```

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commonPhysicalChannelID
                                         CommonPhysicalChannelID,
   fdd-dl-ChannelisationCodeNumber
                                         FDD-DL-ChannelisationCodeNumber,
   mICH-Power
                                         PICH-Power.
   mICH-Mode
                                         MICH-Mode,
   sTTD-Indicator
                                         STTD-Indicator,
                                         ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                             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-CTCH-SetupRqstFDD,
   rACH-Parameters
   aICH-Parameters
                                         AICH-Parameters-CTCH-SetupRqstFDD,
   iE-Extensions
                                         OPTIONAL,
   . . .
PRACHITEM-CTCH-SetupRgstFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
SetupRqstFDD
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   rACHSlotFormat
                                         RACH-SlotFormat,
                                         iE-Extensions
   OPTIONAL,
   . . .
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}
RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE
   commonTransportChannelID
                                         CommonTransportChannelID,
```

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transportFormatSet
                                             TransportFormatSet,
   iE-Extensions
                                             OPTIONAL.
RACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-bindingID
                                             CRITICALITY ignore
                                                                    EXTENSION
                                                                               BindingID
                                                                                                             PRESENCE optional } |
     ID
           id-transportlayeraddress
                                             CRITICALITY ignore
                                                                    EXTENSION
                                                                               TransportLayerAddress
                                                                                                             PRESENCE optional } |
     ID
          id-TnlOos
                                             CRITICALITY ignore
                                                                    EXTENSION
                                                                               TnlQos
                                                                                                             PRESENCE optional },
    . . .
AICH-Parameters-CTCH-SetupRgstFDD ::= 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
   protocolIEs
                         ProtocolIE-Container
                                                     {{CommonTransportChannelSetupRequestTDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{CommonTransportChannelSetupRequestTDD-Extensions}}
                                                                                                               OPTIONAL,
CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                                        CRITICALITY reject TYPE C-ID
                                                                                                                  PRESENCE mandatory
          id-ConfigurationGenerationID
                                                        CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                  PRESENCE mandatory
          id-CommonPhysicalChannelType-CTCH-SetupRqstTDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-SetupRqstTDD
                                                                                                                              PRESENCE
   mandatory },
CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
   secondary-CCPCH-parameters
                                             Secondary-CCPCH-CTCH-SetupRqstTDD,
   pRACH-parameters
                                             PRACH-CTCH-SetupRqstTDD,
   pLCCH-parameters
                                             PLCCH-parameters,
```

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eRUCCH-parameters
                                             E-RUCCH-parameters,
    eRUCCH-768-parameters
                                             E-RUCCH-768-parameters,
Secondary-CCPCH-CTCH-SetupRgstTDD ::= 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
    tFCI-Coding
                                             TFCI-Coding,
                                             PunctureLimit,
    punctureLimit
    secondaryCCPCH-parameterList
                                             Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    fACH-ParametersList
                                             FACH-ParametersList-CTCH-SetupRqstTDD
                                                                                       OPTIONAL,
   pCH-Parameters
                                             PCH-Parameters-CTCH-SetupRgstTDD
                                                                                       OPTIONAL.
   iE-Extensions
                                             ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}
                                                                                                                        OPTIONAL.
Secondary-CCPCHItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-Tstd-indicator
                                                            CRITICALITY reject EXTENSION TSTD-Indicator
                                                                                                                      PRESENCE optional } |
     ID id-MICH-Parameters-CTCH-SetupRgstTDD
                                                            CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRgstTDD PRESENCE optional
     ID id-Additional-S-CCPCH-Parameters-CTCH-SetupRgstTDD
                                                            CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-
                PRESENCE optional }|
SetupRastTDD
    -- 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-
SetupRastTDD
                  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
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-SetupRgstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD
    PRESENCE optional }
Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
                                             TDD-ChannelisationCode,
    tdd-ChannelisationCode
    timeslot
                                             TimeSlot,
```

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midambleShiftandBurstType
                                                MidambleShiftAndBurstType,
    tdd-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset,
    repetitionPeriod
                                                RepetitionPeriod.
    repetitionLength
                                                RepetitionLength,
    s-CCPCH-Power
                                                DL-Power.
    iE-Extensions
                                                ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD-ExtIEs} }
    OPTIONAL,
    . . .
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-tFCI-Presence
                                                CRITICALITY notify EXTENSION TFCI-Presence
                                                                                                 PRESENCE optional },
    . . .
Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-
SetupRastTDD
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRgstTDD ::= SEQUENCE
                                                CommonPhysicalChannelID,
    commonPhysicalChannelID
    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.
    tdd-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset,
    repetitionPeriod
                                                RepetitionPeriod,
                                                RepetitionLength,
    repetitionLength
    s-CCPCH-Power
                                                DL-Power,
                                                TDD-DL-DPCH-TimeSlotFormat-LCR,
    s-CCPCH-TimeSlotFormat-LCR
                                                ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
         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 [19]. The IE 'Time Slot LCR' shall be ignored if this
IE appears
Secondary-CCPCH-768-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-parameterItem-CTCH-
SetupRqstTDD
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-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}
FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   FACH-ParametersListIE-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRgstTDD
FACH-ParametersItem-CTCH-SetupRgstTDD ::= SEQUENCE {
   commonTransportChannelID
                                      CommonTransportChannelID,
   fACH-CCTrCH-ID
                                      CCTrCH-ID,
   dl-TransportFormatSet
                                      TransportFormatSet,
   toAWS
                                      ToAWS,
   toAWE.
                                      TOAWE,
                                      ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                OPTIONAL,
FACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-maxFACH-Power-LCR-CTCH-SetupRgstTDD 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.
   { ID id-TnlOos
                                              CRITICALITY ignore EXTENSION TnlQos
                                                                                                      PRESENCE optional } |
   -- Shall be ignored if bearer establishment with ALCAP.
         id-BroadcastReference
                                             CRITICALITY ignore EXTENSION BroadcastReference
                                                                                                      PRESENCE optional } |
         id-IPMulticastIndication
                                              CRITICALITY ignore EXTENSION
                                                                          IPMulticastIndication
                                                                                                      PRESENCE optional },
   { ID
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,
   toAWE
                                      TOAWE,
   pICH-Parameters
                                      PICH-Parameters-CTCH-SetupRqstTDD,
```

```
iE-Extensions
                                     ProtocolExtensionContainer
                                                                                                             OPTIONAL,
PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
          id-PCH-Power-LCR-CTCH-SetupRqstTDD
                                                CRITICALITY reject EXTENSION DL-Power
                                                                                                                PRESENCE optional
     ID
          id-bindingID
                                                CRITICALITY ignore EXTENSION BindingID
                                                                                                                PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
         id-transportlayeraddress
                                                CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                                PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
     ID id-PICH-768-Parameters-CTCH-SetupRgstTDD
                                                CRITICALITY reject EXTENSION PICH-768-ParametersItem-CTCH-SetupRqstTDD
                                                                                                                PRESENCE optional
    ID id-TnlOos
                                                CRITICALITY ignore EXTENSION TnlOos
                                                                                                                PRESENCE optional
   -- Shall be ignored if bearer establishment with ALCAP.
PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}
PICH-ParametersIE-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
     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,
                                     ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                             OPTIONAL,
   . . .
PICH-ParametersItem-CTCH-SetupRqstTDD-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,
```

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pagingIndicatorLength
                                           PagingIndicatorLength,
    pICH-Power
                                           PICH-Power.
    second-TDD-ChannelisationCodeLCR
                                           TDD-ChannelisationCodeLCR
    iE-Extensions
                                           ProtocolExtensionContainer
                                                                      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-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                           CommonPhysicalChannelID768,
    tdd-ChannelisationCode768
                                           TDD-ChannelisationCode768,
    timeSlot
                                           TimeSlot,
                                           MidambleShiftAndBurstType768,
    midambleshiftAndBurstType78
    tdd-PhysicalChannelOffset
                                           TDD-PhysicalChannelOffset,
    repetitionPeriod
                                           RepetitionPeriod,
    repetitionLength
                                           RepetitionLength,
                                           PagingIndicatorLength,
    pagingIndicatorLength
                                           PICH-Power,
    pICH-Power
                                           ProtocolExtensionContainer { { PICH-768-ParametersItem-CTCH-SetupRgstTDD-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-SetupRqstTDD,
                                           ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
MICH-Parameters-CTCH-SetupRqstTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-TDDOption-Specific-Parameters-CTCH-SetupRqstTDD ::= CHOICE
    hCR-TDD
                                           MICH-HCR-Parameters-CTCH-SetupRgstTDD,
    1CR-TDD
                                           MICH-LCR-Parameters-CTCH-SetupRqstTDD,
    . . . ,
    cHipRate768-TDD
                                           MICH-768-Parameters-CTCH-SetupRqstTDD
```

```
MICH-HCR-Parameters-CTCH-SetupRgstTDD ::= SEQUENCE {
   tdd-ChannelisationCode
                                        TDD-ChannelisationCode.
   timeSlot
                                        TimeSlot,
   midambleshiftAndBurstType
                                        MidambleShiftAndBurstType,
                                        ProtocolExtensionContainer { | MICH-HCR-Parameters-CTCH-SetupRgstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                      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-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 [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
                                        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-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

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Secondary-CCPCH-parameterExtendedList-CTCH-SetupRgstTDD ::= 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.
Secondary-CCPCH-LCR-parameterExtendedList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsLCRinExt)) OF Secondary-CCPCH-LCR-parameterItem-
   -- 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-SetupRgstTDD-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
   . . .
PRACH-Parameters-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRgstTDD }}
PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    ID id-PRACH-ParametersItem-CTCH-SetupRgstTDD
                                            CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRgstTDD
                                                                                                       PRESENCE optional }
    ID id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-SetupRgstTDD PRESENCE optional
PRACH-ParametersItem-CTCH-SetupRgstTDD ::= 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
   iE-Extensions
                                       OPTIONAL,
PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}
RACH-ParameterIE-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
   RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
```

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commonTransportChannelID
                                              CommonTransportChannelID,
    uL-TransportFormatSet
                                              TransportFormatSet, -- For the UL
   iE-Extensions
                                              ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRgstTDD-ExtIEs} }
                                                                                                                              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.
                                      CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                             PRESENCE optional } |
    { ID id-transportlayeraddress
       -- 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-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-ParametersItem-CTCH-SetupRgstTDD
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                              CommonPhysicalChannelID,
   t FCS
                                              TFCS,
    timeslotLCR
                                              TimeSlotLCR,
                                              TDD-ChannelisationCodeLCR,
    tdd-ChannelisationCodeLCR
   midambleShiftLCR
                                              MidambleShiftLCR,
   rACH
                                              RACH-Parameter-CTCH-SetupRqstTDD,
                                              ProtocolExtensionContainer { PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                    OPTIONAL,
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                         CRITICALITY reject
                                                  EXTENSION UARFCN
                                                                         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-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                              CommonPhysicalChannelID768,
    tFCS
                                              TFCS,
   timeslot
                                              TimeSlot,
    tdd-ChannelisationCode768
                                              TDD-ChannelisationCode768,
                                              MaxPRACH-MidambleShifts,
    maxPRACH-MidambleShifts
   pRACH-Midamble
                                              PRACH-Midamble,
                                              RACH-Parameter-CTCH-SetupRqstTDD,
   rACH
                                              iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
PRACH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FPACH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                              CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                              TDD-ChannelisationCodeLCR,
```

```
timeslotLCR
                                                TimeSlotLCR,
    midambleShiftLCR
                                                MidambleShiftLCR,
    fPACH-Power
                                                FPACH-Power.
    iE-Extensions
                                                ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-UARFCNforNt
                           CRITICALITY reject
                                                    EXTENSION UARFCN
                                                                             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-SetupRqstTDD-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,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-RUCCH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
    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 ::= {
     ID id-FACH-ParametersList-CTCH-SetupRsp CRITICALITY ignore TYPE FACH-CommonTransportChannel-InformationResponse
                                                                                                              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 {
   protocolIEs
                      ProtocolIE-Container
                                                  {{CommonTransportChannelSetupFailure-IEs}},
                        ProtocolExtensionContainer {{CommonTransportChannelSetupFailure-Extensions}}
   protocolExtensions
                                                                                                  OPTIONAL,
CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-Cause
                                   CRITICALITY ignore
                                                        TYPE
                                                                                                       PRESENCE mandatory
          ID
                                                        TYPE
                                                                CriticalityDiagnostics
                                                                                                       PRESENCE optional
   . . .
CommonTransportChannelSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
```

```
CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {
    protocolIEs
                            ProtocolIE-Container
                                                        {{CommonTransportChannelReconfigurationReguestFDD-IEs}},
                            ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}}
    protocolExtensions
                                                                                                                          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-ReconfRqstFDD
                                                            CRITICALITY reject TYPE CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE
mandatory },
    . . .
CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE
    secondary-CCPCH-parameters
                                    Secondary-CCPCHList-CTCH-ReconfRqstFDD,
    pRACH-parameters
                                    PRACHList-CTCH-ReconfRqstFDD,
    notUsed-cPCH-parameters
                                    NULL,
Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    fACH-ParametersList-CTCH-ReconfRqstFDD
                                                FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pCH-Parameters-CTCH-ReconfRqstFDD
                                                PCH-Parameters-CTCH-ReconfRqstFDD
                                                                                        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-ReconfRgstFDD
                                                    CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRqstFDD
                                                                                                                             PRESENCE optional },
    . . .
FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRqstFDD }}
FACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
     ID id-FACH-ParametersListIE-CTCH-ReconfRqstFDD
                                                      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,
```

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OPTIONAL,
   toAWS
                                     ToAWS
   toAWE
                                     TOAWE
                                                   OPTIONAL.
   iE-Extensions
                                     ProtocolExtensionContainer
                                                              { FACH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs} }
FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                           CRITICALITY ignore
                                               EXTENSION TnlOos
                                                                PRESENCE optional }.
PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-ReconfRqstFDD }}
PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PCH-ParametersItem-CTCH-ReconfRgstFDD ::= SEQUENCE
   commonTransportChannelID
                                     CommonTransportChannelID,
   pCH-Power
                                     DL-Power
                                                   OPTIONAL,
   toAWS
                                     TOAWS
                                                   OPTIONAL,
                                                   OPTIONAL,
   toAWE
                                     ToAWE
                                                             iE-Extensions
                                     ProtocolExtensionContainer
                                                                                                              OPTIONAL,
   . . .
PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID
         id-TnlOos
                           CRITICALITY ignore
                                               EXTENSION TnlOos
                                                                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,
   iE-Extensions
                                  ProtocolExtensionContainer { PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} }
                                                                                                         OPTIONAL,
PICH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                  CommonPhysicalChannelID,
   mICH-Power
                                 PICH-Power
                                                                                                       OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs} }
                                                                                                       OPTIONAL,
```

```
MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACHList-CTCH-ReconfRgstFDD ::= 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-ReconfRgstFDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRgstFDD }}
PRACH-ParametersListIEs-CTCH-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
PRACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-ParametersItem-CTCH-ReconfRqstFDD
PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    preambleSignatures
                                          PreambleSignatures
                                                                                                                           OPTIONAL,
    allowedSlotFormatInformation
                                          AllowedSlotFormatInformationList-CTCH-ReconfRgstFDD
                                                                                                                           OPTIONAL,
    rACH-SubChannelNumbers
                                          RACH-SubChannelNumbers
                                                                                                                           OPTIONAL,
                                          iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      id-TnlOos
                           CRITICALITY ignore
                                                  EXTENSION TnlOos
                                                                     PRESENCE optional }.
    . . .
AllowedSlotFormatInformationList-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
ReconfRqstFDD
AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE
    rACH-SlotFormat
                                          RACH-SlotFormat,
                                          ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}
```

```
AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-ParametersListIE-CTCH-ReconfRgstFDD
                                                  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,
   aTCH-Power
                                    AICH-Power
                                                   OPTIONAL,
                                    ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                     OPTIONAL,
AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
       ***************
  COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
  *****************
CommonTransportChannelReconfigurationRequestTDD ::= SEOUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                   {{CommonTransportChannelReconfigurationRequestTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestTDD-Extensions}}
                                                                                                                OPTIONAL.
CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                CRITICALITY reject TYPE C-ID
                                                                                                             PRESENCE mandatory }
     ID id-ConfigurationGenerationID
                                                CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                             PRESENCE mandatory }
     optional }
     ID id-PICH-Parameters-CTCH-ReconfRgstTDD
                                                CRITICALITY reject TYPE PICH-Parameters-CTCH-ReconfRgstTDD
                                                                                                             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-ReconfRqstTDD
                                                                                                             PRESENCE optional }.
    . . .
CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-Parameters-CTCH-ReconfRgstTDD
                                                       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-ReconfRgstTDD
   PRESENCE optional }
   { ID id-PLCCH-Parameters-CTCH-ReconfRgstTDD
                                                       CRITICALITY ignore EXTENSION PLCCH-Parameters-CTCH-ReconfRgstTDD
   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-ReconfRqstTDD
                                                           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.
    secondaryCCPCHList
                                   Secondary-CCPCHList-CTCH-ReconfRgstTDD
    iE-Extensions
                                   ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs} } 
                                                                                                                      OPTIONAL,
Secondary-CCPCH-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD
                                                                       CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-
ReconfRastTDD
                   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-ReconfRgstTDD 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-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD
                                                     CRITICALITY reject TYPE Secondary-CCPCHListIE-CTCH-ReconfRqstTDD
                                                                                                                           PRESENCE mandatory }
Secondary-CCPCHListIE-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRgstTDD
Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                       CommonPhysicalChannelID,
    sCCPCH-Power
                                       DL-Power
                                                       OPTIONAL,
                                       ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                           OPTIONAL,
Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-parameterExtendedList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD
    -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
Secondary-CCPCH-LCR-parameterExtendedList-CTCH-ReconfRgstTDD ::= SEOUENCE (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,
    iE-Extensions
                                       ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                         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-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                                                        PRESENCE optional }|
    { ID id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD
                                                            CRITICALITY reject
                                                                                     EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
    { ID id-TnlOos
                                                            CRITICALITY ignore
                                                                                     EXTENSION TnlOos
                                                                                                                        PRESENCE optional },
    . . .
PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                    CommonTransportChannelID,
    toAWS
                                    ToAWS
                                                    OPTIONAL,
                                    TOAWE
                                                    OPTIONAL,
    t.oAWE
                                    ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
PCH-Parameters-CTCH-ReconfRqstTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PCH-Power-LCR-CTCH-ReconfRqstTDD
                                                    CRITICALITY reject
                                                                            EXTENSION DL-Power
                                                                                                                     PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-TnlQos
                                                                                                                     PRESENCE optional },
                                                    CRITICALITY ignore
                                                                            EXTENSION TnlQos
    . . .
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-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   mICH-Power
                                        PICH-Power
                                                                                                                          OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { MICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                          OPTIONAL,
```

```
MICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PLCCH-Parameters-CTCH-ReconfRgstTDD ::= SEQUENCE {
   maxPowerPLCCH
                                        DL-Power,
   iE-Extensions
                                        ProtocolExtensionContainer { { PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                          OPTIONAL
PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-768-Parameters-CTCH-ReconfRqstTDD::= SEQUENCE {
                                    CCTrCH-ID,
                                    Secondary-CCPCH-768-List-CTCH-ReconfRgstTDD
    secondaryCCPCH768List
                                                                                        OPTIONAL,
                                    ProtocolExtensionContainer { { Secondary-CCPCH-768-CTCH-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
Secondary-CCPCH-768-CTCH-ReconfRqstTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CCPCH-768-List-CTCH-ReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-Item-CTCH-ReconfRgstTDD
Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
    sCCPCH-Power
                                        DL-Power
                                                        OPTIONAL,
                                        ProtocolExtensionContainer { { Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
    pICH-Power
                                        PICH-Power
                                                        OPTIONAL,
                                        ProtocolExtensionContainer { { PICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                             OPTIONAL,
PICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
   mICH-Power
                                        PICH-Power
                                                                                                                             OPTIONAL,
                                        ProtocolExtensionContainer { { MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                             OPTIONAL,
```

```
MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
   uPPCHPositionLCR
                               UPPCHPositionLCR
                                                    OPTIONAL,
   uARFCN
                               UARFCN
                                                    OPTIONAL,
   -- Mandatory for 1.28Mcps TDD when using multiple frequencies Corresponds to Nt [15]
                               ProtocolExtensionContainer { { UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD-ExtIEs} }
   OPTIONAL,
   . . .
UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
     ****************
CommonTransportChannelReconfigurationResponse ::= SEQUENCE {
                                                 {{CommonTransportChannelReconfigurationResponse-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{CommonTransportChannelReconfigurationResponse-Extensions}}
   protocolExtensions
                                                                                                           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
                                                 {{CommonTransportChannelReconfigurationFailure-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{CommonTransportChannelReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
```

```
CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::=
    ID
         id-Cause
                                     CRITICALITY ignore
                                                             TYPE
                                                                   Cause
                                                                                                    PRESENCE mandatory } |
    ID
         id-CriticalityDiagnostics
                                     CRITICALITY ignore
                                                             TYPE
                                                                   CriticalityDiagnostics
                                                                                                    PRESENCE optional },
CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    *****************
  COMMON TRANSPORT CHANNEL DELETION REQUEST
  ******************
CommonTransportChannelDeletionRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                   {CommonTransportChannelDeletionReguest-IEs}},
                                                  {{CommonTransportChannelDeletionReguest-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                       OPTIONAL,
CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID
         id-C-ID
                                        CRITICALITY reject
                                                             TYPE C-ID
                                                                                                  PRESENCE mandatory
         id-CommonPhysicalChannelID
     TD
                                        CRITICALITY reject
                                                             TYPE CommonPhysicalChannelID
                                                                                                  PRESENCE mandatory }
   { ID
         id-ConfigurationGenerationID
                                        CRITICALITY reject
                                                             TYPE ConfigurationGenerationID
                                                                                                  PRESENCE mandatory },
   . . .
CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   *****************
  COMMON TRANSPORT CHANNEL DELETION RESPONSE
  *****************
CommonTransportChannelDeletionResponse ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                                {CommonTransportChannelDeletionResponse-IEs}},
                                               {{CommonTransportChannelDeletionResponse-Extensions}}
   protocolExtensions
                       ProtocolExtensionContainer
                                                                                                    OPTIONAL,
CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::=
   { ID
         id-CriticalityDiagnostics
                                     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
                                    CRITICALITY reject
                                                         TYPE BlockingPriorityIndicator
                                                                                                 PRESENCE mandatory
    ID id-ShutdownTimer
                                    CRITICALITY reject
                                                                                                 PRESENCE conditional },
                                                         TYPE ShutdownTimer
   -- 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}},
                                                  {{BlockResourceResponse-Extensions}}
   protocolExtensions ProtocolExtensionContainer
                                                                                                   OPTIONAL,
BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                                     TYPE CriticalityDiagnostics
                                                                                 PRESENCE optional },
                                 CRITICALITY ignore
   . . .
BlockResourceResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ******************
-- BLOCK RESOURCE FAILURE
  BlockResourceFailure ::= SEQUENCE {
                                               {{BlockResourceFailure-IEs}},
   protocolIEs
                       ProtocolIE-Container
```

```
ProtocolExtensionContainer {{BlockResourceFailure-Extensions}}
   protocolExtensions
                                                                                   OPTIONAL,
BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                  CRITICALITY ignore
                                                       TYPE Cause
                                                                                                     PRESENCE mandatory
   { ID id-CriticalityDiagnostics
                                  CRITICALITY ignore
                                                                                                     PRESENCE optional
                                                       TYPE CriticalityDiagnostics
   . . .
BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
  UNBLOCK RESOURCE INDICATION
  *****************
UnblockResourceIndication ::= SEQUENCE {
                                                 {{UnblockResourceIndication-IEs}},
   protocolIEs
                 ProtocolIE-Container
                       ProtocolExtensionContainer
                                               {{UnblockResourceIndication-Extensions}}
   protocolExtensions
                                                                                       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 {
   protocolIEs
                 ProtocolIE-Container
                                                 {{AuditRequiredIndication-IEs}},
                        ProtocolExtensionContainer {{AuditRequiredIndication-Extensions}}
   protocolExtensions
                                                                                                     OPTIONAL,
   . . .
AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
AuditRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
-- AUDIT REQUEST
__ *********************
AuditRequest ::= SEQUENCE {
    protocolIEs
                               ProtocolIE-Container
                                                            {AuditRequest-IEs}},
                                                           {{AuditRequest-Extensions}}
    protocolExtensions
                               ProtocolExtensionContainer
                                                                                           OPTIONAL.
AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Start-Of-Audit-Sequence-Indicator
                                                   CRITICALITY reject TYPE Start-Of-Audit-Sequence-Indicator
                                                                                                                     PRESENCE mandatory },
AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- AUDIT RESPONSE
AuditResponse ::= SEQUENCE {
                                                            {{AuditResponse-IEs}},
    protocolIEs
                               ProtocolIE-Container
                                                           {{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
                                                                                                                          PRESENCE optional
     ID id-Local-Cell-Group-InformationList-AuditRsp
                                                       CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp
    { 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 ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}
Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
```

```
PRESENCE optional }
    { ID
           id-Cell-InformationItem-AuditRsp
                                                    CRITICALITY ignore
                                                                            TYPE Cell-InformationItem-AuditRsp
Cell-InformationItem-AuditRsp ::= SEQUENCE {
                                            C-ID.
    configurationGenerationID
                                            ConfigurationGenerationID,
    resourceOperationalState
                                            ResourceOperationalState,
    availabilitvStatus
                                            AvailabilityStatus,
    local-Cell-ID
                                            Local-Cell-ID,
    primary-SCH-Information
                                            P-SCH-Information-AuditRsp
                                                                                        OPTIONAL,
    secondary-SCH-Information
                                            S-SCH-Information-AuditRsp
                                                                                        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-AuditRsp
    pRACH-InformationList
                                                                                        OPTIONAL,
    rACH-InformationList
                                            RACH-InformationList-AuditRsp
                                                                                        OPTIONAL,
                                            AICH-InformationList-AuditRsp
                                                                                        OPTIONAL,
    aICH-InformationList
    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
                                                                                        OPTIONAL,
                                            SCH-Information-AuditRsp
    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 }
    -- 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.
    { ID id-E-DCH-Resources-Information-AuditRsp
                                                    CRITICALITY ignore EXTENSION E-DCH-Resources-Information-AuditRsp
                                                                                                                                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
                                                    CRITICALITY ignore EXTENSION S-CCPCH-768-InformationList-AuditRsp
                                                                                                                                PRESENCE optional
     ID id-S-CCPCH-768-InformationList-AuditRsp
     ID id-PICH-768-Information-AuditRsp
                                                                        EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional
                                                    CRITICALITY ignore
     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 }
```

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ID id-E-RUCCH-InformationList-AuditRsp
                                              CRITICALITY ignore EXTENSION 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-
AuditRsp
           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-multipleFreq-HS-DSCH-Resources-InformationList-AuditRsp CRITICALITY ignore EXTENSION MultipleFreq-HS-DSCH-Resources-InformationList-
AuditRsp PRESENCE optional } |
-- Applicable to 1.28Mcps TDD when using multiple frequencies. This HS-DSCH Resource Information is for the 2nd and beyond frequencies.
   AuditRsp 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-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }}
P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }}
S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   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 ::= {
   { ID id-P-CCPCH-Information CRITICALITY ignore
                                                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 ::= {
   PRESENCE mandatory }
FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   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 ::= {
   PRESENCE mandatory }
AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}
AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}
SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}
FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   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-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                         CRITICALITY ignore
    { ID id-UARFCNforNt
                                                                        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 ::= SEOUENCE (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 ::= SEOUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-AuditRsp }}
PLCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
     ID id-PLCCH-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                 PRESENCE mandatory }
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 ::= {
    ID id-S-CCPCH-768-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                    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 ::= {
    { ID id-PRACH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                 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 ::= {
    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 ::= {
    ID id-E-RUCCH-768-Information CRITICALITY ignore
                                                           TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                      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,
                                        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 ::= {
     ID id-UPPCH-LCR-InformationItem-AuditRsp CRITICALITY ignore TYPE UPPCH-LCR-InformationItem-AuditRsp
                                                                                                                      PRESENCE mandatory
UPPCH-LCR-InformationItem-AuditRsp ::= SEQUENCE {
    uARFCN
                                        UARFCN
                                                            OPTIONAL,
    uPPCHPositionLCR
                                        UPPCHPositionLCR,
                                        ResourceOperationalState,
    resourceOperationalState
    availabilityStatus
                                        AvailabilityStatus,
                                        ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-AuditRsp-ExtIEs }}
    iE-Extensions
                                                                                                                      OPTIONAL,
    . . .
UPPCH-LCR-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleFreq-HS-DSCH-Resources-InformationList-AuditRsp ::= SEQUENCE (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 ::= {
    { ID id-HSDSCH-Resources-Information-AuditRsp CRITICALITY ignore TYPE HS-DSCH-Resources-Information-AuditRsp PRESENCE mandatory }
```

```
MultipleFreg-E-DCH-Resources-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container {{ MultipleFreg-
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 }
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 }
      ID id-Power-Local-Cell-Group-ID
                                                CRITICALITY ignore
                                                                             EXTENSION Local-Cell-ID
                                                                                                                          PRESENCE optional }
     ID id-HSDPA-Capability
                                                                                                                          PRESENCE optional }
                                                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'.
    { 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
                                                                                                                      PRESENCE conditional } |
                                              CRITICALITY ignore
                                                                          EXTENSION 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
                                                                                                                      PRESENCE optional }
                                                                          EXTENSION E-DCH-TDD-CapacityConsumptionLaw
     ID id-ContinuousPacketConnectivityDTX-DRX-Capability
                                                                                             EXTENSION ContinuousPacketConnectivityDTX-DRX-
                                                                  CRITICALITY ignore
Capability
                   PRESENCE
                               optional }|
                                              CRITICALITY ignore
                                                                                                                      PRESENCE conditional } |
    { ID id-Max-UE-DTX-Cycle
                                                                          EXTENSION Max-UE-DTX-Cycle
    -- 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-
                   PRESENCE
                               optional }|
Capability
     ID id-MIMO-Capability
                                              CRITICALITY ignore
                                                                          EXTENSION MIMO-Capability
                                                                                                                      PRESENCE optional }
     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'.
     ID id-SixteenOAM-UL-Capability
                                              CRITICALITY ignore
                                                                          EXTENSION SixteenOAM-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 },
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 ::= {
    Local-Cell-Group-InformationItem-AuditRsp ::= 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-AuditRsp-ExtIEs}}
    iE-Extensions
                                                                                                                                  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
                                                                                                                      PRESENCE optional },
                                              CRITICALITY ignore
                                                                          EXTENSION E-DCH-TDD-CapacityConsumptionLaw
```

```
Power-Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-
Group-InformationItemIE-AuditRsp }}
Power-Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::=
          id-Power-Local-Cell-Group-InformationItem-AuditRsp
                                                                  CRITICALITY
                                                                                 ignore
                                                                                            TYPE Power-Local-Cell-Group-InformationItem-
              PRESENCE
                       mandatory}
AuditRsp
Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
   power-Local-Cell-Group-ID
                                            Local-Cell-ID,
   maximumDL-PowerCapability
                                            MaximumDL-PowerCapability,
   iE-Extensions
                                            ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}
   OPTIONAL,
   . . .
Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- AUDIT FAILURE
  AuditFailure ::= SEQUENCE {
                                                    {{AuditFailure-IEs}},
   protocolIEs
                         ProtocolIE-Container
                                                  {{AuditFailure-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                    OPTIONAL,
AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                        CRITICALITY ignore
                                                                  TYPE Cause
                                                                                                             PRESENCE mandatory
    ID id-CriticalityDiagnostics
                                        CRITICALITY ignore
                                                                  TYPE CriticalityDiagnostics
                                                                                                             PRESENCE optional
AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- COMMON MEASUREMENT INITIATION REQUEST
__ *******************************
CommonMeasurementInitiationRequest ::= SEQUENCE {
                                                    {{CommonMeasurementInitiationRequest-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer
                                                   {{CommonMeasurementInitiationRequest-Extensions}}
                                                                                                             OPTIONAL,
```

```
CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Measurement.ID
                                              CRITICALITY reject TYPE MeasurementID
                                                                                                          PRESENCE mandatory
     ID id-CommonMeasurementObjectType-CM-Rqst
                                              CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst
                                                                                                          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
                                                     CRITICALITY reject
                                                                           EXTENSION RTWP-CellPortion-ReportingIndicator
   PRESENCE optional \
   EXTENSION Reference-ReceivedTotalWideBandPowerReporting
   PRESENCE optional },
CommonMeasurementObjectType-CM-Rgst ::= CHOICE {
   cell
                                Cell-CM-Rast,
   rACH
                                RACH-CM-Rast,
   notUsed-cPCH
                                NULL,
   extension-CommonMeasurementObjectType-CM-Rgst
                                                  Extension-CommonMeasurementObjectType-CM-Rgst
Extension-CommonMeasurementObjectType-CM-Rqst ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RqstIE }}
Extension-CommonMeasurementObjectType-CM-RqstIE NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
Cell-CM-Rast ::= SEQUENCE {
   c-ID
                                C-ID,
   timeSlot
                                TimeSlot
                                          OPTIONAL, -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
                                ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs} }
   iE-Extensions
                                                                                                        OPTIONAL.
CellItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                                              CRITICALITY reject EXTENSION TimeSlotLCR
   { ID id-TimeSlotLCR-CM-Rqst
                                                                                                            PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
   {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
```

```
RACH-CM-Rqst ::= SEQUENCE {
                                   C-ID.
   commonTransportChannelID
                                   CommonTransportChannelID,
                                   ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs} } 
   iE-Extensions
                                                                                                                OPTIONAL,
RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerLocalCellGroup-CM-Rqst ::= SEQUENCE {
   powerLocalCellGroupID
                                  Local-Cell-ID,
                                  ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rgst-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 ::= {
                                                                                                                   PRESENCE mandatory
     ID id-MeasurementID
                                                  CRITICALITY ignore
                                                                         TYPE MeasurementID
     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
                                                                                                                   PRESENCE optional },
                                                  CRITICALITY ignore
CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-CommonMeasurementAccuracy
                                                  CRITICALITY ignore
                                                                         EXTENSION CommonMeasurementAccuracy
                                                                                                                        PRESENCE 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 ::= {
    { ID id-Power-Local-Cell-Group-choice-CM-Rsp
                                               CRITICALITY ignore
                                                                        TYPE PowerLocalCellGroup-CM-Rsp
                                                                                                              PRESENCE mandatory }
Cell-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                  CommonMeasurementValue,
                                  ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                                              OPTIONAL,
CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
   iE-Extensions
                                  ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rsp-ExtIEs}}
                                                                                                                OPTIONAL,
PowerLocalCellGroup-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     COMMON MEASUREMENT INITIATION FAILURE
  ************************
CommonMeasurementInitiationFailure ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                     {{CommonMeasurementInitiationFailure-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                                OPTIONAL,
    . . .
```

```
CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                     CRITICALITY ignore
                                                                TYPE MeasurementID
                                                                                                              PRESENCE mandatory
     ID id-Cause
                                     CRITICALITY ignore
                                                                                                              PRESENCE mandatory
                                                                TYPE Cause
     ID id-CriticalityDiagnostics
                                     CRITICALITY ignore
                                                                                                              PRESENCE optional },
                                                                TYPE CriticalityDiagnostics
CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  COMMON MEASUREMENT REPORT
__ *********************
CommonMeasurementReport ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{CommonMeasurementReport-IEs}},
                                                    {{CommonMeasurementReport-Extensions}}
                          ProtocolExtensionContainer
                                                                                                              OPTIONAL,
   protocolExtensions
CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                 CRITICALITY ignore
                                                                        TYPE MeasurementID
                                                                                                                   PRESENCE mandatory
     ID id-CommonMeasurementObjectType-CM-Rprt
                                                 CRITICALITY ignore
                                                                        TYPE CommonMeasurementObjectType-CM-Rprt
                                                                                                                   PRESENCE mandatory
                                                 CRITICALITY ignore
                                                                                                                   PRESENCE optional },
     ID id-SFN
                                                                        TYPE SFN
CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::=
     ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore
                                                                        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 ::= {
    TYPE PowerLocalCellGroup-CM-Rprt
                                                                                                              PRESENCE mandatory }
Cell-CM-Rprt ::= SEQUENCE {
    commonMeasurementValueInformation
                                     CommonMeasurementValueInformation,
```

```
ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
   iE-Extensions
                                                                                                      OPTIONAL,
CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation CommonMeasurementValueInformation,
                                  iE-Extensions
                                                                                                         OPTIONAL,
   . . .
RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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}},
                     ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-MeasurementID
                             CRITICALITY ignore
                                                                                   PRESENCE mandatory },
                                                           TYPE MeasurementID
CommonMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- COMMON MEASUREMENT FAILURE INDICATION
```

```
__ ******************
CommonMeasurementFailureIndication ::= SEOUENCE {
   protocolIEs
                              ProtocolIE-Container
                                                          [{CommonMeasurementFailureIndication-IEs}},
   protocolExtensions
                              ProtocolExtensionContainer
                                                         {{CommonMeasurementFailureIndication-Extensions}}
                                                                                                                      OPTIONAL.
CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
                                  CRITICALITY ignore
     ID id-MeasurementID
                                                            TYPE MeasurementID
                                                                                       PRESENCE mandatory } |
     ID id-Cause
                                  CRITICALITY ignore
                                                            TYPE Cause
                                                                                       PRESENCE mandatory },
    . . .
CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- CELL SETUP REOUEST FDD
      *****************
CellSetupRequestFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                     {{CellSetupRequestFDD-IEs}},
                          ProtocolExtensionContainer
                                                     {{CellSetupRequestFDD-Extensions}}
                                                                                           OPTIONAL,
   protocolExtensions
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
    { ID id-T-Cell
                                                                                                                         PRESENCE mandatory
                                                            CRITICALITY reject TYPE T-Cell
    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
                                                                                                                         PRESENCE optional } |
                                                            CRITICALITY reject TYPE Closedlooptimingadjustmentmode
     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-SetupRqstFDD
                                                                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-SetupRqstFDD
                                                                CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-SetupRqstFDD
                                                                                                                                             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-SetupRgstFDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstFDD
    PRESENCE optional }
    { ID id-CellPortion-InformationList-Cell-SetupRgstFDD
                                                             CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-SetupRqstFDD
    PRESENCE optional }
    { ID id-MIMO-PilotConfiguration
                                                             CRITICALITY reject EXTENSION MIMO-PilotConfiguration
                                                                                                                           PRESENCE optional },
    . . .
Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE
    n-INSYNC-IND
                            N-INSYNC-IND,
    n-OUTSYNC-IND
                            N-OUTSYNC-IND,
                            T-RLFAILURE,
    t-RLFAILURE
                            ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-SetupRqst-ExtIEs} }
                                                                                                                       OPTIONAL,
    iE-Extensions
Synchronisation-Configuration-Cell-SetupRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRgstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
```

```
SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Information-Cell-SetupRgstFDD ::= 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-SetupRgstFDD }}
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
    iE-Extensions
                                            ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs} }
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,
                                            ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    bCH-Power
                                            DL-Power,
                                            ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs} }
   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-SetupRqstFDD-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,
   iE-Extensions
                                       ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                        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-SetupRqstFDD-ExtIEs} }
                                                                                                                        OPTIONAL,
CellPortion-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- CELL SETUP REQUEST TDD
```

\_\_ \*

```
CellSetupRequestTDD ::= SEOUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                        {{CellSetupRequestTDD-IEs}},
    protocolExtensions
                           ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}}
                                                                                               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 Speial Time Slot [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-SetupRgst
                                                            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
    { ID id-PCCPCH-Information-Cell-SetupRqstTDD
                                                            CRITICALITY reject TYPE PCCPCH-Information-Cell-SetupRqstTDD
                                                                                                                               PRESENCE optional } |
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
    { ID id-TimeSlotConfigurationList-Cell-SetupRqstTDD
                                                            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-SetupRgstTDD
                                                                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 1.28Mcps 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 [19].
    { ID id-DwPCH-LCR-Information-Cell-SetupRqstTDD
                                                               CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-SetupRqstTDD
    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-SetupRostTDD
                                                            CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRgstTDD
    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
                         -- Applicable to 1.28Mcps TDD only
    PRESENCE optional }
    { ID id-PCCPCH-768-Information-Cell-SetupRgstTDD
                                                            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-SetupRqstTDD
                                                            CRITICALITY reject EXTENSION SCH-768-Information-Cell-SetupRqstTDD
    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-SetupRqstTDD-ExtlEs 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-SetupRqstTDD-PSCH ::= CHOICE
                                     Case1-Cell-SetupRgstTDD,
    case1
    case2
                                     Case2-Cell-SetupRgstTDD,
    . . .
Case1-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlot
   iE-Extensions
                                     ProtocolExtensionContainer { CaselItem-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                OPTIONAL,
Case1Item-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
Case2-Cell-SetupRqstTDD ::= SEQUENCE
```

```
sCH-TimeSlot
                                        SCH-TimeSlot,
    iE-Extensions
                                        ProtocolExtensionContainer { Case2Item-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                       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
PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
TimeSlotConfigurationList-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-SetupRqstTDD
TimeSlotConfigurationItem-Cell-SetupRgstTDD ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-SetupRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                      OPTIONAL,
TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD
                                                                CRITICALITY reject EXTENSION CellParameterID
                                                                                                                       PRESENCE optional \, --
Applicable only to for MBSFN only mode
    . . .
TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
    iE-Extensions
                                            ProtocolExtensionContainer { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs} }
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Time-Slot-Parameter-ID
                                                            CRITICALITY reject
                                                                                         EXTENSION CellParameterID
                                                                                                                             PRESENCE optional },
```

```
PCCPCH-LCR-Information-Cell-SetupRgstTDD ::= 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-SetupRqstTDD-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,
                                    ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                           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,
   iE-Extensions
                                            ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                                       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,
                                            ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
IPDLParameter-Information-LCR-Cell-SetupRqstTDD-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,
   iE-Extensions
                                        ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-SetupRgstTDD-ExtIEs} }
                                                                                                                       OPTIONAL.
PCCPCH-768-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SCH-768-Information-Cell-SetupRgstTDD ::= SEQUENCE {
   commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
   syncCaseIndicator
                                        SyncCaseIndicator-Cell-SetupRgstTDD-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-
SetupRastTDD
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE
                                                      UARFCN,
   -- This IE indicates the frequency of Secondary frequency
   timeSlotConfigurationList-LCR-Cell-SetupRqstTDD
                                                      TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,
   -- This IE indicates the Time Slot configuration of Secondary frequency
                                        ProtocolExtensionContainer { { Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
  CELL SETUP RESPONSE
  ****************
CellSetupResponse ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                       {{CellSetupResponse-IEs}},
                                                      {{CellSetupResponse-Extensions}}
   protocolExtensions
                             ProtocolExtensionContainer
                                                                                                          OPTIONAL,
```

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```
CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                   CRITICALITY ignore
                                                            TYPE CriticalityDiagnostics
                                                                                                        PRESENCE optional },
   . . .
CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- CELL SETUP FAILURE
  *****************
CellSetupFailure ::= SEQUENCE {
                        ProtocolIE-Container
                                                  {{CellSetupFailure-IEs}},
   protocolIEs
                        ProtocolExtensionContainer {{CellSetupFailure-Extensions}}
   protocolExtensions
                                                                                      OPTIONAL,
   . . .
CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                                                TYPE Cause
                                       CRITICALITY ignore
                                                                                                          PRESENCE mandatory } |
     ID id-CriticalityDiagnostics
                                       CRITICALITY ignore
                                                                TYPE CriticalityDiagnostics
                                                                                                          PRESENCE optional },
CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
__ *********************
-- CELL RECONFIGURATION REQUEST FDD
  *****************
CellReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                                                  {{CellReconfigurationRequestFDD-IEs}},
               ProtocolIE-Container
   protocolExtensions ProtocolExtensionContainer {{CellReconfigurationRequestFDD-Extensions}}
                                                                                                          OPTIONAL,
CellReconfigurationRequestFDD-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-MaximumTransmissionPower
                                                             CRITICALITY reject TYPE MaximumTransmissionPower
   PRESENCE optional } |
         id-Synchronisation-Configuration-Cell-ReconfRqst
                                                             CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
   PRESENCE optional }
   { ID id-PrimarySCH-Information-Cell-ReconfRqstFDD
                                                             CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
   PRESENCE optional } |
```

```
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-ReconfRqstFDD
   PRESENCE optional } |
          id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD
                                                                CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-ReconfRqstFDD
   PRESENCE optional } |
          id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
                                                                CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
   PRESENCE optional },
CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
          id-IPDLParameter-Information-Cell-ReconfRgstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRgstFDD
   PRESENCE optional }
   PRESENCE optional }
    { ID id-MIMO-PilotConfiguration
                                                        CRITICALITY reject EXTENSION MIMO-PilotConfiguration
   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,
   iE-Extensions
                                         ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} }
                                                                                                                          OPTIONAL,
PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondarySCH-Information-Cell-ReconfRgstFDD ::= SEOUENCE
   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-ReconfRgstFDD-ExtIEs} }
                                                                                                                         OPTIONAL.
PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondaryCPICH-InformationList-Cell-ReconfRgstFDD ::= SEOUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container { SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
   SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD
       PRESENCE mandatory }
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE
   commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   secondaryCPICH-Power
                                        DL-Power,
                                        ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
   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-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-information-Cell-ReconfRqstFDD ::= 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
                                         IPDLParameter-Information-Cell-ReconfRqstFDD-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 ::= {
   { ID id-CellPortion-InformationItem-Cell-ReconfRgstFDD CRITICALITY reject TYPE CellPortion-InformationItem-Cell-ReconfRgstFDD
   PRESENCE
              mandatory}
CellPortion-InformationItem-Cell-ReconfRqstFDD::= SEQUENCE {
   cellPortionID
                                         CellPortionID,
   maximumTransmissionPowerforCellPortion MaximumTransmissionPower,
                                         ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
CellPortion-InformationItem-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      *****************
-- CELL RECONFIGURATION REQUEST TDD
__ ********************************
CellReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                    {{CellReconfigurationRequestTDD-IEs}},
                       ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
CellReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                        CRITICALITY reject TYPE C-ID
                                                                                                                    PRESENCE mandatory } |
     ID id-ConfigurationGenerationID
                                                                                                                    PRESENCE mandatory }
                                                        CRITICALITY reject TYPE ConfigurationGenerationID
     ID id-Synchronisation-Configuration-Cell-ReconfRqst
                                                       CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst PRESENCE
optional }|
     ID id-TimingAdvanceApplied
                                                        CRITICALITY reject TYPE TimingAdvanceApplied
                                                                                                                    PRESENCE optional
    { ID id-SCH-Information-Cell-ReconfRqstTDD
                                                        CRITICALITY reject TYPE SCH-Information-Cell-ReconfRqstTDD
                                                                                                                    PRESENCE optional }
   -- Applicable to 3.84Mcps TDD only
   { ID id-PCCPCH-Information-Cell-ReconfRgstTDD
                                                        CRITICALITY reject TYPE PCCPCH-Information-Cell-ReconfigstTDD 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 [19].
     ID id-MaximumTransmissionPower
                                                        CRITICALITY reject TYPE MaximumTransmissionPower
                                                                                                                    PRESENCE optional }
                                                                                                                    PRESENCE optional }
    ID id-DPCHConstant
                                                        CRITICALITY reject TYPE ConstantValue
```

```
-- 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.
    { ID id-TimeSlotConfigurationList-Cell-ReconfRgstTDD
                                                           CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-ReconfRqstTDD
                                                                                                                                    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-ReconfRgstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD
    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 id-DwPCH-LCR-Information-Cell-ReconfRgstTDD
                                                               CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-ReconfRgstTDD
    PRESENCE optional }
                         -- Applicable to 1.28Mcps TDD only
    { ID id-IPDLParameter-Information-Cell-ReconfRgstTDD
                                                               CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstTDD
    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-ReconfRqstTDD
                                                               CRITICALITY reject EXTENSION SCH-768-Information-Cell-ReconfRqstTDD
    PRESENCE optional } -- Applicable to 7.68Mcps TDD only
    { ID id-PCCPCH-768-Information-Cell-ReconfRgstTDD
                                                               CRITICALITY reject EXTENSION PCCPCH-768-Information-Cell-ReconfRgstTDD
    PRESENCE optional }
                         -- Applicable to 7.68Mcps TDD only
    { ID id-UARFCN-Adjustment
                                                               CRITICALITY reject EXTENSION UARFCN-Adjustment
    PRESENCE optional }, -- Applicable to 1.28Mcps TDD when using multiple frequencies
SCH-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                           CommonPhysicalChannelID,
    sCH-Power
                                           DL-Power,
                                           ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRqstTDD-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
                                           ProtocolExtensionContainer { { PCCPCH-Information-Cell-ReconfRgstTDD-ExtIEs} }
                                                                                                                              OPTIONAL,
PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-ReconfRqstTDD
```

. . .

```
TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
   timeSlot
                                         TimeSlot.
   timeSlotStatus
                                          TimeSlotStatus.
   timeSlotDirection
                                         TimeSlotDirection,
   iE-Extensions
                                          ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs} }
                                                                                                                               OPTIONAL.
TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MBSFN-Cell-ParameterID-Cell-ReconfRqstTDD
                                                                                                                 PRESENCE optional },
                                                             CRITICALITY reject EXTENSION CellParameterID
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
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-ReconfRgstTDD-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-ReconfRgstTDD ::= SEQUENCE {
   iPDL-TDD-Parameters-LCR
                                         IPDL-TDD-Parameters-LCR
                                                                     OPTIONAL,
   iPDL-Indicator
                                          IPDL-Indicator,
   iE-Extensions
                                          OPTIONAL,
```

```
IPDLParameter-Information-LCR-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SCH-768-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
                                          CommonPhysicalChannelID768,
   commonPhysicalChannelID768
   sCH-Power
                                          DL-Power,
                                          iE-Extensions
PSCH-768-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-768-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
                                          CommonPhysicalChannelID768,
    commonPhysicalChannelID768
   pCCPCH-Power
                                          PCCPCH-Power,
   iE-Extensions
                                          ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-ReconfRgstTDD-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-ReconfRqstTDD,
    . . .
Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE
    -- This IE indicates the frequency of Secondary frequency to add
   timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
                                                         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 {
    uARFCN
                                                          UARFCN,
```

```
-- This IE indicates the frequency of Secondary frequency to modify
   timeSlotConfigurationList-LCR-Cell-ReconfRgstTDD
                                                      TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD,
   -- This IE indicates the Time Slot reconfiguration of Secondary frequency
   iE-Extensions
                                       ProtocolExtensionContainer { { Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} }
   OPTIONAL,
   . . .
Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD ::= SEQUENCE
   uARFCN
                                                      UARFCN,
   -- This IE indicates the frequency of Secondary Frequency to delete
   iE-Extensions
                                       ProtocolExtensionContainer { { Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD-ExtIEs} }
   OPTIONAL,
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
  CELL RECONFIGURATION RESPONSE
  *****************
CellReconfigurationResponse ::= SEQUENCE {
   protocolIEs
                                                      {{CellReconfigurationResponse-IEs}},
                            ProtocolIE-Container
   protocolExtensions
                            ProtocolExtensionContainer {{CellReconfigurationResponse-Extensions}}
                                                                                                           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}},
                                                 {{CellReconfigurationFailure-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                           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 {
   protocolIEs
                ProtocolIE-Container
                                                   {{CellDeletionRequest-IEs}},
   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 {
                                                   {{CellDeletionResponse-IEs}},
   protocolIEs
                  ProtocolIE-Container
   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 ::= SEOUENCE {
   protocolIEs
               ProtocolIE-Container
                                                {{ResourceStatusIndication-IEs}},
                                               {{ResourceStatusIndication-Extensions}}
   protocolExtensions
                     ProtocolExtensionContainer
                                                                                                   OPTIONAL,
ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
     PRESENCE mandatory } |
    ID id-Cause
                                         CRITICALITY ignore TYPE Cause
                                                                                                     PRESENCE optional },
   . . .
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-ResourceStatusInd OPTIONAL,
   local-Cell-Group-InformationList
   iE-Extensions
                                     ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} } 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 ::= {
   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-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-Power-Local-Cell-Group-ID
                                                CRITICALITY ignore
                                                                        EXTENSION Local-Cell-ID
                                                                                                                          PRESENCE optional }
           id-HSDPA-Capability
                                                CRITICALITY ignore
                                                                        EXTENSION HSDPA-Capability
                                                                                                                          PRESENCE optional
     TD
           id-E-DCH-Capability
                                                CRITICALITY ignore
                                                                        EXTENSION E-DCH-Capability
                                                                                                                          PRESENCE optional }
     TD
         id-E-DCH-TTI2ms-Capability
                                                CRITICALITY ignore
                                                                        EXTENSION E-DCH-TTI2ms-Capability
                                                                                                                          PRESENCE conditional }
     ID
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
           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-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-E-DCH-CapacityConsumptionLaw
                                                                        EXTENSION E-DCHCapacityConsumptionLaw
     ID
                                                CRITICALITY ignore
                                                                                                                       PRESENCE optional }
                                                                                                                       PRESENCE optional } |
     TD
           id-F-DPCH-Capability
                                                CRITICALITY ignore
                                                                        EXTENSION F-DPCH-Capability
           id-E-DCH-TDD-CapacityConsumptionLaw
                                                    CRITICALITY ignore
                                                                            EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                                                                                          PRESENCE optional }
           id-ContinuousPacketConnectivityDTX-DRX-Capability
                                                                        CRITICALITY ignore
                                                                                                                    EXTENSION
     TD
ContinuousPacketConnectivityDTX-DRX-Capability
                                                                    optional }|
                                                        PRESENCE
           id-Max-UE-DTX-Cycle
                                                                        EXTENSION Max-UE-DTX-Cvcle
                                                CRITICALITY ignore
                                                                                                                       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-MIMO-Capability
                                                                        EXTENSION MIMO-Capability
                                                CRITICALITY ignore
                                                                                                                       PRESENCE optional }
           id-SixtyfourOAM-DL-Capability
                                                                        EXTENSION SixtyfourOAM-DL-Capability
     ID
                                                CRITICALITY ignore
                                                                                                                       PRESENCE optional
     ID
           id-MBMS-Capability
                                                CRITICALITY ignore
                                                                        EXTENSION MBMS-Capability
                                                                                                                       PRESENCE optional
           id-Enhanced-FACH-Capability
                                                CRITICALITY ignore
                                                                        EXTENSION Enhanced-FACH-Capability
                                                                                                                       PRESENCE optional }
     TD
     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'.
                                                                        EXTENSION SixteenOAM-UL-Capability
     ID
           id-SixteenOAM-UL-Capability
                                                CRITICALITY ignore
                                                                                                                       PRESENCE optional }
           id-HSDSCH-MACdPDU-SizeCapability
                                                                        EXTENSION HSDSCH-MACdPDU-SizeCapability
     ID
                                                CRITICALITY ignore
                                                                                                                       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 },
```

```
Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(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,
   iE-Extensions
                                            ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs} }
   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
                                                                                                             PRESENCE optional },
                                            CRITICALITY ignore
                                                                  EXTENSION E-DCH-TDD-CapacityConsumptionLaw
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-
                      PRESENCE mandatory }
ResourceStatusInd
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
   local-Cell-Group-InformationList
                                        Local-Cell-Group-InformationList2-ResourceStatusInd OPTIONAL,
   cCP-InformationList
                                        CCP-InformationList-ResourceStatusInd
                                                                                    OPTIONAL,
   cell-InformationList
                                        Cell-InformationList-ResourceStatusInd
                                                                                    OPTIONAL,
                                        iE-Extensions
                                                                                                                     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-
InformationItemIE2-ResourceStatusInd }}
Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    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 OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw
    maximum-DL-PowerCapability
                                              MaximumDL-PowerCapability
                                                                                     OPTIONAL,
    minSpreadingFactor
                                              MinSpreadingFactor
                                                                                     OPTIONAL,
   minimumDL-PowerCapability
                                              MinimumDL-PowerCapability
                                                                                     OPTIONAL,
                                          ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-ReferenceClockAvailability
                                                                         EXTENSION ReferenceClockAvailability
                                                                                                                     PRESENCE optional }
                                              CRITICALITY ignore
           id-HSDPA-Capability
                                                                         EXTENSION HSDPA-Capability
                                                                                                                     PRESENCE optional
     ID
                                              CRITICALITY ignore
          id-E-DCH-Capability
                                                                         EXTENSION E-DCH-Capability
                                                                                                                     PRESENCE optional }
     ID
                                              CRITICALITY ignore
           id-E-DCH-TTI2ms-Capability
                                              CRITICALITY ignore
                                                                         EXTENSION E-DCH-TTI2ms-Capability
                                                                                                                     PRESENCE conditional } |
     TD
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
           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-HARQ-Combining-Capability
                                                         CRITICALITY ignore
                                                                                     EXTENSION E-DCH-HARQ-Combining-Capability
                                                                                                                                    PRESENCE
    conditional } |
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
           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-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-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-ContinuousPacketConnectivityHS-SCCH-less-Capability
                                                                     CRITICALITY ignore
                                                                                                                EXTENSION
ContinuousPacketConnectivityHS-SCCH-less-Capability
                                                          PRESENCE
                                                                     optional }|
           id-MIMO-Capability
                                              CRITICALITY ignore
                                                                     EXTENSION MIMO-Capability
                                                                                                                     PRESENCE optional }
           id-SixtyfourOAM-DL-Capability
                                                                     EXTENSION SixtyfourOAM-DL-Capability
                                                                                                                     PRESENCE optional } |
     ID
                                              CRITICALITY ignore
           id-MBMS-Capability
                                                                     EXTENSION MBMS-Capability
                                                                                                                     PRESENCE optional
     ID
                                              CRITICALITY ignore
           id-Enhanced-FACH-Capability
     ID
                                              CRITICALITY ignore
                                                                     EXTENSION Enhanced-FACH-Capability
                                                                                                                     PRESENCE optional }
           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-SixteenQAM-UL-Capability
                                            CRITICALITY ignore
                                                                   EXTENSION SixteenQAM-UL-Capability
                                                                                                                 PRESENCE optional }
           id-HSDSCH-MACdPDU-SizeCapability
                                                                   EXTENSION HSDSCH-MACdPDU-SizeCapability
     ID
                                            CRITICALITY ignore
                                                                                                                 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 },
Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(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
                                                                                                             PRESENCE optional },
                                            CRITICALITY ignore
                                                                   EXTENSION E-DCH-TDD-CapacityConsumptionLaw
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 }}
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Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
Cell-InformationItem-ResourceStatusInd ::= SEOUENCE {
    resourceOperationalState
                                          ResourceOperationalState
                                                                                         OPTIONAL,
    availabilitvStatus
                                          AvailabilityStatus
                                                                                         OPTIONAL,
    primary-SCH-Information
                                          P-SCH-Information-ResourceStatusInd
                                                                                         OPTIONAL, -- FDD only
                                                                                         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
    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,
    aTCH-InformationList
                                          ATCH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL, -- FDD only
   notUsed-1-pCPCH-InformationList
                                          NULL
                                                                                         OPTIONAL,
   notUsed-2-cPCH-InformationList
                                                                                         OPTIONAL,
                                          NULL
   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 } |
    { ID id-S-CCPCH-InformationListExt-ResourceStatusInd
                                                              CRITICALITY ignore EXTENSION 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 MultipleFreq-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 } |
```

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{ 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
                                                                                                               EXTENSION UPPCH-LCR-
                                                                           CRITICALITY ignore
                                                                       -- Applicable to 1.28Mcps TDD only
InformationList-ResourceStatusInd
                                                 PRESENCE optional }
    { ID id-multipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd
                                                                           CRITICALITY ignore
                                                                                                               EXTENSION MultipleFreg-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 ::= SEOUENCE (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 }}
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P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}
BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
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 ::= SEOUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-
ResourceStatusInd }}
FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory }
PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (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 ::= {
    { ID id-SCH-Information CRITICALITY ignore
                                             TYPE Common-PhysicalChannel-Status-Information
                                                                                                             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 ::= {
    PRESENCE mandatory }
DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }}
DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-DwPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                             PRESENCE mandatory }
HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
   resourceOperationalState
                                    ResourceOperationalState,
   availabilityStatus
                                    AvailabilityStatus,
   iE-Extensions
                                    ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }}
                                                                                                                          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 ::= SEQUENCE (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 ::= {
   {ID id-UARFCNforNt
                         CRITICALITY ignore
                                                EXTENSION UARFCN
                                                                      PRESENCE optional },
   -- Applicable to 1.28Mcps TDD when using multiple frequencies.
   . . .
```

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PLCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-
ResourceStatusInd }}
PLCCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PLCCH-Information-ResourceStatusInd CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                            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 ::= SEOUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-768-InformationItemIE-
ResourceStatusInd }}
PRACH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    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 ::= {
                                    CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                             PRESENCE mandatory }
    { ID id-E-RUCCH-768-Information
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 ::= SEOUENCE {
                                    UARFCN,
   resourceOperationalState
                                    ResourceOperationalState,
   availabilityStatus
                                    AvailabilityStatus,
                                    Cause
                                                       OPTIONAL,
   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 {
   uARFCN
                                   UARFCN
                                                     OPTIONAL.
   uPPCHPositionLCR
                                   UPPCHPositionLCR,
   resourceOperationalState
                                   ResourceOperationalState,
   availabilityStatus
                                   AvailabilityStatus,
   iE-Extensions
                                   ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs }}
                                                                                                                 OPTIONAL,
   . . .
UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MultipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd ::= SEQUENCE (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,
   iE-Extensions
                                   ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs} }
   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-
Container{{ MultipleFreg-E-DCH-Resources-InformationItem-ResourceStatusInd }}
   --Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreg-E-DCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   mandatory }
  ******************
-- SYSTEM INFORMATION UPDATE REQUEST
   SystemInformationUpdateRequest ::= SEQUENCE
                                                  {{SystemInformationUpdateRequest-IEs}},
   protocolIEs
                        ProtocolIE-Container
                                                 {{SystemInformationUpdateRequest-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                         OPTIONAL,
   . . .
SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                                                                              PRESENCE mandatory } |
                                                        CRITICALITY reject TYPE C-ID
                                                                                                              PRESENCE optional }
     ID id-BCCH-ModificationTime
                                                        CRITICALITY reject TYPE BCCH-ModificationTime
     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,
   iE-Extensions
                                   ProtocolExtensionContainer { { MIB-SB-SIB-InformationItem-SystemInfoUpdateRgst-ExtIEs} }
                                                                                                                      OPTIONAL,
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
DeletionIndicator-SystemInfoUpdate ::= CHOICE {
   no-Deletion
                                   No-Deletion-SystemInfoUpdate,
   yes-Deletion
                                   NULL
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,
   iE-Extensions
                                        ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs} } 
                                                                                                              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
                                        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
                                        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"
                                        ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ********************
-- SYSTEM INFORMATION UPDATE RESPONSE
__ *********************
SystemInformationUpdateResponse ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                    {{SystemInformationUpdateResponse-IEs}},
                         ProtocolExtensionContainer {{SystemInformationUpdateResponse-Extensions}}
   protocolExtensions
                                                                                                            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}},
                                                     {{SystemInformationUpdateFailure-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                 OPTIONAL,
SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= {
                                                                                                                 PRESENCE mandatory } |
     ID id-Cause
                                          CRITICALITY ignore
                                                                     TYPE Cause
     ID id-CriticalityDiagnostics
                                          CRITICALITY ignore
                                                                     TYPE CriticalityDiagnostics
                                                                                                                 PRESENCE optional },
    . . .
SystemInformationUpdateFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK SETUP REQUEST FDD
         RadioLinkSetupRequestFDD ::= SEQUENCE {
    protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkSetupRequestFDD-IEs}},
                                                     {{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-SetupRqstFDD
                                                                                                                          PRESENCE mandatory
} |
                                                                                                                          PRESENCE optional } |
     ID id-DL-DPCH-Information-RL-SetupRqstFDD
                                                          CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
     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
                                                                                                                 PRESENCE optional }
                                                  CRITICALITY reject EXTENSION HSDSCH-FDD-Information
```

```
{ ID id-HSDSCH-RNTI
                                                                                                                        PRESENCE conditional } |
                                                    CRITICALITY reject EXTENSION HSDSCH-RNTI
    -- 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-
Information
                    PRESENCE optional }
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                    CRITICALITY reject
                                                                                             EXTENSION ContinuousPacketConnectivityHS-SCCH-less-
                    PRESENCE optional },
Information
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} } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-DPC-Mode
                                                    CRITICALITY reject EXTENSION DPC-Mode
                                                                                                                              PRESENCE optional } |
     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-SetupRqstFDD ::= SEQUENCE {
    t FCS
                                            TFCS.
    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,
```

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limitedPowerIncrease
                                          LimitedPowerIncrease,
   innerLoopDLPCStatus
                                          InnerLoopDLPCStatus,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                          PowerOffset,
                                          PowerOffset.
   pO2-ForTPC-Bits
   pO3-ForPilotBits
                                          PowerOffset.
   iE-Extensions
                                          ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
   ProtocolIE-Single-Container{{    RL-InformationItemIE-RL-SetupRqstFDD }}
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
                                      FDD-DL-CodeInformation,
   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-SetupRgstFDD-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 }
     ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE
optional }|
```

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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
                                                       CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
                                                                                                                   PRESENCE optional
     ID id-RL-Specific-E-DCH-Info
     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 },
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,
                                               ProtocolExtensionContainer { { E-DPCH-Information-RL-SetupRgstFDD-ExtIEs} } }
    iE-Extensions
                                                                                                                              OPTIONAL,
E-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
F-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    powerOffsetInformation
                                       PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD,
    fdd-TPC-DownlinkStepSize
                                       FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                       LimitedPowerIncrease,
    innerLoopDLPCStatus
                                       InnerLoopDLPCStatus,
    iE-Extensions
                                       ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRqstFDD-ExtIEs} }
                                                                                                                              OPTIONAL,
    . . .
F-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD ::= SEQUENCE {
    pO2-ForTPC-Bits
                                       PowerOffset,
    -- This IE shall be ignored by Node B
   iE-Extensions
                                       ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      *****************
-- RADIO LINK SETUP REQUEST TDD
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__ ******************
RadioLinkSetupRequestTDD ::= SEOUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                       {{RadioLinkSetupRequestTDD-IEs}},
    protocolExtensions
                           Protocol ExtensionContainer
                                                       {{RadioLinkSetupRequestTDD-Extensions}}
                                                                                                                  OPTIONAL.
RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                           CRITICALITY reject TYPE CRNC-CommunicationContextID
    ID
                                                                                                                             PRESENCE mandatory
} |
           id-UL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                           CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional }
     ID
           id-DL-CCTrCH-InformationList-RL-SetupRgstTDD
                                                           CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional
     ID
           id-DCH-TDD-Information
                                                           CRITICALITY reject TYPE DCH-TDD-Information
                                                                                                                             PRESENCE optional
     ID
           id-DSCH-TDD-Information
                                                           CRITICALITY reject TYPE DSCH-TDD-Information
                                                                                                                             PRESENCE optional
     TD
           id-USCH-Information
                                                           CRITICALITY reject TYPE USCH-Information
                                                                                                                             PRESENCE optional }
           id-RL-Information-RL-SetupRqstTDD
                                                           CRITICALITY reject TYPE RL-Information-RL-SetupRgstTDD
                                                                                                                             PRESENCE mandatory
     ID
RadioLinkSetupRequestTDD-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-DSCH Information IE is present
    { ID id-HSPDSCH-RL-ID
                                           CRITICALITY reject
                                                                                                                  PRESENCE conditional } |
                                                                   EXTENSION RL-ID
    -- The IE shall be present if HS-DSCH Information IE is present
     ID id-PDSCH-RL-ID
                                           CRITICALITY ignore
                                                                   EXTENSION RL-ID
                                                                                                                  PRESENCE optional } |
                                                                                                                  PRESENCE optional }
     ID id-E-DCH-Information
                                           CRITICALITY reject
                                                                   EXTENSION E-DCH-Information
     ID id-E-DCH-Serving-RL-ID
                                           CRITICALITY reject
                                                                                                                  PRESENCE optional }
                                                                   EXTENSION RL-ID
                                                                                                                  PRESENCE optional }
     ID id-E-DCH-768-Information
                                           CRITICALITY reject
                                                                   EXTENSION E-DCH-768-Information
     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
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-SetupRgstTDD
                                                           CRITICALITY notify
                                                                                  TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                                                                                                   PRESENCE
mandatory }
UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                           CCTrCH-ID,
    tFCS
                                           TFCS,
    tFCI-Coding
                                           TFCI-Coding,
                                           PunctureLimit,
    punctureLimit
    uL-DPCH-Information
                                           UL-DPCH-Information-RL-SetupRqstTDD
                                                                                  OPTIONAL, -- Applicable to 3.84Mcps TDD only
                                           ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
    iE-Extensions
```

```
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.
    { ID id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD
                                                       CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR
                                                                                                                                 PRESENCE optional } |
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-UL-DPCH-768-Information-RL-SetupRqstTDD
                                                        CRITICALITY notify EXTENSION UL-DPCH-768-Information-RL-SetupRqstTDD 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-SetupRgstTDD
                                                        CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRgstTDD
                                                                                                                              PRESENCE mandatory
UL-DPCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                                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-SetupRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                       OPTIONAL,
UL-DPCH-LCR-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
UL-DPCH-768-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot768-Information
                                            UL-Timeslot768-Information
                                            ProtocolExtensionContainer { { UL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                       OPTIONAL,
    . . .
```

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UL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ DL-CCTrCH-InformationItemIE-RL-
SetupRgstTDD }}
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-RL-SetupRqstTDD
    cCTrCH-TPCList
                                                                                OPTIONAL,
                                         DL-DPCH-Information-RL-SetupRqstTDD
    dL-DPCH-Information
                                                                                OPTIONAL,
                                                                                           -- Applicable to 3.84Mcps TDD only
                                         ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                           OPTIONAL.
    . . .
DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-Information-RL-SetupRqstTDD
                                                     CRITICALITY notify
                                                                            EXTENSION DL-DPCH-LCR-Information-RL-SetupRqstTDD
                                                                                                                               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 }
     ID id-CCTrCH-Minimum-DL-Power-RL-SetupRgstTDD
                                                                                                                 PRESENCE optional }
                                                     CRITICALITY ignore
                                                                            EXTENSION DL-Power
     ID id-DL-DPCH-768-Information-RL-SetupRqstTDD
                                                     CRITICALITY notify
                                                                            EXTENSION DL-DPCH-768-Information-RL-SetupRqstTDD
                                                                                                                               PRESENCE
optional }, -- Applicable to 7.68Mcps TDD only
CCTrCH-TPCList-RL-SetupRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRgstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
   iE-Extensions
                                         ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRgstTDD-ExtIEs} }
                                                                                                                OPTIONAL,
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationIE-RL-SetupRqstTDD }}
DL-DPCH-InformationIE-RL-SetupRqstTDD 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,
```

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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-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-LCR-Information-RL-SetupRgstTDD ::= 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-SetupRqstTDD-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,
                                           ProtocolExtensionContainer { { DL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                  OPTIONAL,
DL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
RL-Information-RL-SetupRgstTDD ::= SEQUENCE
   rL-ID
                                           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-SetupRqstTDD-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
                                                       CRITICALITY reject
    { ID id-UARFCNforNt.
                                                                               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
                                                       {{RadioLinkSetupResponseFDD-Extensions}}
    protocolExtensions
                           ProtocolExtensionContainer
                                                                                                                     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 },
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,
    diversityIndication
                                                   DiversityIndication-RL-SetupRspFDD,
    not-Used-dSCH-InformationResponseList
                                                   NULL
                                                                                   OPTIONAL,
```

```
sSDT-SupportIndicator
                                                 SSDT-SupportIndicator,
   iE-Extensions
                                                 ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} }
   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
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                             Combining-RL-SetupRspFDD,
   nonCombiningOrFirstRL
                                             NonCombiningOrFirstRL-RL-SetupRspFDD
Combining-RL-SetupRspFDD ::= SEQUENCE {
   rL-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}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{RadioLinkSetupResponseTDD-Extensions}}
                                                                                                                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 optional }
   -- 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 ::=
    PRESENCE
             } -- 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 },
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
                                              DCH-InformationResponseList-RL-SetupRspTDD
                                                                                                        OPTIONAL,
   dSCH-InformationResponseList
                                              DSCH-InformationResponseList-RL-SetupRspTDD
                                                                                                        OPTIONAL,
   uSCH-InformationResponseList
                                              USCH-InformationResponseList-RL-SetupRspTDD
                                                                                                        OPTIONAL,
   iE-Extensions
                                              OPTIONAL,
RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
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 ::= {
    ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                    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 {
   rL-ID
                                                  RL-ID.
   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,
                                                  ProtocolExtensionContainer { { RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
      RADIO LINK SETUP FAILURE FDD
      ************************
RadioLinkSetupFailureFDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                      {{RadioLinkSetupFailureFDD-IEs}},
   protocolIEs
                          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 } |
                                              CRITICALITY ignore TYPE CriticalityDiagnostics
    { ID id-CriticalityDiagnostics
                                                                                                                  PRESENCE optional }.
    . . .
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
                       GeneralCauseList-RL-SetupFailureFDD,
   generalCause
   rLSpecificCause
                       RLSpecificCauseList-RL-SetupFailureFDD.
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
    cause
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} }
   iE-Extensions
                                                                                                                          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,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} }
                                                                                                                                   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 },
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
                                        ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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 {
    rL-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
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}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{RadioLinkSetupFailureTDD-Extensions}}
                                                                                                                OPTIONAL,
    . . .
```

```
RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                    CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                       PRESENCE mandatory
           id-CauseLevel-RL-SetupFailureTDD
                                                    CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD
                                                                                                                       PRESENCE mandatory
           id-CriticalityDiagnostics
                                                    CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                       PRESENCE optional },
     ID
RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
                       GeneralCauseList-RL-SetupFailureTDD,
    generalCause
    rLSpecificCause
                        RLSpecificCauseList-RL-SetupFailureTDD,
GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
    cause
                                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,
                                                            ProtocolExtensionContainer { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs}
    iE-Extensions
    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
                                        Cause,
    iE-Extensions
                                        ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs} }
                                                                                                                                        OPTIONAL,
```

```
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK ADDITION REQUEST FDD
  ******************
RadioLinkAdditionRequestFDD ::= SEQUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                        {{RadioLinkAdditionRequestFDD-IEs}},
    protocolExtensions
                           ProtocolExtensionContainer
                                                       {{RadioLinkAdditionRequestFDD-Extensions}}
                                                                                                                       OPTIONAL
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                                   CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                     PRESENCE mandatory
                                                   CRITICALITY reject TYPE Compressed-Mode-Deactivation-Flag
     ID id-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
                                                                                                                        PRESENCE optional }
                                                   CRITICALITY reject EXTENSION CFN
     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-AdditionReqFDD
                                                                                                                       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
RL-InformationList-RL-AdditionRqstFDD
                                      ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-
AdditionRgstFDD}}
RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-AdditionRqstFDD
                                                                                                                       PRESENCE mandatory
RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE
   rL-ID
                                               RL-ID,
    C-TD
                                               C-ID.
    frameOffset
                                               FrameOffset,
    chipOffset
                                               ChipOffset,
    diversityControlField
                                               DiversityControlField,
                                               FDD-DL-CodeInformation,
    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-AdditionRgstFDD-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
                                                                                                                                 PRESENCE optional
                                                       CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
} |
     ID id-SynchronisationIndicator
                                                       CRITICALITY ignore EXTENSION SynchronisationIndicator
                                                                                                                                 PRESENCE optional
    { ID id-F-DPCH-SlotFormat
                                                       CRITICALITY reject EXTENSION F-DPCH-SlotFormat
                                                                                                                                 PRESENCE optional
E-DPCH-Information-RL-AdditionRegFDD ::= SEOUENCE
    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,
    hARQ-Info-for-E-DCH
                                               HARQ-Info-for-E-DCH,
    iE-Extensions
                                               ProtocolExtensionContainer { { E-DPCH-Information-RL-AdditionRegFDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
E-DPCH-Information-RL-AdditionReqFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCH-Configured-Indicator
                                           CRITICALITY reject EXTENSION
                                                                          HSDSCH-Configured-Indicator
                                                                                                                     PRESENCE mandatory },
    -- This shall be present for EDPCH configuration with HSDCH
-- RADIO LINK ADDITION REQUEST TDD
__ **********************
RadioLinkAdditionRequestTDD ::= SEQUENCE {
                                                        {{RadioLinkAdditionRequestTDD-IEs}},
    protocolIEs
                           ProtocolIE-Container
    protocolExtensions
                           ProtocolExtensionContainer
                                                       {{RadioLinkAdditionRequestTDD-Extensions}}
                                                                                                                     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-AdditionRqstTDD
                                                           CRITICALITY reject TYPE DL-CCTrCH-InformationList-RL-AdditionRgstTDD 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
    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
                                                                                                                   PRESENCE optional }
                                                                   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
     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
UL-CCTrCH-InformationList-RL-AdditionRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-AdditionRgstTDD
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                               CCTrCH-ID,
    uL-DPCH-Information
                                               UL-DPCH-InformationList-RL-AdditionRqstTDD
                                                                                               OPTIONAL, -- Applicable to 3.84cps TDD only
    iE-Extensions
                                               ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ID id-UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD
               optional } | -- Applicable to 1.28cps TDD only
    { ID id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional }|--
Applicable to 1.28cps TDD only
    { ID id-UL-DPCH-InformationItem-768-RL-AdditionRqstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-768-RL-AdditionRqstTDD
              optional }, -- Applicable to 7.68Mcps TDD only
    PRESENCE
UL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}
UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRgstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-AdditionRgstTDD 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,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRgstTDD-ExtIEs} }
                                                                                                                                    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
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-768-RL-AdditionRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                          OPTIONAL,
UL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRqstTDD
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    dL-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRqstTDD
                                                                                                 -- Applicable to 3.84Mcps TDD only
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
    iE-Extensions
    . . .
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD
                                                                CRITICALITY notify
                                                                                         EXTENSION DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD
                    optional } | -- Applicable to 1.28Mcps TDD only
      ID id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD
                                                                CRITICALITY ignore
                                                                                         EXTENSION DL-Power
                                                                                                                              PRESENCE optional
      ID id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD
                                                                CRITICALITY reject
                                                                                         EXTENSION TDD-TPC-DownlinkStepSize
                                                                                                                             PRESENCE optional
      ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD
                                                                CRITICALITY ignore
                                                                                                                              PRESENCE optional
                                                                                         EXTENSION DL-Power
      ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD
                                                                                                                              PRESENCE optional }
                                                                 CRITICALITY ignore
                                                                                         EXTENSION DL-Power
```

```
id-DL-DPCH-InformationItem-768-RL-AdditionRqstTDD CRITICALITY notify
                                                                                   EXTENSION DL-DPCH-InformationItem-768-RL-AdditionRqstTDD
                   optional }, -- Applicable to 7.68Mcps TDD only
    . . .
DL-DPCH-InformationList-RL-AdditionRgstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRgstTDD }}
DL-DPCH-InformationItemIE-RL-AdditionRgstTDD NBAP-PROTOCOL-IES ::= {
    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-AdditionRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                              OPTIONAL,
DL-DPCH-InformationItem-RL-AdditionRqstTDD-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,
                                         ProtocolExtensionContainer { { DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs} }
   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
                                         ProtocolExtensionContainer { { DL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
DL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
   rL-ID
                                             RL-ID,
   c-ID
                                             C-ID,
    frameOffset
                                             FrameOffset,
```

```
diversityControlField
                                            DiversityControlField,
   initial-DL-Transmission-Power
                                            DL-Power
                                                               OPTIONAL.
   maximumDL-Power
                                            DL-Power
                                                               OPTIONAL.
   minimumDL-Power
                                            DL-Power
                                                               OPTIONAL,
   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 },
```

```
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
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                                  Combining-RL-AdditionRspFDD,
    non-combining
                                                  Non-Combining-RL-AdditionRspFDD
Combining-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                                                  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
                                              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 {
                         ProtocolIE-Container
                                                    {{RadioLinkAdditionResponseTDD-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer
                                                   {{RadioLinkAdditionResponseTDD-Extensions}}
                                                                                                            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 optional
          -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
     ID id-CriticalityDiagnostics
                                                   CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                        PRESENCE optional
RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { 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 },
   . . .
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
                                            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
   combining
                                       Combining-RL-AdditionRspTDD,
                                                                  -- Indicates whether the old Transport Bearer shall be reused or
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 ::=
   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
                                       RL-ID.
   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
```

```
RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK ADDITION FAILURE FDD
  *********************
RadioLinkAdditionFailureFDD ::= SEQUENCE {
    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
                                                                                                                              PRESENCE optional },
    ID id-CriticalityDiagnostics
                                                   CRITICALITY ignore
                                                                           TYPE CriticalityDiagnostics
    . . .
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 },
CauseLevel-RL-AdditionFailureFDD ::= CHOICE
    generalCause
                       GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause
                       RLSpecificCauseList-RL-AdditionFailureFDD,
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    cause
                                               Cause,
                                               ProtocolExtensionContainer { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    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
                              Cause,
                              iE-Extensions
                                                                                                                                   OPTIONAL,
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEOUENCE (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 {
   rI.-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
},
```

```
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
   combining
                                Combining-RL-AdditionFailureFDD,
   non-Combining
                                Non-Combining-RL-AdditionFailureFDD
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
   rI.- TD
   iE-Extensions
                                           ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } 
                                                                                                                      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
                                                                                                                            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 {
                       ProtocolIE-Container
                                                   {{RadioLinkAdditionFailureTDD-IEs}},
   protocolIEs
                                                  {{RadioLinkAdditionFailureTDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                           OPTIONAL,
   . . .
RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                        TYPE CRNC-CommunicationContextID
                                                  CRITICALITY ignore
                                                                                                              PRESENCE mandatory }
          id-CauseLevel-RL-AdditionFailureTDD
                                                   CRITICALITY ignore
                                                                        TYPE CauseLevel-RL-AdditionFailureTDD
                                                                                                              PRESENCE mandatory }
                                                  CRITICALITY ignore
                                                                                                              PRESENCE optional },
     ID
          id-CriticalityDiagnostics
                                                                        TYPE CriticalityDiagnostics
   . . .
RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
```

```
generalCause
                       GeneralCauseList-RL-AdditionFailureTDD,
   rLSpecificCause
                       RLSpecificCauseList-RL-AdditionFailureTDD,
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
                                                             ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs} }
   iE-Extensions
       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
                                  Cause,
                                  ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     *****************
-- RADIO LINK RECONFIGURATION PREPARE FDD
  *****************
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkReconfigurationPrepareFDD-IEs}},
                                                     {{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 }
    { ID id-Transmission-Gap-Pattern-Sequence-Information
                                                          CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
                                                                                                                                      PRESENCE
optional },
RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SignallingBearerRequestIndicator
                                                                                                                             PRESENCE optional
                                                    CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
     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
                                                                                                                             PRESENCE optional
                                                    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
     ID id-HSDSCH-RNTI
                                                                                                                             PRESENCE conditional } |
                                                    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 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
                                                    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
                                                                                                                             PRESENCE optional
     ID id-E-DCH-MACdFlows-to-Add
                                                    CRITICALITY reject EXTENSION E-DCH-MACdFlows-Information
     ID id-E-DCH-MACdFlows-to-Delete
                                                    CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
                                                                                                                             PRESENCE optional
                                                    CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                             PRESENCE optional
     ID id-Serving-E-DCH-RL-ID
     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
                                                    CRITICALITY reject EXTENSION CPC-Information
                                                                                                                             PRESENCE optional }
     ID id-CPC-Information
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEOUENCE
    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
                                                    PunctureLimit
    ul-PunctureLimit
                                                                                        OPTIONAL,
    t.FCS
                                                    TFCS
                                                                                        OPTIONAL,
    ul-DPCCH-SlotFormat
                                                    UL-DPCCH-SlotFormat
                                                                                        OPTIONAL,
    diversityMode
                                                    DiversityMode
                                                                                        OPTIONAL,
```

```
NULL
   not-Used-sSDT-CellIDLength
                                                                                   OPTIONAL,
   not-Used-s-FieldLength
                                                 NULL
                                                                                   OPTIONAL.
   iE-Extensions
                                                 ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    PRESENCE optional }.
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
                                                                                   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,
   iE-Extensions
                                                 ProtocolExtensionContainer { | DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                              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,
   iE-Extensions
                                         ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                         PowerOffset,
                                         PowerOffset,
   pO2-ForTPC-Bits
   pO3-ForPilotBits
                                         PowerOffset,
   iE-Extensions
                                         ProtocolExtensionContainer { { PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs} }
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DCH-DeleteList-RL-ReconfPrepFDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE
    4CH-TD
                                                   DCH-ID.
   iE-Extensions
                                                   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 ::= {
                                                                                                                 RL-InformationItem-RL-
          id-RL-InformationItem-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                          reject
                                                                                          TYPE
Reconf PrepFDD
                   PRESENCE
                               mandatory}
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
   rI.-ID
                                                   RL-ID,
    dl-CodeInformation
                                                   FDD-DL-CodeInformation
                                                                                              OPTIONAL,
   maxDL-Power
                                                   DL-Power
                                                                                              OPTIONAL,
   minDL-Power
                                                   DL-Power
                                                                                              OPTIONAL,
   not-Used-sSDT-Indication
                                                   NULL
                                                                                              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'
                                                   ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs} }
   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
                                                                                                                          PRESENCE optional },
E-DPCH-Information-RL-ReconfPrepFDD ::= SEOUENCE
   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,
```

```
hARQ-Info-for-E-DCH
                                            HARQ-Info-for-E-DCH
                                                                                                                     OPTIONAL,
   hSDSCH-Configured-Indicator
                                            HSDSCH-Configured-Indicator
                                                                                                                     OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                     OPTIONAL.
E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
   . . .
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEOUENCE {
   pO2-ForTPC-Bits
                                    PowerOffset,
   -- 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 {
                                                    {RadioLinkReconfigurationPrepareTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                         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 }
                                                                                                                                PRESENCE optional
     ID id-DCHs-to-Add-TDD
                                                                CRITICALITY reject TYPE DCH-TDD-Information
     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 ::= {
                                                                                                                             PRESENCE optional } |
           id-SignallingBearerRequestIndicator
                                                    CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
                                                                                                                             PRESENCE optional
           id-HSDSCH-TDD-Information
                                                    CRITICALITY reject EXTENSION HSDSCH-TDD-Information
           id-HSDSCH-Information-to-Modify
                                                    CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
                                                                                                                             PRESENCE optional
                                                                                                                             PRESENCE optional
     ID
           id-HSDSCH-MACdFlows-to-Add
                                                    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
           id-HSDSCH-MACdFlows-to-Delete
                                                    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                             PRESENCE optional }
           id-HSDSCH-RNTI
                                                    CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                             PRESENCE conditional } |
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
           id-HSPDSCH-RL-ID
                                                    CRITICALITY reject EXTENSION RL-ID
                                                                                                                             PRESENCE optional }
                                                                                                                             PRESENCE optional } |
     ID
           id-PDSCH-RL-ID
                                                    CRITICALITY ignore EXTENSION RL-ID
    { 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
                                                                                                                             PRESENCE optional
                                                    CRITICALITY reject EXTENSION RL-ID
     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 },
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 ::= {
    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-LCR-InformationAddList-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-
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,
                                           ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                    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.
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                          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
                                                RL-ID
                                                                                                 OPTIONAL,
                                                ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
        OPTIONAL,
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD
    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 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    t.FCS
                                                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
-- 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
-- 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-
InformationModifvList-RL-ReconfPrepTDD
   iE-Extensions
                                             ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    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
                                                                                                              } |
                                                                     UL-SIR
                                                                                PRESENCE optional
    -- 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
                                                                                           MultipleRL-UL-DPCH-InformationModifyList-RL-
                                                                            EXTENSION
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 }
Reconf PrepTDD
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-
                   PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
ReconfPrepTDD
    . . .
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
                                           ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    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-
ReconfPrepTDD
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
```

```
dPCH-ID
                                           DPCH-ID,
    tdd-ChannelisationCode
                                           TDD-ChannelisationCode
                                                                      OPTIONAL.
   iE-Extensions
                                           ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   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
                                           ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
       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.
   tdd-ChannelisationCodeLCR
                                           TDD-ChannelisationCodeLCR
                                                                          OPTIONAL,
   iE-Extensions
                                           ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs} }
   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
optional},
UL-Timeslot768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-768-InformationModify-ModifyLtem-
RL-ReconfPrepTDD
                   -- Applicable to 7.68Mcps TDD only
UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
   timeSlot
                                           TimeSlot,
   midambleShiftAndBurstType768
                                           MidambleShiftAndBurstType768
                                                                          OPTIONAL,
                                          TFCI-Presence
   tFCI-Presence
                                                                          OPTIONAL,
```

```
uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768
                                                                             UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768
    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
                                            DPCH-ID,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768
                                                                            OPTIONAL.
                                            ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIEs} }
    iE-Extensions
    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 ::= {
    { ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE UL-DPCH-InformationModify-DeleteListIE-RL-
ReconfPrepTDD
                    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
                                        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,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
    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-InformationModifyList
                                           UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                         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
                                           UL-SIR
                                                                                                         OPTIONAL,
   tDD-TPC-UplinkStepSize-LCR
                                           TDD-TPC-UplinkStepSize-LCR
                                                                                                         OPTIONAL,
                                           RL-ID
                                                                                                         OPTIONAL,
   -- This DPCH Information is the for the 2nd and beyond RL repetitions,
   iE-Extensions
                                           ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs}
       OPTIONAL,
MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
   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
                                           CCTrCH-ID,
                                           iE-Extensions
   OPTIONAL,
   . . .
```

```
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-InformationAddList-RL-ReconfPrepTDD
    dl-DPCH-InformationList
                                                                                                                   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-
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-DL-DPCH-
InformationAddList-RL-ReconfPrepTDD
    { ID id-CCTrCH-Initial-DL-Power-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
    { 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
    { ID id-CCTrCH-Minimum-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
    { 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 ::= SEQUENCE (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
    iE-Extensions
                                           ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                            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
                                          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
                                          ProtocolExtensionContainer { | DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                                    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-
ReconfPrepTDD
    --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
                                                                                                                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
                                                                                                                OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} }
```

```
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 ::= SEOUENCE {
    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
                                                    TFCI-Coding
                                                                                                                    OPTIONAL.
    punctureLimit
                                                    PunctureLimit
                                                                                                                    OPTIONAL,
    cCTrCH-TPCList
                                                    CCTrCH-TPCModifyList-RL-ReconfPrepTDD
                                                                                                                    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
                                                                                                                    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
    iE-Extensions
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    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-
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-DL-DPCH-
InformationModifvList-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 }
```

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-- 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-RL-ID
                      CRITICALITY ignore
                                            EXTENSION
                                                           RL-ID
                                                                      PRESENCE optional
                                                                                         } |
-- This is the RL ID for the first RL repetition
   { ID id-multipleRL-dl-DPCH-InformationModifyList
                                                 CRITICALITY reject
                                                                          EXTENSION
                                                                                         MultipleRL-DL-DPCH-InformationModifyList-RL-
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
                                                                                                           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,
   iE-Extensions
                                        ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
   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.
                                          ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
   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
                                                                                                                                  DL-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,
   midambleShiftAndBurstTvpe
                                          MidambleShiftAndBurstTvpe
                                                                             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
                                                       ::= SEQUENCE
    dPCH-ID
                                          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
                                                               ::= SEQUENCE
```

```
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.
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
       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-
Reconf PrepTDD
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                              ::= SEQUENCE {
                                            DPCH-ID,
                                            TDD-ChannelisationCodeLCR
    tdd-ChannelisationCodeLCR
    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
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
                                                                 ::= SEQUENCE {
    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,
                                            ProtocolExtensionContainer { { DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
       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-
ReconfPrepTDD
DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                             ::= SEQUENCE {
    dPCH-TD768
                                            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 ::= SEOUENCE (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-
Reconf PrepTDD
    --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
                                                                     DL-Power
                                                                                                                              OPTIONAL,
    cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                     DI - Power
                                                                                                                              OPTIONAL,
                                                                     RT.-TD
    rI.-ID
                                                                                                                              OPTIONAL,
    iE-Extensions
                                                                     ProtocolExtensionContainer { { MultipleRL-DL-DPCH-InformationModifyListIE-RL-
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-
                                PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
AddList-RL-ReconfPrepTDD
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
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    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
    iE-Extensions
                                                ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                              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
                                                                      OPTIONAL,
   transportBearerRequestIndicator
                                            TransportBearerRequestIndicator,
   iE-Extensions
                                            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-TnlOos
                                     CRITICALITY ignore EXTENSION TnlOos
                                                                                         PRESENCE optional
   . . .
DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD
DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dscH-ID
                                            DSCH-ID.
   iE-Extensions
                                            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 ::= SEQUENCE {
   uSCH-ID
                                             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 ::= SEOUENCE (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.
                                             DL-Power
   maxDL-Power
                                                                OPTIONAL,
   minDL-Power
                                             DL-Power
                                                                OPTIONAL,
   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 {
```

```
ProtocolIE-Container
                                                     {{RadioLinkReconfigurationReady-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{RadioLinkReconfigurationReady-Extensions}}
                                                                                                               OPTIONAL,
RadioLinkReconfigurationReady-IES NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                    CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                    PRESENCE mandatory } |
                                                    CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReady
     ID id-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
                                                                   EXTENSION HSDSCH-FDD-Information-Response
                                                                                                               PRESENCE optional }
                                             CRITICALITY ignore
   -- 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
                                                                   EXTENSION MAChs-ResetIndicator
                                                                                                               PRESENCE optional }
                                             CRITICALITY ignore
     ID id-Fast-Reconfiguration-Permission
                                             CRITICALITY ignore
                                                                   EXTENSION Fast-Reconfiguration-Permission
                                                                                                               PRESENCE optional }
     ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                           CRITICALITY ignore
                                                                                                               EXTENSION
   ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                       PRESENCE optional },
   . . .
RL-InformationResponseList-RL-ReconfReady
                                          ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-
ReconfReady } }
RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE
   rL-ID
                                                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,
   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
},
```

```
DCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
DSCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
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
       ****************
-- RADIO LINK RECONFIGURATION FAILURE
__ *********************
RadioLinkReconfigurationFailure ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                                 {{RadioLinkReconfigurationFailure-IEs}},
                        ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                       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 {
                    GeneralCauseList-RL-ReconfFailure,
   generalCause
   rLSpecificCause
                    RLSpecificCauseList-RL-ReconfFailure,
GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
   callse
   iE-Extensions
                                          ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs} }
                                                                                                                  OPTIONAL
```

```
GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
   rL-ReconfigurationFailureList-RL-ReconfFailure
                                                RL-ReconfigurationFailureList-RL-ReconfFailure
                                                                                                       OPTIONAL,
   iE-Extensions
                                                 OPTIONAL,
   . . .
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-
ReconfigurationFailureItemIE-RL-ReconfFailure}}
RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
   { ID id-RL-ReconfigurationFailureItem-RL-ReconfFailure CRITICALITY ignore TYPE RL-ReconfigurationFailureItem-RL-ReconfFailure PRESENCE
mandatory }
RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
   rL-ID
                                         RL-ID,
   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
     ID
                                             CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                                     PRESENCE mandatory }
     ID
         id-CFN
                                             CRITICALITY ignore TYPE CFN
                                                                                                     PRESENCE mandatory } |
         id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information
                                                                                                     PRESENCE optional },
   -- 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 {
                         ProtocolIE-Container
                                                    {{RadioLinkReconfigurationCancel-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer
                                                   {{RadioLinkReconfigurationCancel-Extensions}}
                                                                                                              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}},
   protocolExtensions
                         ProtocolExtensionContainer
                                                   {{RadioLinkReconfigurationRequestFDD-Extensions}}
                                                                                                              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
                                                                                                                      PRESENCE optional
     ID id-DCHs-to-Add-FDD
                                                       CRITICALITY reject TYPE DCH-FDD-Information
     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 }
     ID id-Transmission-Gap-Pattern-Sequence-Information
                                                       CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information 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 }
                                                                                                                 PRESENCE optional }
     ID id-HSDSCH-MACdFlows-to-Delete
                                                   CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
     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
                                                                                                                 PRESENCE optional
     ID id-E-DPCH-Information-RL-ReconfRqstFDD
                                                   CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfRqstFDD
     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
                                                                                                                 PRESENCE optional
                                                   CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
     ID id-Serving-E-DCH-RL-ID
                                                   CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                 PRESENCE optional
     ID id-CPC-Information
                                                                                                                 PRESENCE optional }
                                                   CRITICALITY reject EXTENSION CPC-Information
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
   ul-TFCS
                                                             OPTIONAL,
                                               ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } 
   iE-Extensions
                                                                                                                         OPTIONAL,
   . . .
UL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE conditional },
   -- The IE shall be present if E-DPCH Information IE is present
DL-DPCH-Information-RL-ReconfRgstFDD ::= SEQUENCE {
                                                                                   OPTIONAL,
   dl-TFCS
   tFCI-SignallingMode
                                               TFCI-SignallingMode
                                                                                   OPTIONAL.
   limitedPowerIncrease
                                               LimitedPowerIncrease
                                                                                   OPTIONAL,
   iE-Extensions
                                               OPTIONAL,
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRastFDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRastFDD
DCH-DeleteItem-RL-ReconfRastFDD ::= SEOUENCE {
   dCH-TD
   iE-Extensions
                                               OPTIONAL.
   . . .
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
RL-InformationList-RL-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfRgstFDD}}
RL-InformationItemIE-RL-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-ReconfRqstFDD
                                                     CRITICALITY reject
                                                                           TYPE RL-InformationItem-RL-ReconfRqstFDD
                                                                                                                      PRESENCE mandatory }
RL-InformationItem-RL-ReconfRgstFDD ::= SEQUENCE {
                                             RL-ID,
   maxDL-Power
                                             DL-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".
   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
                                                                                                                   PRESENCE optional
     ID id-E-DCH-RL-Indication
                                     CRITICALITY reject
                                                            EXTENSION E-DCH-RL-Indication
     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 },
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-TTT
                                                                                                                   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-ReconfRgstFDD-ExtIEs} }
                                                                                                                   OPTIONAL,
E-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK RECONFIGURATION REQUEST TDD
  *****************
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
```

```
{{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkReconfigurationRequestTDD-Extensions}}
                                                                                                                 OPTIONAL.
RadioLinkReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                             CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                          PRESENCE mandatory
} |
     ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD
                                                             CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
    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 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-ReconfRgstTDD
                                                             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-SignallingBearerReguestIndicator
                                                     CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }
     ID id-multiple-RL-Information-RL-ReconfRgstTDD
                                                                 CRITICALITY reject EXTENSION Multiple-RL-Information-RL-ReconfRgstTDD
    PRESENCE optional }
--Includes the 2nd through the max number of radio link information repetitions.
                                                     CRITICALITY reject EXTENSION HSDSCH-TDD-Information
     ID id-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
                                                                                                                    PRESENCE optional }
                                                     CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                    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 EXTENSION RL-ID
                                                                                                                    PRESENCE optional }
     ID id-E-DCH-Information-Reconfig
                                                                                                                    PRESENCE optional }
                                                     CRITICALITY reject EXTENSION E-DCH-Information-Reconfig
     ID id-E-DCH-Serving-RL-ID
                                                     CRITICALITY reject EXTENSION RL-ID
                                                                                                                    PRESENCE optional }
     ID id-E-DCH-768-Information-Reconfig
                                                                                                                    PRESENCE optional }
                                                     CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig
    ID id-E-DCH-LCR-Information-Reconfig
                                                     CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig
                                                                                                                    PRESENCE optional },
    . . .
UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationModifvItemIE-RL-ReconfRgstTDD}}
UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
```

```
cCTrCH-ID
                                                CCTrCH-ID.
   t FCS
                                                TECS
                                                               OPTIONAL.
   punctureLimit
                                                PunctureLimit
                                                               OPTIONAL.
   iE-Extensions
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs} }
   OPTIONAL.
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-UL-SIRTarget
                             CRITICALITY reject
                                                   EXTENSION UL-SIR
                                                                          PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only
UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRgstTDD}}
UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRgstTDD NBAP-PROTOCOL-IES ::=
   { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                                   CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
       PRESENCE mandatory }
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                                                CCTrCH-ID.
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-
InformationModifvItemIE-RL-ReconfRgstTDD}}
DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD
                                                               CRITICALITY notify
                                                                                     TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD
   PRESENCE mandatory }
DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD ::= SEQUENCE {
   cCTrCH-ID
                                                CCTrCH-ID,
   t FCS
                                                TFCS
                                                               OPTIONAL,
                                                               OPTIONAL,
   punctureLimit
                                                PunctureLimit
                                                ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
   ReconfRqstTDD
                  PRESENCE optional } -- Applicable to 1.28Mcps TDD only
```

```
-- 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-ReconfRgstTDD.
     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.
    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-InformationModifvList-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-ReconfRqstTDD
--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-ReconfRqstTDD OPTIONAL,
   cCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD
                                                               DL-Power
                                                                                                                      OPTIONAL,
   cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD
                                                               DL-Power
                                                                                                                      OPTIONAL,
   rL-ID
                                                               RI-TD
                                                                                                                      OPTIONAL,
    . . .
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD ::= SEQUENCE {
                                                                   DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD OPTIONAL,
   dL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
   iE-Extensions
                                        OPTIONAL,
    . . .
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD ::= 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-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
       OPTIONAL,
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRgstTDD}}
DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                                CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
   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-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   dCH-ID
                                                 ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs} } 
   iE-Extensions
                                                                                                                          OPTIONAL,
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-RL-Information-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfRqstTDD
--Includes the 2nd through the max number of radio link information repetitions.
RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
   rL-ID
                                             RL-ID.
   maxDL-Power
                                             DL-Power
                                                            OPTIONAL,
   minDL-Power
                                                            OPTIONAL,
                                             DL-Power
   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 {
    protocolIEs
                           ProtocolIE-Container
                                                        {{RadioLinkReconfigurationResponse-IEs}},
                                                       {{RadioLinkReconfigurationResponse-Extensions}}
    protocolExtensions
                           ProtocolExtensionContainer
                                                                                                                      OPTIONAL.
RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::=
           id-CRNC-CommunicationContextID
    { ID
                                                            CRITICALITY ignore
                                                                                    TYPE
                                                                                           CRNC-CommunicationContextID
                                                                                                                                        PRESENCE
    mandatory }
    { ID
           id-RL-InformationResponseList-RL-ReconfRsp
                                                            CRITICALITY ignore
                                                                                   TYPE
                                                                                           RL-InformationResponseList-RL-ReconfRsp
                                                                                                                                        PRESENCE
    optional
    { ID
           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
                                               CRITICALITY ignore
                                                                       EXTENSION E-DCH-Information-Response
                                                                                                                      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-Information-Response
                                                                           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,
                                               ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} }
    iE-Extensions
                                                                                                                                     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
} |
                                                       CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
     ID id-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
DCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfRsp }}
DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
    ID id-DCH-InformationResponse CRITICALITY ignore
                                                    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-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-DeletionRqst
                                                    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-DeletionRgst NBAP-PROTOCOL-IES ::= {
   { ID id-RL-informationItem-RL-DeletionRqst
                                             CRITICALITY notify
                                                                      TYPE RL-informationItem-RL-DeletionRqst PRESENCE mandatory }
RL-informationItem-RL-DeletionRqst ::= SEQUENCE {
   iE-Extensions
                                          OPTIONAL,
RL-informationItem-RL-DeletionRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
```

```
-- RADIO LINK DELETION RESPONSE
  RadioLinkDeletionResponse ::= SEQUENCE {
                                                      {{RadioLinkDeletionResponse-IEs}},
   protocolIEs
                          ProtocolIE-Container
                          ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL,
RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                 CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                       PRESENCE mandatory }|
          id-CriticalityDiagnostics
    { ID
                                                 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 ::=
     ID id-NodeB-CommunicationContextID
                                              CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                                                 PRESENCE mandatory }
     ID id-PowerAdjustmentType
                                              CRITICALITY ignore TYPE PowerAdjustmentType
                                                                                                                 PRESENCE mandatory }
    { ID id-DLReferencePower
                                                                                                                 PRESENCE conditional } |
                                             CRITICALITY ignore TYPE DL-Power
    -- 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-Rgst
                                                                                                                 PRESENCE conditional } |
                                             CRITICALITY ignore TYPE DL-ReferencePowerInformationList-DL-PC-Rgst
   -- This IE shall be present if the Adjustment Type IE is set to 'Individual'
   { ID id-MaxAdjustmentStep
                                             CRITICALITY ignore TYPE MaxAdjustmentStep
                                                                                                                 PRESENCE conditional } |
   -- 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-AdiustmentRatio
                                             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-Rqst ::= SEQUENCE (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 {
   rI.-ID
                                         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
                                                      {{DL-PowerTimeslotControlRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{DL-PowerTimeslotControlRequest-Extensions}}
                                                                                                                 OPTIONAL,
DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                         CRITICALITY ignore
                                                                TYPE NodeB-CommunicationContextID
                                                                                                                 PRESENCE mandatory } |
    { ID id-TimeslotISCPInfo
                                         CRITICALITY ignore
                                                                                                                 PRESENCE optional },
                                                                TYPE DL-TimeslotISCPInfo
    -- 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
                                                     CRITICALITY ignore
                                                                                EXTENSION
                                                                                           DL-TimeslotISCPInfoLCR
                                                                                                                   PRESENCE optional }
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
     ID id-PrimCCPCH-RSCP-DL-PC-RqstTDD
                                                     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 {
                                                 {{DedicatedMeasurementInitiationRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
```

```
ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
                                                                                                                  OPTIONAL,
   protocolExtensions
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
     ID id-DedicatedMeasurementObjectType-DM-Rgst CRITICALITY reject TYPE DedicatedMeasurementObjectType-DM-Rgst
                                                                                                                     PRESENCE mandatory
     ID id-DedicatedMeasurementType
                                                  CRITICALITY reject TYPE DedicatedMeasurementType
                                                                                                                     PRESENCE mandatory
     ID id-MeasurementFilterCoefficient
                                                  CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                                     PRESENCE optional }
     ID id-ReportCharacteristics
                                                  CRITICALITY reject TYPE ReportCharacteristics
                                                                                                                     PRESENCE mandatory
     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 },
    . . .
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
   rL
                               RL-DM-Rast,
   rLS
                               RL-Set-DM-Rgst,
                                                      -- for FDD only
    all-RL
                              AllRL-DM-Rast,
                              AllRL-Set-DM-Rgst,
   all-RLS
                                                      -- for FDD only
RL-DM-Rqst ::= SEQUENCE {
   rL-InformationList
                                      RL-InformationList-DM-Rqst,
   iE-Extensions
                                      ProtocolExtensionContainer { { RLItem-DM-Rgst-ExtIEs } }
                                                                                                                  OPTIONAL,
RLItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rqst }}
RL-InformationItemIE-DM-Rast NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
RL-InformationItem-DM-Rqst ::= SEQUENCE {
       rL-ID
                                      RL-ID,
       dPCH-ID
                                      DPCH-ID
                                                          OPTIONAL, -- for TDD only
                                      ProtocolExtensionContainer { { RL-InformationItem-DM-Rqst-ExtIEs } }
       iE-Extensions
                                                                                                                  OPTIONAL,
```

```
RL-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-PUSCH-Info-DM-Rgst
                                  CRITICALITY reject
                                                                EXTENSION
                                                                           PUSCH-Info-DM-Rast
                                                                                                                 PRESENCE optional } |
    -- TDD only
   { ID id-HSSICH-Info-DM-Rgst
                                  CRITICALITY reject
                                                                           HSSICH-Info-DM-Rast
                                                                                                                 PRESENCE optional }
                                                                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-Rqst CRITICALITY reject
                                                                EXTENSION HSSICH-InfoExt-DM-Rqst
                                                                                                                 PRESENCE optional },
    -- 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 ::= SEQUENCE (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-Rqst ::= SEQUENCE {
                                         RL-Set-InformationList-DM-Rqst,
   rL-Set-InformationList-DM-Rqst
                                         ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } }
   iE-Extensions
                                                                                                                OPTIONAL,
    . . .
RL-SetItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rqst
                                     ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-InformationItem-DM-Rqst
RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
   rL-Set-ID
   iE-Extensions
                                  ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllRL-DM-Rqst ::= NULL
AllRL-Set-DM-Rast ::= NULL
__ ******************
-- DEDICATED MEASUREMENT INITIATION RESPONSE
  ******************
DedicatedMeasurementInitiationResponse ::= SEQUENCE {
    protocolIEs
                          ProtocolIE-Container
                                                     {{DedicatedMeasurementInitiationResponse-IEs}},
```

```
ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
                                                                                                      OPTIONAL,
   protocolExtensions
DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                                                                                      PRESENCE mandatory }
                                             CRITICALITY ignore TYPE CRNC-CommunicationContextID
     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 ::= {
    { ID id-MeasurementRecoverySupportIndicator
                                            CRITICALITY ignore EXTENSION MeasurementRecoverySupportIndicator
                                                                                                         PRESENCE optional },
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
                           RL-DM-Rsp,
   rLS
                           RL-Set-DM-Rsp, -- for FDD only
   all-RT
                           RL-DM-Rsp,
   all-RLS
                           RL-Set-DM-Rsp, -- for FDD only
RL-DM-Rsp ::= SEQUENCE {
   rL-InformationList-DM-Rsp
                                  RL-InformationList-DM-Rsp,
   iE-Extensions
                                  ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } }
                                                                                                    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,
   CFM
                                                OPTIONAL,
   iE-Extensions
                                  OPTIONAL,
RL-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-PUSCH-Info-DM-Rsp
                               CRITICALITY reject
                                                           EXTENSION PUSCH-Info-DM-Rsp
                                                                                                      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-Rsp.
   { ID id-HSSICH-Info-DM-Rsp
                               CRITICALITY reject
                                                           EXTENSION HS-SICH-ID
                                                                                                       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.
   { ID id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-HSSICHMeasurementValueList-TDD-DM-RspPRESENCE
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,
   iE-Extensions
                                      ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs} }
                                                                                                          OPTIONAL,
Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEOUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
   dPCH-ID
                                   DPCH-ID.
   dedicatedMeasurementValue
                                  DedicatedMeasurementValue,
                                   ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
   . . .
```

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```
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp ::= SEOUENCE (SIZE (1.. maxNrOfDPCHsLCRPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
LCR-TDD-DM-Rsp
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp ::= SEQUENCE {
    dPCH-ID
                                        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 ::= {
                                                                                                                     PRESENCE optional },
    { ID id-Extended-HS-SICH-ID
                                                        CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
Multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp ::= SEOUENCE (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,
                                        ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }
   iE-Extensions
                                                                                                                       OPTIONAL,
```

```
RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rsp ::= SEOUENCE (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
   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 {
                                                     {{DedicatedMeasurementInitiationFailure-IEs}},
   protocolIEs
                         ProtocolIE-Container
                                                    {{DedicatedMeasurementInitiationFailure-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                               OPTIONAL,
   . . .
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                CRITICALITY
                                                               ignore
                                                                              TYPE
                                                                                      CRNC-CommunicationContextID
                                                                                                                    PRESENCE mandatory
           id-MeasurementID
                                                                              TYPE
                                                                                      MeasurementID
   { ID
                                                CRITICALITY
                                                               ignore
                                                                                                                    PRESENCE mandatory
           id-Cause
    { ID
                                                CRITICALITY
                                                                ignore
                                                                               TYPE
                                                                                      Cause
                                                                                                                     PRESENCE mandatory
   { ID
           id-CriticalityDiagnostics
                                                                              TYPE
                                                                                      CriticalityDiagnostics
                                                                                                                    PRESENCE optional },
                                                CRITICALITY
                                                                ignore
DedicatedMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    -- DEDICATED MEASUREMENT REPORT
```

```
__ *******************
DedicatedMeasurementReport ::= SEQUENCE {
   protocolIEs ProtocolIE-Container
                                       {{DedicatedMeasurementReport-IEs}},
   protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}
                                                                                              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 mandatory
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
                               RL-DM-Rprt,
   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
                               ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs } }
   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 ::= SEOUENCE {
   rL-ID
                            RL-ID,
   dPCH-ID
                            DPCH-ID
                                      OPTIONAL,
                                                  -- for TDD only
   dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation,
   iE-Extensions
                           ProtocolExtensionContainer { { RL-InformationItem-DM-Rprt-ExtIEs } }
                                                                                              OPTIONAL,
   . . .
RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-PUSCH-Info-DM-Rprt
                            CRITICALITY reject
                                                      EXTENSION PUSCH-Info-DM-Rprt
                                                                                              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
                                                                 EXTENSION HS-SICH-ID
                                                                                                                  PRESENCE optional } |
   -- TDD only
                                                                                                                  PRESENCE optional } |
   { ID id-multiple-PUSCH-InfoList-DM-Rprt CRITICALITY ignore
                                                                 EXTENSION Multiple-PUSCH-InfoList-DM-Rprt
    -- 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 ::= SEOUENCE (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
                                      ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }
                                                                                                                  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 ::= {
    PRESENCE mandatory }
RL-Set-InformationItem-DM-Rprt ::= SEOUENCE
                                  RL-Set-ID.
    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
                                                   {{DedicatedMeasurementTerminationRequest-IEs}},
   protocolIEs
                                                  {{DedicatedMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                           OPTIONAL,
DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::=
          id-NodeB-CommunicationContextID
    { ID
                                               CRITICALITY
                                                             ignore
                                                                            TYPE
                                                                                   NodeB-CommunicationContextID
                                                                                                                 PRESENCE mandatory
   { ID
          id-MeasurementID
                                               CRITICALITY
                                                             ignore
                                                                            TYPE
                                                                                   MeasurementID
                                                                                                                 PRESENCE mandatory
   . . .
DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- DEDICATED MEASUREMENT FAILURE INDICATION
  ******************
DedicatedMeasurementFailureIndication ::= SEQUENCE
                         ProtocolIE-Container
   protocolIEs
                                                   {{DedicatedMeasurementFailureIndication-IEs}},
                                                  {{DedicatedMeasurementFailureIndication-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                           OPTIONAL,
DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                           CRITICALITY
                                                          ignore
                                                                     TYPE
                                                                            CRNC-CommunicationContextID
                                                                                                           PRESENCE mandatory
                                                                     TYPE
     ID
          id-MeasurementID
                                           CRITICALITY
                                                          ignore
                                                                            MeasurementID
                                                                                                           PRESENCE mandatory
    { ID
          id-Cause
                                           CRITICALITY
                                                          ignore
                                                                     TYPE
                                                                            Cause
                                                                                                           PRESENCE mandatory
   . . .
DedicatedMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK FAILURE INDICATION
__ **********************
```

```
RadioLinkFailureIndication ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkFailureIndication-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer
                                                      {{RadioLinkFailureIndication-Extensions}}
                                                                                                                   OPTIONAL,
RadioLinkFailureIndication-IES NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                      CRITICALITY ignore
                                                                                 TYPE CRNC-CommunicationContextID
                                                                                                                         PRESENCE mandatory
           id-Reporting-Object-RL-FailureInd
    { ID
                                                      CRITICALITY ignore
                                                                                 TYPE Reporting-Object-RL-FailureInd
                                                                                                                         PRESENCE mandatory
RadioLinkFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Reporting-Object-RL-FailureInd ::= CHOICE {
   rI.
                          RL-RL-FailureInd,
   rL-Set
                           RL-Set-RL-FailureInd, --FDD only
    . . . ,
   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 {
   rI.-ID
                                              RL-ID,
    cause
                                              ProtocolExtensionContainer { { RL-InformationItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
                                                                                                                           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 ::= {
    TYPE RL-Set-InformationItem-RL-FailureInd
                                                                                                                      PRESENCE mandatory }
RL-Set-InformationItem-RL-FailureInd ::= SEQUENCE {
   rL-Set-ID
                          RL-Set-ID,
   cause
                           Cause,
                           ProtocolExtensionContainer { RL-Set-InformationItem-RL-FailureInd-ExtIEs} } OPTIONAL,
   iE-Extensions
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
   iE-Extensions
                                              ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-FailureInd-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
CCTrCH-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
-- RADIO LINK PREEMPTION REQUIRED INDICATION
  ********************
RadioLinkPreemptionRequiredIndication ::= SEQUENCE {
                                           {{RadioLinkPreemptionRequiredIndication-IEs}},
  protocolIEs
                        ProtocolIE-Container
  protocolExtensions
                        ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}
                                                                                           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 ::= {
  RL-InformationItem-RL-PreemptRequiredInd::= SEQUENCE {
                     ProtocolExtensionContainer { {RL-InformationItem-RL-PreemptRequiredInd-ExtIEs} } OPTIONAL,
  iE-Extensions
RL-InformationItem-RL-PreemptRequiredInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK RESTORE INDICATION
      **************
RadioLinkRestoreIndication ::= SEQUENCE {
  protocolIEs
              ProtocolIE-Container
                                      {{RadioLinkRestoreIndication-IEs}},
                  ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
  protocolExtensions
                                                                                OPTIONAL,
```

```
RadioLinkRestoreIndication-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                 CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                 PRESENCE mandatory
     ID
          id-Reporting-Object-RL-RestoreInd
                                                 CRITICALITY ignore TYPE Reporting-Object-RL-RestoreInd
                                                                                                                 PRESENCE mandatory
RadioLinkRestoreIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Reporting-Object-RL-RestoreInd ::= CHOICE {
                          RL-RL-RestoreInd, --TDD only
   rL
   rL-Set
                          RL-Set-RL-RestoreInd, --FDD only
                          CCTrCH-RL-RestoreInd --TDD only
   cCTrCH
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 {
   rI.-ID
                                          RL-ID,
                                          ProtocolExtensionContainer { { RL-InformationItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
   iE-Extensions
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 ::= SEOUENCE {
   rL-Set-ID
                      RL-Set-ID,
                      ProtocolExtensionContainer { { RL-Set-InformationItem-RL-RestoreInd-ExtIEs} } OPTIONAL,
   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 ::= {
   PRESENCE mandatory }
CCTrCH-InformationItem-RL-RestoreInd ::= SEOUENCE {
   cCTrCH-ID
                                       CCTrCH-ID,
                                       iE-Extensions
                                                                                                          OPTIONAL,
CCTrCH-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- COMPRESSED MODE COMMAND FDD
__ **********************
CompressedModeCommand ::= SEQUENCE {
```

```
ProtocolIE-Container
                                                    {{CompressedModeCommand-IEs}},
   protocolIEs
                         ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                                                                                PRESENCE mandatory }
                                                CRITICALITY ignore
                                                                      TYPE NodeB-CommunicationContextID
   { 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
          id-NodeB-CommunicationContextID
                                            CRITICALITY
                                                           ignore
                                                                          TYPE
                                                                                 NodeB-CommunicationContextID
                                                                                                                PRESENCE optional
     ID
          id-Cause
                                                           ignore
                                                                          TYPE
                                                                                                                PRESENCE optional
                                            CRITICALITY
     ID
          id-CriticalityDiagnostics
                                            CRITICALITY
                                                           ignore
                                                                          TYPE
                                                                                 CriticalityDiagnostics
                                                                                                                PRESENCE optional },
ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- PRIVATE MESSAGE
  ****************
PrivateMessage ::= SEQUENCE {
   privateIEs
                  PrivateIE-Container {{PrivateMessage-IEs}},
   . . .
```

```
PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
    -- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST FDD
PhysicalSharedChannelReconfigurationRequestFDD ::= SEQUENCE {
                       ProtocolIE-Container
                                                   {{PhysicalSharedChannelReconfigurationRequestFDD-IEs}},
   protocolIEs
   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
} |
                                                                                                                            PRESENCE optional } |
     ID id-SFN
                                                           CRITICALITY reject TYPE SFN
     ID id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst
                                                                                                                 TYPE MaximumTransmissionPower
                                                                              CRITICALITY reject
               PRESENCE optional }
     ID id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst CRITICALITY reject TYPE DL-ScramblingCode
                                                                                                                             PRESENCE optional } |
     ID id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst CRITICALITY reject TYPE HS-PDSCH-FDD-Code-Information
                                                                                                                             PRESENCE optional } |
                                                          CRITICALITY reject TYPE HS-SCCH-FDD-Code-Information
    ID id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRgst
                                                                                                                            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-
ReconfRast
               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 },
```

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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,
                                                                        ProtocolExtensionContainer { { HSDPA-And-EDCH-CellPortion-InformationItem-
    iE-Extensions
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}}
                                                                                                                    OPTIONAL,
    . . .
PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                    CRITICALITY reject TYPE C-ID
                                                                                                                       PRESENCE mandatory }
     ID id-SFN
                                                                                                                       PRESENCE optional
                                                    CRITICALITY reject TYPE SFN
     ID id-PDSCHSets-AddList-PSCH-ReconfRqst
                                                                                                                       PRESENCE optional
                                                    CRITICALITY reject TYPE PDSCHSets-AddList-PSCH-ReconfRqst
      ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst
                                                    CRITICALITY reject TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst
                                                                                                                       PRESENCE optional
                                                                                                                       PRESENCE optional
     ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst
                                                    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-ReconfRqst
                                                    CRITICALITY reject TYPE PUSCHSets-DeleteList-PSCH-ReconfRqst
                                                                                                                       PRESENCE optional },
    . . .
PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION HS-PDSCH-TDD-Information-PSCH-ReconfRqst
    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-ReconfRqst
                                                                CRITICALITY reject EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional } |
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PRESENCE optional } |
     ID id-ConfigurationGenerationID
                                                        CRITICALITY reject EXTENSION ConfigurationGenerationID
     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-ReconfRqst
                                                                       CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-PSCH-
ReconfRast
                          PRESENCE optional }
    { ID id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRast
                                                                       CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-PSCH-
ReconfRast
                                         PRESENCE optional } |
    { ID id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst
                                                                       CRITICALITY reject EXTENSION Delete-From-E-AGCH-Resource-Pool-PSCH-
ReconfRast
                                         PRESENCE optional }
   { ID id-E-HICH-Information-PSCH-ReconfRqst
                                                                       CRITICALITY reject EXTENSION E-HICH-Information-PSCH-ReconfRqst
       PRESENCE optional }
    ID id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells
                                                                       CRITICALITY reject EXTENSION Maximum-Generated-
ReceivedTotalWideBandPowerInOtherCells
                                         PRESENCE optional \| -- Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
                                                                       CRITICALITY reject EXTENSION E-PUCH-Information-768-PSCH-ReconfRqst
    { ID id-E-PUCH-Information-768-PSCH-ReconfRqst
                                             PRESENCE optional } |
    { ID id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRgst
                                                                       CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-768-PSCH-
                  PRESENCE optional } |
ReconfRast
    { ID id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRgst
                                                                           CRITICALITY reject
                                                                                                            EXTENSION Modify-E-AGCH-
Resource-Pool-768-PSCH-ReconfRqst
                                                                PRESENCE optional } |
    { ID id-E-HICH-Information-768-PSCH-ReconfRqst
                                                                       CRITICALITY reject EXTENSION E-HICH-Information-768-PSCH-ReconfRqst
           PRESENCE optional } |
    { ID id-E-PUCH-Information-LCR-PSCH-ReconfRast
                                                                       CRITICALITY reject EXTENSION E-PUCH-Information-LCR-PSCH-ReconfRgst
                                             PRESENCE optional } |
    { ID id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                                       CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-LCR-PSCH-
ReconfRast
                  PRESENCE optional }
    { ID id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRgst
                                                                       CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-LCR-PSCH-
ReconfRast
                                         PRESENCE optional }
    { ID id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                            CRITICALITY reject EXTENSION Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRast
       PRESENCE optional } |
    { ID id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst
                                                            CRITICALITY reject EXTENSION Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst
       PRESENCE optional }
    { ID id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst
                                                                CRITICALITY reject EXTENSION Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst
                                 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.
    EXTENSION Delete-From-HS-SCCH-Resource-PoolExt-PSCH-
              PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
   . . .
PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst
PDSCHSets-AddItem-PSCH-ReconfRgst
                                  ::= SEQUENCE {
   pDSCHSet-ID
                                             PDSCHSet-ID,
   pDSCH-InformationList
                                             PDSCH-Information-AddList-PSCH-ReconfRgst OPTIONAL,
                                                                                                            -- Mandatory for 3.84Mcps TDD.
Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
   iE-Extensions
                                             ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }
```

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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-ReconfRgst
    PRESENCE
                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-ReconfRgst CRITICALITY reject
                                                                                TYPE
                                                                                         PDSCH-Information-AddItem-PSCH-ReconfRgst
                                                                                                                                         PRESENCE
    mandatory }
PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-PSCH-ReconfRast
                                                                DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
PDSCH-Information-AddItem-PSCH-ReconfRgst-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,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                         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,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                   OPTIONAL,
```

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DL-Code-InformationAddItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
    tdd-PhysicalChannelOffset
                                          TDD-PhysicalChannelOffset,
   dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst
                                                                 DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
   iE-Extensions
                                              ProtocolExtensionContainer { { PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL.
PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ID id-Tstd-indicator
                              CRITICALITY reject
                                                      EXTENSION 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-ReconfRqst ::= SEQUENCE {
   timeSlotLCR
                                          TimeSlotLCR.
   midambleShiftLCR
                                          MidambleShiftLCR,
    t.FCI-Presence
                                          TFCI-Presence,
   dL-Code-InformationAddList-LCR-PSCH-ReconfRqst
                                                             DL-Code-InformationAddList-LCR-PSCH-ReconfRgst,
                                          ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   pDSCH-ID
                                          PDSCH-ID,
   tdd-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR,
   iE-Extensions
                                          OPTIONAL,
    . . .
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR
                                                   CRITICALITY reject
                                                                             EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
                                                                                                                        PRESENCE optional },
    . . .
PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
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repetitionLength
                                            RepetitionLength,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-768-PSCH-ReconfRost
                                                                    DL-Timeslot-InformationAddList-768-PSCH-ReconfRgst,
    iE-Extensions
                                                ProtocolExtensionContainer { {PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL.
    . . .
PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationAddList-768-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-768-PSCH-ReconfRgst
DL-Timeslot-InformationAddItem-768-PSCH-ReconfRgst ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tFCI-Presence
                                            TFCI-Presence,
                                                                DL-Code-InformationAddList-768-PSCH-ReconfRqst,
    dL-Code-InformationAddList-768-PSCH-ReconfRqst
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-768-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-768-PSCH-ReconfRgst
DL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID768
                                            PDSCH-ID768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
DL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCHSets-ModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRgst
PDSCHSets-ModifyItem-PSCH-ReconfRqst
                                         ::= SEQUENCE {
    pDSCHSet-ID
                                                PDSCHSet-ID,
    pDSCH-InformationList
                                                PDSCH-Information-ModifyList-PSCH-ReconfRqst,
   iE-Extensions
                                                ProtocolExtensionContainer { { PDSCHSets-ModifyItem-PSCH-ReconfRgst-ExtIEs} }
PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject
                                                                             EXTENSION PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRgst
                       optional \, -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    . . .
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PDSCH-Information-ModifyList-PSCH-ReconfRgst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRgst }}
PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
   PRESENCE
   optional}|
   {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst
                                                    CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
   PRESENCE
             optional}
PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE
   repetitionPeriod
                                                RepetitionPeriod
                                                                                                      OPTIONAL.
   repetitionLength
                                                RepetitionLength
                                                                                                      OPTIONAL,
   tdd-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset
                                                                                                      OPTIONAL,
   dL-Timeslot-InformationModifyList-PSCH-ReconfRgst DL-Timeslot-InformationModifyList-PSCH-ReconfRgst
                                                                                                      OPTIONAL,
                                         ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                      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
   tFCI-Presence
                                                                                                      OPTIONAL,
   dL-Code-InformationModifyList-PSCH-ReconfRgst
                                                       DL-Code-InformationModifyList-PSCH-ReconfRgst
                                                                                                      OPTIONAL,
                                      iE-Extensions
   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
                                      OPTIONAL,
DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
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repetitionPeriod
                                                                 RepetitionPeriod
                                                                                                                           OPTIONAL,
    repetitionLength
                                                                 RepetitionLength
                                                                                                                           OPTIONAL.
    tdd-PhysicalChannelOffset
                                                                 TDD-PhysicalChannelOffset
                                                                                                                           OPTIONAL.
    dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRgst
                                                                 DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                                                                           OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { {PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModifyItem-PSCH-
ReconfRast
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
                                                             TimeSlotLCR,
    timeSlotLCR
    midambleShiftLCR
                                                             MidambleShiftLCR
                                                                                                                        OPTIONAL,
    tFCI-Presence
                                                                                                                        OPTIONAL,
                                                             TFCI-Presence
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
                                                             DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                                                                        OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs 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-ReconfRqst ::= SEQUENCE
    pDSCH-ID
                                            PDSCH-ID.
                                            TDD-ChannelisationCodeLCR,
    tdd-ChannelisationCodeLCR
                                            ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
DL-Code-LCR-InformationModifyItem-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-ModifvInformation-768-ModifvItem-PSCH-ReconfRgst ::= SEOUENCE
    repetitionPeriod
                                                                 RepetitionPeriod
                                                                                                                           OPTIONAL,
    repetitionLength
                                                                 RepetitionLength
                                                                                                                           OPTIONAL
    tdd-PhysicalChannelOffset
                                                                 TDD-PhysicalChannelOffset
                                                                                                                           OPTIONAL,
    dL-Timeslot-768-InformationModifyList-PSCH-ReconfRgst
                                                                 DL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst
                                                                                                                           OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { {PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
```

```
PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
DL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModifyItem-PSCH-
ReconfRast
DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   timeSlot
   midambleShiftAndBurstType768
                                                         MidambleShiftAndBurstType768
                                                                                                                                   OPTIONAL,
                                                         TFCI-Presence
                                                                                                                                   OPTIONAL.
   tFCI-Presence
   dL-Code-768-InformationModifyList-PSCH-ReconfRqst
                                                         DL-Code-768-InformationModifyList-PSCH-ReconfRqst
                                                                                                                                OPTIONAL.
                                          ProtocolExtensionContainer { { DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRgst-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
PDSCHSets-DeleteItem-PSCH-ReconfRqst
                                       ::= SEQUENCE {
   pDSCHSet-ID
   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-ReconfRqst-ExtIEs} }
                                                                                                                        OPTIONAL.
PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst
                                                     CRITICALITY reject
                                                                             EXTENSION PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
               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-ReconfRqst NBAP-PROTOCOL-IES ::= {
     ID id-PUSCH-Information-AddListIE-PSCH-ReconfRgst CRITICALITY reject TYPE PUSCH-Information-AddItem-PSCH-ReconfRgst
                                                                                                                           PRESENCE mandatory }
PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEOUENCE {
    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-ReconfRgst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-PSCH-ReconfRgst ::= SEOUENCE {
   timeSlot
                                              TimeSlot,
   midambleShiftAndBurstType
                                              MidambleShiftAndBurstType,
    tFCI-Presence
                                              TFCI-Presence,
   uL-Code-InformationAddList-PSCH-ReconfRgst UL-Code-InformationAddList-PSCH-ReconfRgst,
   iE-Extensions
                                              OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-PSCH-ReconfRgst-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-ReconfRqst-ExtIEs} }
```

```
UL-Code-InformationAddItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                      RepetitionPeriod,
   repetitionLength
                                                      RepetitionLength,
   tdd-PhysicalChannelOffset
                                                      TDD-PhysicalChannelOffset,
   uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
                                              ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   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-ReconfRqst ::= SEQUENCE {
   timeSlotLCR
                                                  TimeSlotLCR,
   midambleShiftLCR
                                                  MidambleShiftLCR,
                                                  TFCI-Presence,
   tFCI-Presence
   uL-Code-InformationAddList-LCR-PSCH-ReconfRgst UL-Code-InformationAddList-LCR-PSCH-ReconfRgst,
                                          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-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRgst
UL-Code-InformationAddItem-LCR-PSCH-ReconfRgst ::= 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-ReconfRgst UL-Timeslot-InformationAddList-768-PSCH-ReconfRgst,
   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-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-768-PSCH-ReconfRgst ::= SEOUENCE {
   timeSlot
                                                  TimeSlot,
   midambleShiftAndBurstType768
                                                  MidambleShiftAndBurstType768,
   tFCI-Presence
                                                  TFCI-Presence,
   uL-Code-InformationAddList-768-PSCH-ReconfRgst UL-Code-InformationAddList-768-PSCH-ReconfRgst,
                                          ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-768-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-768-PSCH-ReconfRgst
UL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
   pUSCH-ID
                                          PUSCH-ID,
   tdd-ChannelisationCode768
                                          TDD-ChannelisationCode768,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                    OPTIONAL,
UL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst
                                       ::= SEQUENCE {
PUSCHSets-ModifyItem-PSCH-ReconfRqst
   pUSCHSet-ID
                                              PUSCHSet-ID,
   pUSCH-InformationList
                                              PUSCH-Information-ModifyList-PSCH-ReconfRqst,
   iE-Extensions
                                              OPTIONAL,
    . . .
PUSCHSets-ModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject
                                                                             EXTENSION PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst
           PRESENCE
                       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 ::= {
    TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst
                                                                                                                                        PRESENCE
    optional}|
    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst
                                                          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
   iE-Extensions
                                              ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                     OPTIONAL,
    . . .
PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst
UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE
    timeSlot
                                                  TimeSlot,
   midambleShiftAndBurstType
                                                  MidambleShiftAndBurstType
                                                                                                                 OPTIONAL,
    tFCI-Presence
                                                  TFCI-Presence
                                                                                                                 OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst
                                                                                                                   OPTIONAL,
   iE-Extensions
                                           ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   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,
                                           ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
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-ReconfRast
                                                          UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRgst
                                                                                                                 OPTIONAL.
                                               ProtocolExtensionContainer { {PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL.
    . . .
PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEOUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModifyItem-PSCH-
ReconfRast
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   timeSlotLCR
                                                      TimeSlotLCR,
   midambleShiftLCR
                                                      MidambleShiftLCR
                                                                                                                 OPTIONAL,
   tFCI-Presence
                                                      TFCI-Presence
                                                                                                                 OPTIONAL,
   uL-Code-LCR-InformationModifyList-PSCH-ReconfRgst UL-Code-LCR-InformationModifyList-PSCH-ReconfRgst
                                                                                                                 OPTIONAL.
   iE-Extensions
                                           ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   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
                                           ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR
                                                                                                                          PRESENCE optional },
    . . .
PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRgst ::= SEQUENCE {
   repetitionPeriod
                                                          RepetitionPeriod
                                                                                                                 OPTIONAL,
   repetitionLength
                                                          RepetitionLength
                                                                                                                 OPTIONAL,
    tdd-PhysicalChannelOffset
                                                          TDD-PhysicalChannelOffset
                                                                                                                 OPTIONAL,
    uL-Timeslot-InformationModifyList-768-PSCH-ReconfRqst UL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
                                               ProtocolExtensionContainer { {PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   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
   tFCI-Presence
   OPTIONAL,
   uL-Code-768-InformationModifyList-PSCH-ReconfRgst UL-Code-768-InformationModifyList-PSCH-ReconfRgst
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRgst-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-ReconfRqst ::= SEQUENCE {
                                          PUSCH-ID,
   pUSCH-ID
    tdd-ChannelisationCode768
                                          TDD-ChannelisationCode768,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   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
                                              PUSCHSet-ID,
                                              iE-Extensions
PUSCHSets-DeleteItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-PDSCH-TDD-Information-PSCH-ReconfRqst ::= SEQUENCE {
   dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst
                                                                     DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst
                                                                                                                           OPTIONAL,
   dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                     DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                                                                           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
   iE-Extensions
                                              ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                 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-
Timeslot-Information-768-PSCH-ReconfRqst
                                                    PRESENCE optional } -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    { 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
                                            MaximumTransmissionPower
    maxHSDSCH-HSSCCH-Power
                                                                                    OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRgst-ExtIEs} }
   OPTIONAL,
    . . .
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Codelist-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode
DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-
ReconfRast
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst::= SEQUENCE {
                                                TimeSlotLCR,
    timeSlot
    midambleShiftAndBurstType
                                                MidambleShiftLCR,
                                                DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst,
    dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRgst
    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-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRgst ::= SEQUENCE (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-ReconfRgst::= SEQUENCE {
                                            TimeSlot.
   midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
                                            DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst,
   dl-HS-PDSCH-Codelist-768-PSCH-ReconfRqst
   maxHSDSCH-HSSCCH-Power
                                            MaximumTransmissionPower
   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-ReconfRqst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Sinqle-Container{{
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst}}
   -- Includes the 2nd through the max number of frequency repetitions.
MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRgst NBAP-PROTOCOL-IES ::= {
    TYPE MultipleFreq-DL-HS-PDSCH-
Timeslot-Information-LCRItem-PSCH-ReconfRqst PRESENCE optional }
MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst ::= SEOUENCE
   dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                       DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst
                                                                                                          OPTIONAL,
   uARFCN
                                                       UARFCN,
                                                       ProtocolExtensionContainer { { MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-
   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-ReconfRqst
                                        HS-SCCH-Information-PSCH-ReconfRgst
                                                                                 OPTIONAL.
   hS-SCCH-Information-LCR-PSCH-ReconfRqst HS-SCCH-Information-LCR-PSCH-ReconfRqst
                                                                                 OPTIONAL,
                                        ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                           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
   -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
```

```
HS-SCCH-Information-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRgst
HS-SCCH-InformationItem-PSCH-ReconfRgst ::= SEQUENCE {
   hs-sccH-ID
                                          HS-SCCH-ID.
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
                                          TDD-ChannelisationCode,
   tdd-ChannelisationCode
   hS-SCCH-MaxPower
                                          DL-Power,
                                          HS-SICH-Information-PSCH-ReconfRqst,
   hS-SICH-Information
   iE-Extensions
                                          ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} }
HS-SCCH-InformationItem-PSCH-ReconfRgst-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
                                          OPTIONAL,
HS-SICH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
HS-SCCH-Information-LCR-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst
HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   hs-sccH-ID
                                          HS-SCCH-ID,
   timeSlotLCR
                                          TimeSlotLCR,
   midambleShiftLCR
                                          MidambleShiftLCR,
   first-TDD-ChannelisationCode
                                          TDD-ChannelisationCode,
                                          TDD-ChannelisationCode,
    second-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
                                                    CRITICALITY ignore
                                                                         EXTENSION Extended-HS-SCCH-ID
                                                                                                                PRESENCE optional } |
   -- used if the HS-SCCH identity has a value larger than 31
                                                                                                                PRESENCE optional },
   { ID id-UARFCNforNt
                                                   CRITICALITY ignore
                                                                         EXTENSION UARFCN
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
```

```
HS-SICH-Information-LCR-PSCH-ReconfRgst ::= SEQUENCE {
    hsSICH-ID
                                            HS-SICH-ID.
    timeSlotLCR
                                            TimeSlotLCR.
    midambleShiftLCR
                                            MidambleShiftLCR.
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
                                            ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                 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-ReconfRqst ::= SEQUENCE {
    hs-sccH-ID
                                            HS-SCCH-ID,
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    hS-SCCH-MaxPower
                                            DL-Power,
    hS-SICH-Information-768
                                            HS-SICH-Information-768-PSCH-ReconfRqst,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SCCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                       OPTIONAL,
HS-SCCH-InformationItem-768-PSCH-ReconfRqst-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-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
    hS-SCCH-InformationModify-PSCH-ReconfRgst
                                                    HS-SCCH-InformationModify-PSCH-ReconfRqst
                                                                                                                     OPTIONAL,
    hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst
                                                    HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst
                                                                                                                     OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
```

```
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-hS-SCCH-InformationModify-768-PSCH-ReconfRgst
                                                         CRITICALITY reject EXTENSION HS-SCCH-InformationModify-768-PSCH-ReconfRqst
              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-InformationModify-PSCH-ReconfRgst
   hS-SICH-Information
                                                                               OPTIONAL,
                                       iE-Extensions
                                                                                                                        OPTIONAL.
   . . .
HS-SCCH-InformationModifyItem-PSCH-ReconfRgst-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-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst
HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst
                                              ::= SEQUENCE {
   hs-sccH-ID
                                       HS-SCCH-ID,
   timeSlotLCR
                                       TimeSlotLCR
                                                                                   OPTIONAL.
                                       MidambleShiftLCR
   midambleShiftLCR
                                                                                   OPTIONAL.
   first-TDD-ChannelisationCode
                                       TDD-ChannelisationCode
                                                                                   OPTIONAL.
   second-TDD-ChannelisationCode
                                       TDD-ChannelisationCode
                                                                                   OPTIONAL.
   hS-SCCH-MaxPower
                                       DL-Power
                                                                                   OPTIONAL.
   hS-SICH-Information-LCR
                                       HS-SICH-InformationModify-LCR-PSCH-ReconfRgst OPTIONAL,
                                       ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
```

```
HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst-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
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,
                                          ProtocolExtensionContainer { { HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
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
                                                                                                                                   OPTIONAL.
   hS-SICH-Information-768
                                          HS-SICH-InformationModify-768-PSCH-ReconfRgst OPTIONAL.
                                          iE-Extensions
   OPTIONAL,
HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-InformationModify-768-PSCH-ReconfRgst
                                             ::= SEOUENCE {
   hsSICH-ID
                                          HS-SICH-ID.
   timeSlot
                                          TimeSlot
                                                                                         OPTIONAL.
   midambleShiftAndBurstType768
                                          MidambleShiftAndBurstType768,
   tdd-ChannelisationCode768
                                          TDD-ChannelisationCode768,
                                          ProtocolExtensionContainer { { HS-SICH-InformationModify-768-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
HS-SICH-InformationModify-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
HS-SCCH-InformationModify-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRgst
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-ReconfRast
                                                     ::= SEOUENCE {
   hs-sccH-ID
                              HS-SCCH-ID.
                              ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                             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 {
   1TGI-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-ReconfRast
                                          E-AGCH-Information-PSCH-ReconfRqst
                                                                                 OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRgst-ExtIEs} }
                                                                                                                                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-ReconfRgst ::= SEOUENCE {
                                          E-AGCH-Id,
   e-AGCH-ID
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
    tdd-ChannelisationCode
                                          TDD-ChannelisationCode,
    e-AGCH-MaxPower
                                          DL-Power,
   iE-Extensions
                                          OPTIONAL,
```

```
E-AGCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE
    e-AGCH-InformationModify-PSCH-ReconfRqst
                                                    E-AGCH-InformationModify-PSCH-ReconfRast
   iE-Extensions
                                                    ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-InformationModify-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-PSCH-ReconfRgst
E-AGCH-InformationModifyItem-PSCH-ReconfRqst
                                              ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                           TimeSlot
                                                                        OPTIONAL,
                                           MidambleShiftAndBurstType OPTIONAL,
   midambleShiftAndBurstType
    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
                                                        ::= SEOUENCE {
    e-AGCH-ID
                                       ProtocolExtensionContainer { { Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
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,
                                           ProtocolExtensionContainer { { E-HICH-Information-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                            OPTIONAL,
   iE-Extensions
E-HICH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
E-PUCH-Information-768-PSCH-ReconfRgst ::= SEQUENCE {
   1TGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
   midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    e-PUCH-Timeslot-Info
                                            E-PUCH-Timeslot-Info,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-PUCH-Information-768-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                OPTIONAL,
E-PUCH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst::= SEQUENCE {
    e-AGCH-Information-768-PSCH-ReconfRqst
                                                E-AGCH-Information-768-PSCH-ReconfRqst
                                                                                            OPTIONAL,
                                            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
                                            DL-Power,
                                            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-ReconfRqst::= SEQUENCE {
    e-AGCH-InformationModify-768-PSCH-ReconfRqst
                                                        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-ReconfRqst-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.
    iE-Extensions
                                            ProtocolExtensionContainer { { E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
E-PUCH-Information-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                                                                 CRITICALITY ignore
                                                                                 PRESENCE optional } |
    EXTENSION UARFCN
    -- 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 ::= SEOUENCE (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,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-PUCH-Timeslot-Item-InfoLCR-ExtIEs} }
                                                                                                                        OPTIONAL,
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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,
                                            ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                                         OPTIONAL,
Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-AGCH-Information-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-LCR-PSCH-ReconfRgst
E-AGCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    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,
                                            ProtocolExtensionContainer { { E-AGCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
E-AGCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                    EXTENSION UARFON
                                                                                            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,
                                                    ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRgst-ExtIEs} }
    iE-Extensions
   OPTIONAL,
Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-InformationModify-LCR-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst
E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst
                                                     ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlotLCR
                                            TimeSlotLCR
                                                                    OPTIONAL,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    first-TDD-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
```

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second-TDD-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    e-AGCH-MaxPower
                                            DL-Power
                                                                    OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                    EXTENSION UARFON
                                                                                            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-ReconfRgst E-HICH-Information-LCR-PSCH-ReconfRgst,
   iE-Extensions
                                            ProtocolExtensionContainer { { Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst-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
    e-HICH-MaxPower
                                            DL-Power,
                                            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.
                                                    ProtocolExtensionContainer { { Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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E-HICH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst
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
                                           DI-Power
                                                                    OPTIONAL,
                                            ProtocolExtensionContainer { { E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
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.
                                           CRITICALITY ignore
    { ID id-UARFCNforNt
                                                                    EXTENSION UARFCN
                                                                                                PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfEHICHs)) OF Delete-From-E-HICH-Resource-Poolitem-PSCH-ReconfRqst
Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRast ::= SEOUENCE {
    e-HICH-ID-TDD
                                                    E-HICH-ID-TDD,
    iE-Extensions
                                                    ProtocolExtensionContainer { { Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
        OPTIONAL,
Delete-From-E-HICH-Resource-PoolItem-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.
SYNC-UL-Partition-LCR ::= SEQUENCE {
    eRUCCH-SYNC-UL-codes-bitmap
                                                BIT STRING (SIZE (8)),
                                                ProtocolExtensionContainer { { SYNC-UL-Partition-LCR-ExtIEs} }
    iE-Extensions
                                                                                                                      OPTIONAL,
    . . .
SYNC-UL-Partition-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-
ReconfRqst
MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst ::= SEOUENCE (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.
MultipleFreq-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst
                                                                             CRITICALITY ignore
                                                                                                                TYPE MultipleFreq-E-PUCH-
Timeslot-Information-LCRItem-PSCH-ReconfRqst
                                                  PRESENCE optional }
MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst ::= SEOUENCE
   e-PUCH-Timeslot-InfoLCR
                                          E-PUCH-Timeslot-InfoLCR
                                                                      OPTIONAL,
   11ARFCN
                                                          UARFCN.
   iE-Extensions
                                                          ProtocolExtensionContainer { MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-
ReconfRqst-ExtIEs} }
                           OPTIONAL,
    . . .
MultipleFreg-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE
     *******************
PhysicalSharedChannelReconfigurationResponse ::= SEQUENCE
                       ProtocolIE-Container
                                                  {{PhysicalSharedChannelReconfigurationResponse-IEs}}.
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationResponse-Extensions}}
                                                                                                                             OPTIONAL,
    . . .
PhysicalSharedChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
           id-CriticalityDiagnostics
                                                                                  CriticalityDiagnostics
                                          CRITICALITY
                                                          ignore
                                                                      TYPE
                                                                                                                   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 },
    . . .
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE
   *****************
PhysicalSharedChannelReconfigurationFailure ::= SEQUENCE {
                       ProtocolIE-Container
                                                  {{PhysicalSharedChannelReconfigurationFailure-IEs}},
   protocolIEs
   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 ::= {
CauseLevel-PSCH-ReconfFailure ::= CHOICE {
                                                GeneralCauseList-PSCH-ReconfFailure,
    generalCause
    setSpecificCause
                                                SetSpecificCauseList-PSCH-ReconfFailureTDD,
    extension-CauseLevel-PSCH-ReconfFailure
                                                Extension-CauseLevel-PSCH-ReconfFailure
GeneralCauseList-PSCH-ReconfFailure ::= SEQUENCE {
    cause
                                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,
                                                    ProtocolExtensionContainer { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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-ReconfFailureTDDPRESENCE
mandatory }
Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
    pDSCHSet-ID
                            PDSCHSet-ID,
    cause
                            Cause,
```

```
OPTIONAL,
   iE-Extensions
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-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDDPRESENCE
mandatory }
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
                       PUSCHSet-ID,
   pUSCHSet-ID
   cause
                       Cause,
   iE-Extensions
                       ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} }
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 ::= SEQUENCE (SIZE (0.. maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Unsuccessful-
UARFCNItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-UARFCNItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
   mandatory }
Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
                       UARFCN,
   -- Used for 1.28 Mcps TDD to indicate the carrier on which HSDPA or HSUPA resources configuration failure occurs.
                       Cause
                                         OPTIONAL,
   -- Used to indicate the cause of HSDPA configuration failure.
   iE-Extensions
                 OPTIONAL,
Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Cause CRITICALITY ignore
                                         EXTENSION Cause
                                                             PRESENCE
                                                                        optional },
   -- Used to indicate the cause of E-DCH related configuration failure.
```

```
-- RESET REQUEST
ResetRequest ::= SEQUENCE {
    protocolIEs
                            ProtocolIE-Container
                                                         {{ResetRequest-IEs}},
                            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
    . . .
CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext))
                                                                                        OF ProtocolIE-Single-Container {{
CommunicationContextInfoItemIE-Reset }}
CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationContextInfoItem-Reset
                                                    CRITICALITY reject
                                                                            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
                                                ProtocolExtensionContainer { {CommunicationControlPortItem-Reset-ExtIEs} } 
                                                                                                                                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
                                                   {{ResetResponse-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                          OPTIONAL,
ResetResponse-IEs NBAP-PROTOCOL-IES ::= {
   {ID id-CriticalityDiagnostics
                                     CRITICALITY
                                                    ignore
                                                                       CriticalityDiagnostics
                                                                                                               PRESENCE optional },
ResetResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- INFORMATION EXCHANGE INITIATION REQUEST
InformationExchangeInitiationRequest ::= SEQUENCE {
                                                     {{InformationExchangeInitiationRequest-IEs}},
   protocolIEs
                         ProtocolIE-Container
                          ProtocolExtensionContainer
                                                   {{InformationExchangeInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL,
InformationExchangeInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-InformationExchangeID
                                                    CRITICALITY reject
                                                                          TYPE InformationExchangeID
                                                                                                                       PRESENCE mandatory
} |
     ID id-InformationExchangeObjectType-InfEx-Rqst
                                                    CRITICALITY reject
                                                                           TYPE InformationExchangeObjectType-InfEx-Rqst 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-InfEx-Rqst,
    . . .
Cell-InfEx-Rqst ::= SEQUENCE {
   c-ID
                                  C-ID,
   iE-Extensions
                                  ProtocolExtensionContainer { { CellItem-InfEx-Rgst-ExtIEs} }
                                                                                                                 OPTIONAL,
CellItem-InfEx-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- INFORMATION EXCHANGE INITIATION RESPONSE
__ *********************
InformationExchangeInitiationResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{InformationExchangeInitiationResponse-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{InformationExchangeInitiationResponse-Extensions}}
                                                                                                                 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 } |
                                                                                                                 PRESENCE optional },
    { ID id-CriticalityDiagnostics
                                                 CRITICALITY ignore TYPE CriticalityDiagnostics
    . . .
InformationExchangeInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
   cell
                              Cell-InfEx-Rsp,
    . . .
Cell-InfEx-Rsp ::= SEQUENCE {
   requestedDataValue
                                  RequestedDataValue,
```

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```
ProtocolExtensionContainer { { CellItem-InfEx-Rsp-ExtIEs} }
   iE-Extensions
                                                                                                             OPTIONAL,
CellItem-InfEx-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- INFORMATION EXCHANGE INITIATION FAILURE
__ **********************
InformationExchangeInitiationFailure ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                                    {{InformationExchangeInitiationFailure-IEs}},
                                                   {{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 {
                         ProtocolIE-Container {{InformationReport-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer {{InformationReport-Extensions}}
                                                                                        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
                                  Cell-Inf-Rprt,
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 {
                                                     {{InformationExchangeTerminationRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
                                                     {{InformationExchangeTerminationRequest-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                OPTIONAL,
InformationExchangeTerminationRequest-IES NBAP-PROTOCOL-IES ::= {
           id-InformationExchangeID
                                             CRITICALITY
                                                                                TYPE
                                                                                       InformationExchangeID
                                                                                                                   PRESENCE mandatory },
InformationExchangeTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- INFORMATION EXCHANGE FAILURE INDICATION
__ *********************
InformationExchangeFailureIndication ::= SEQUENCE {
                                                         {{InformationExchangeFailureIndication-IEs}},
   protocolIEs
                        ProtocolIE-Container
                              ProtocolExtensionContainer
                                                         {{InformationExchangeFailureIndication-Extensions}}
   protocolExtensions
                                                                                                                      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 {
                          ProtocolIE-Container
                                                     {{CellSynchronisationInitiationRequestTDD-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{CellSynchronisationInitiationRequestTDD-Extensions}}
                                                                                                             OPTIONAL,
CellSynchronisationInitiationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
     ID
           id-C-ID
                                         CRITICALITY
                                                        reject
                                                                    TYPE C-ID
                                                                                                                      PRESENCE mandatory
           id-cellSyncBurstRepetitionPeriod
                                                     CRITICALITY
                                                                    reject
                                                                               TYPE
                                                                                       CellSyncBurstRepetitionPeriod
                                                                                                                     PRESENCE mandatory
                                                                                       TimeslotInfo-CellSyncInitiationRqstTDD
          PRESENCE
     ID
                                                                    reject
                                                                                TYPE
    optional } | -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
          id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD
                                                                CRITICALITY
                                                                                                              CellSyncBurstTransInit-
CellSyncInitiationRqstTDD
                                         optional
                                                    } | -- Applicable to 3.84Mcps TDD only
                              PRESENCE
    { ID id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD
                                                                    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-CellSyncInitiationRqstTDD CRITICALITY reject EXTENSION SYNCDlCodeId-MeasureInitLCR-
CellSyncInitiationRqstTDD PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
TimeslotInfo-CellSyncInitiationRqstTDD::= SEQUENCE (SIZE (1..15)) OF TimeSlot
CellSyncBurstTransInit-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBTransmissionID
                                         CSBTransmissionID,
    sfn
    cellSyncBurstCode
                                         CellSyncBurstCode,
    cellSyncBurstCodeShift
                                         CellSyncBurstCodeShift,
    initialDLTransPower
                                         DL-Power,
                                         ProtocolExtensionContainer { { CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs} }
   iE-Extensions
CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBMeasurementID
                                         CSBMeasurementID,
```

```
cellSyncBurstCode
                                           CellSyncBurstCode,
    cellSyncBurstCodeShift
                                           CellSyncBurstCodeShift,
    synchronisationReportType
                                           SynchronisationReportType,
                                                                                   OPTIONAL,
    synchronisationReportCharacteristics
                                           SynchronisationReportCharacteristics,
                                           ProtocolExtensionContainer { { CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD-ExtIEs} }
    iE-Extensions
   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
                                           ProtocolExtensionContainer { { SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs } }
    OPTIONAL,
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBMeasurementID
                                           CSBMeasurementID,
    sfn
                                           SFN
                                                                                   OPTIONAL,
    uARFCN
                                           UARFCN.
    sYNCDlCodeId
                                           SYNCDlCodeId,
    synchronisationReportType
                                           SynchronisationReportType,
    synchronisationReportCharacteristics
                                           SynchronisationReportCharacteristics,
    iE-Extensions
                                           ProtocolExtensionContainer { { SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs } }
    OPTIONAL,
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  CELL SYNCHRONISATION INITIATION RESPONSE TDD
  *****************
CellSynchronisationInitiationResponseTDD ::= SEQUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                        {{CellSynchronisationInitiationResponseTDD-IEs}},
                                                       {{CellSynchronisationInitiationResponseTDD-Extensions}}
    protocolExtensions
                           ProtocolExtensionContainer
                                                                                                                   OPTIONAL,
```

```
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
    protocolExtensions
                           ProtocolExtensionContainer
                                                      {{CellSynchronisationInitiationFailureTDD-Extensions}}
                                                                                                                 OPTIONAL,
    . . .
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
                                                                       TYPE
                                                                              C-ID
                                                                                                                          PRESENCE
                                                                                                                                      mandatory
                                                           reject
     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
    { ID
           id-NRepetitionsPerCyclePeriod CRITICALITY
                                                                       TYPE
                                                                              NRepetitionsPerCyclePeriod PRESENCE
                                                                                                                    mandatory
                                                           reject
```

```
{ ID id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD
                                                                       CRITICALITY
    CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD
                                                           PRESENCE
                                                                       optional
                                                                                   } -- Applicable to 3.84Mcps TDD only
    { ID id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD
                                                                           CRITICALITY
                                                                                           reject
                                                                                                                      TYPE CellSyncBurstMeasInfo-
CellSyncReconfRgstTDD
                           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-
CellSyncReconfRqstTDD
                               PRESENCE optional }
                                                       -- Applicable to 1.28Mcps TDD only
    { ID id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRgstTDD
                                                                           CRITICALITY reject EXTENSION
                                                                                                                   SYNCDlCodeIdMeasInfoLCR-
CellSyncReconfRqstTDD
                           PRESENCE optional },
                                                  -- Applicable to 1.28Mcps TDD only
    . . .
CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD ::= SEOUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-
CellSyncReconfRqstTDD
CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBTransmissionID
                                               CSBTransmissionID,
    syncFrameNumberToTransmit
                                               SyncFrameNumber,
    cellSvncBurstCode
                                               CellSvncBurstCode
                                                                           OPTIONAL,
    cellSyncBurstCodeShift
                                               CellSyncBurstCodeShift
                                                                           OPTIONAL,
    dlTransPower
                                               DL-Power
                                                                           OPTIONAL.
    iE-Extensions
                                               ProtocolExtensionContainer { CellSyncBurstTransInfoItem-CellSyncReconfRgstTDD-ExtIEs} }
    OPTIONAL,
    . . .
CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasInfo-CellSyncReconfRqstTDD ::= SEQUENCE {
    cellSyncBurstMeasInfoList-CellSyncReconfRgstTDD
                                                        CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD,
    synchronisationReportType
                                                        SynchronisationReportTypeIE
                                                                                               OPTIONAL,
    synchronisationReportCharacteristics
                                                        SynchronisationReportCharacteristicsIE OPTIONAL,
                                                       ProtocolExtensionContainer { { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfoListIEs-CellSyncReconfRgstTDD }}
CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD CRITICALITY reject
                                                                                   TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD
    PRESENCE mandatory }
```

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```
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-CellSyncReconfRgstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-
CellSyncReconfRqstTDD
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive
                                            SyncFrameNumber,
    syncBurstInfo
                                            CellSyncBurstInfoList-CellSyncReconfRqstTDD,
                                            ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
CellSyncBurstMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRqstTDD
CellSyncBurstInfoItem-CellSyncReconfRgstTDD ::= SEQUENCE {
    cSBMeasurementID
                                                CSBMeasurementID,
    cellSyncBurstCode
                                                CellSyncBurstCode,
    cellSyncBurstCodeShift
                                                CellSyncBurstCodeShift,
    iE-Extensions
                                                ProtocolExtensionContainer { { CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD ::= SEQUENCE (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-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD::= SEQUENCE
   sYNCDlCodeIdMeasInfoList
                                             SYNCDlCodeIdMeasInfoList-CellSyncReconfRgstTDD,
   synchronisationReportType
                                             SynchronisationReportType
                                                                                          OPTIONAL.
   synchronisationReportCharacteristics
                                             SynchronisationReportCharacteristics
                                                                                      OPTIONAL,
   iE-Extensions
                      ProtocolExtensionContainer
                                                 { SYNCD1CodeIdMeasInfoLCR-CellSyncReconfRgstTDD-ExtIEs} } OPTIONAL,
   . . .
SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD::= SEQUENCE (SIZE (1.. maxNrOfSyncDLCodesLCR)) OF SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD
SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
   syncFrameNrToReceive
                                         SyncFrameNumber,
   sYNCDlCodeIdInfoLCR
                                         SYNCDlCodeIdInfoListLCR-CellSyncReconfRqstTDD,
                                         ProtocolExtensionContainer { { SYNCDlCodeIdMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdInfoListLCR-CellSyncReconfRgstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCDlCodeIdInfoItemLCR-
CellSyncReconfRqstTDD
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRgstTDD ::= 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 {
   protocolIEs
                         ProtocolIE-Container
                                                  {{CellSynchronisationReconfigurationResponseTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellSynchronisationReconfigurationResponseTDD-Extensions}}
                                                                                                             OPTIONAL,
CellSynchronisationReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReconfigurationResponseTDD-IEs NBAP-PROTOCOL-IES ::=
          id-CriticalityDiagnostics
                                                                                  CriticalityDiagnostics
                                                                                                             PRESENCE optional },
   { ID
                                                  CRITICALITY
  CELL SYNCHRONISATION RECONFIGURATION FAILURE TDD
  *****************
CellSynchronisationReconfigurationFailureTDD ::= SEQUENCE
   protocolIEs
                         ProtocolIE-Container
                                                   {CellSynchronisationReconfigurationFailureTDD-IEs}},
                         ProtocolExtensionContainer {{CellSynchronisationReconfigurationFailureTDD-Extensions}}
   protocolExtensions
                                                                                                            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 {
                                                  {{CellSynchronisationAdjustmentRequestTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                                                  {{CellSynchronisationAdjustmentRequestTDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                       OPTIONAL,
```

. . .

```
CellSynchronisationAdjustmentRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
         . . .
CellAdjustmentInfo-SyncAdjustmentRqstTDD::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Sinqle-Container {{ CellAdjustmentInfoItemIE-
SyncAdjustmntRqstTDD }}
CellAdjustmentInfoItemIE-SyncAdjustmntRgstTDD NBAP-PROTOCOL-IES ::= {
   mandatory }
CellAdjustmentInfoItem-SyncAdjustmentRgstTDD ::= SEOUENCE
   c-ID
                                    C-ID,
   frameAdjustmentValue
                                    FrameAdjustmentValue
                                                           OPTIONAL,
   timingAdjustmentValue
                                    TimingAdjustmentValue
                                                           OPTIONAL,
   dLTransPower
                                    DL-Power
                                                           OPTIONAL, -- Applicable to 3.84Mcps TDD only
   sfn
                                    SFN
                                                           OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { { CellAdjustmentInfoItem-SyncAdjustmntRqstTDD-ExtIEs} }
                                                                                                             OPTIONAL,
CellAdjustmentInfoItem-SyncAdjustmntRqstTDD-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 {
                                              {{CellSynchronisationAdjustmentResponseTDD-IEs}},
   protocolIEs
                      ProtocolIE-Container
                                             {{CellSynchronisationAdjustmentResponseTDD-Extensions}}
   protocolExtensions
                      ProtocolExtensionContainer
                                                                                               OPTIONAL,
   . . .
CellSynchronisationAdjustmentResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
         id-CriticalityDiagnostics
                                                              TYPE
                                                                     CriticalityDiagnostics
                                                                                                        PRESENCE optional },
                                       CRITICALITY
                                                    ignore
```

```
CELL SYNCHRONISATION ADJUSTMENT FAILURE TDD
  ******************
CellSynchronisationAdjustmentFailureTDD ::= SEQUENCE {
                                                     {{CellSynchronisationAdjustmentFailureTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{CellSynchronisationAdjustmentFailureTDD-Extensions}}
                                                                                                             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,
   cellSpecificCause
                          CellSpecificCauseList-SyncAdjustmntFailureTDD,
GeneralCauseList-SyncAdjustmntFailureTDD::= SEQUENCE {
   cause
   iE-Extensions
                                             ProtocolExtensionContainer { GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs} }
                                                                                                                              OPTIONAL,
GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
   unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD
                                                                    Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD,
   iE-Extensions
                                             ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs} }
   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
                                                              mandatory},
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD::= SEQUENCE {
                                            C-ID,
   cause
                                            Cause,
                                            ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-
   iE-Extensions
ExtIEs } }
              OPTIONAL,
    . . .
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- CELL SYNCHRONISATION TERMINATION REQUEST TDD
CellSynchronisationTerminationRequestTDD ::= SEQUENCE {
                         ProtocolIE-Container
                                                   {{CellSynchronisationTerminationRequestTDD-IEs}},
   protocolIEs
                                                  {{CellSynchronisationTerminationRequestTDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                          OPTIONAL,
CellSynchronisationTerminationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationTerminationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
          id-C-ID
                                        CRITICALITY
                                                       ignore
                                                                  TYPE
                                                                         C-ID
                                                                                                                  PRESENCE mandatory
     ID
          id-CSBTransmissionID
                                        CRITICALITY
                                                       ignore
                                                                  TYPE
                                                                         CSBTransmissionID
                                                                                                                  PRESENCE optional
     ID
          id-CSBMeasurementID
                                        CRITICALITY
                                                       ignore
                                                                  TYPE
                                                                         CSBMeasurement ID
                                                                                                                  PRESENCE optional
   CELL SYNCHRONISATION FAILURE INDICATION TDD
  ****************
CellSynchronisationFailureIndicationTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                   {{CellSynchronisationFailureIndicationTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellSynchronisationFailureIndicationTDD-Extensions}}
                                                                                                         OPTIONAL,
CellSynchronisationFailureIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
CellSynchronisationFailureIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-C-TD
                                           CRITICALITY
                                                          ignore
                                                                      TYPE
                                                                              C-ID
                                                                                                                          PRESENCE mandatory
     ID
           id-CSBTransmissionID
                                                          ignore
                                                                      TYPE
                                                                              CSBTransmissionID
                                                                                                                         PRESENCE optional
                                          CRITICALITY
           id-CSBMeasurementID
     TD
                                          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}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                                                     OPTIONAL,
CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CellSyncInfo-CellSyncReprtTDD
                                                                      TYPE CellSyncInfo-CellSyncReprtTDD
                                           CRITICALITY ignore
                                                                                                                      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
                                                                                                                    PRESENCE mandatory
SyncReportType-CellSyncReprtTDD ::= CHOICE {
```

```
intStdPhSyncInfo-CellSyncReprtTDD
                                          IntStdPhCellSyncInfo-CellSyncReprtTDD,
   lateEntrantCell
                                          NULL,
    frequencyAcquisition
                                          NULL.
IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE
    cellSvncBurstMeasuredInfo
                                              CellSyncBurstMeasInfoList-CellSyncReprtTDD,
   iE-Extensions
                                              ProtocolExtensionContainer { { IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs} }
                                                                                                                                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-CellSyncReprtTDDPRESENCE 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 {
    cellSyncBurstInfo-CellSyncReprtTDD
                                          SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
   iE-Extensions
                                          ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs} }
    . . .
CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
    cellSyncBurstAvailable
                               CellSyncBurstAvailable-CellSyncReprtTDD,
    cellSyncBurstNotAvailable NULL,
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
                                     SyncDLCodeIdAvailable-CellSyncReprtTDD,
    syncDLCodeIDNotAvailable
                                     NULL,
SyncDLCodeIdAvailable-CellSyncReprtTDD ::= SEQUENCE {
                              CellSyncBurstTimingLCR,
    syncDLCodeIdTiming
    syncDLCodeIdSIR
                              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 ::= {
```

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```
{ ID id-E-DCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore EXTENSION E-DCH-RearrangeList-Bearer-RearrangeInd PRESENCE optional },
DCH-RearrangeList-Bearer-RearrangeInd ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-RearrangeItem-Bearer-RearrangeInd
DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
   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
   iE-Extensions
                                                 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
                                                  USCH-ID.
   iE-Extensions
                                                  ProtocolExtensionContainer { { USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } 
                                                                                                                                  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,
                                                  ProtocolExtensionContainer { { HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
   iE-Extensions
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 ::= {
    ****************
-- RADIO LINK ACTIVATION COMMAND FDD
__ **********************
RadioLinkActivationCommandFDD ::= SEQUENCE {
                         ProtocolIE-Container
                                                     {{RadioLinkActivationCommandFDD-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer
                                                    {{RadioLinkActivationCommandFDD-Extensions}}
                                                                                                                 OPTIONAL.
RadioLinkActivationCommandFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
         id-NodeB-CommunicationContextID
                                                           CRITICALITY ignore TYPE
                                                                                      NodeB-CommunicationContextID
   PRESENCE
              mandatory } |
          id-DelayedActivationList-RL-ActivationCmdFDD
                                                           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
   iE-Extensions
                             ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs} } OPTIONAL,
   . . .
DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ *********************
```

```
-- RADIO LINK ACTIVATION COMMAND TDD
__ **********************
RadioLinkActivationCommandTDD ::= SEQUENCE {
   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 {
                             RL-ID,
   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\}\},
                                                   {{RadioLinkParameterUpdateIndicationFDD-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                             OPTIONAL,
```

```
RadioLinkParameterUpdateIndicationFDD-IES NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                          CRITICALITY
                                                                  TYPE
                                                                          CRNC-CommunicationContextID
                                                                                                           PRESENCE mandatory } |
                                                        ignore
     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
                                                                   EXTENSION
                                                                             E-DCH-FDD-Update-Information
                                                                                                             PRESENCE optional },
  *****************
-- RADIO LINK PARAMETER UPDATE INDICATION TDD
         ****************
RadioLinkParameterUpdateIndicationTDD ::= SEQUENCE
                                                 {{RadioLinkParameterUpdateIndicationTDD-IEs}},
   protocolIEs
                        ProtocolIE-Container
                                                 {{RadioLinkParameterUpdateIndicationTDD-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                        OPTIONAL,
RadioLinkParameterUpdateIndicationTDD-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                          CRITICALITY
                                                                  TYPE
                                                                          CRNC-CommunicationContextID
                                                                                                          PRESENCE mandatory }
                                                        ignore
   { ID id-HSDSCH-TDD-Update-Information
                                                        ignore
                                                                  TYPE
                                                                          HSDSCH-TDD-Update-Information
                                                                                                           PRESENCE optional },
                                          CRITICALITY
   . . .
RadioLinkParameterUpdateIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- MBMS NOTIFICATION UPDATE COMMAND
  MBMSNotificationUpdateCommand ::= SEQUENCE {
                        ProtocolIE-Container
                                             {{ MBMSNotificationUpdateCommand-IEs}},
   protocolIEs
                        protocolExtensions
                                                                                                        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 ::= {
    ...
}
END
```

## 9.3.4 Information Elements Definitions

```
-- Information Element 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
IMPORTS
   maxNrOfRLs,
   maxNrOfTFCs,
   maxNrOfErrors,
   maxCTFC,
   maxNrOfTFs,
   maxTTI-count,
   maxRateMatching,
   maxHS-PDSCHCodeNrComp-1,
   maxHS-SCCHCodeNrComp-1,
   maxNrOfCellSyncBursts,
   maxNrOfCombEDPDCH,
    maxNrOfEDCH-HARO-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,
maxNrOfPriorityOueues,
maxNrOfPriorityQueues-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,
maxNrOfcommonMACOueues,
maxNrOfpaqinqMACQueues,
maxNrOfHS-DSCHTBSsE-PCH,
maxGANSSSat,
maxNoGANSS,
maxSgnType,
maxHSDPAFrequency,
maxHSDPAFrequency-1,
maxGANSSSatAlmanac,
maxGANSSClockMod,
id-BroadcastCommonTransportBearerIndication,
id-MessageStructure,
```

```
id-ReportCharacteristicsType-OnModification,
id-Rx-Timing-Deviation-Value-LCR.
id-SFNSFNMeasurementValueInformation.
id-SFNSFNMeasurementThresholdInformation.
id-TUTRANGPSMeasurementValueInformation.
id-TUTRANGPSMeasurementThresholdInformation,
id-TypeOfError,
id-transportlaveraddress,
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-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,
```

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```
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-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-SixtyfourQAM-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
FROM NBAP-Constants
    Criticality,
    ProcedureID,
    ProtocolIE-ID,
    TransactionID,
```

```
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. [9] subclause 4.2.1
Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
-- According to mapping in [22].
AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete
Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN
                                                         CFN,
    transmission-Gap-Pattern-Sequence-Status
                                             Transmission-Gap-Pattern-Sequence-Status-List OPTIONAL,
                                             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,
                      TGPRC,
       tGPRC
       tGCFN
                       CFN.
       iE-Extensions
                          ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.
AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    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-Accuracy-Class
                                AOA-LCR-Accuracy-Class,
                                ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
    iE-Extensions
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,
```

active,

```
__ ______
-- ------
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-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::= SEQUENCE (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 ::= {
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 {
```

```
inactive
BundlingModeIndicator ::= ENUMERATED 
   bundling,
   no-bundling
BroadcastCommonTransportBearerIndication ::= SEQUENCE {
   commonTransportChannelID
                                  CommonTransportChannelID,
   cid
                                  C-ID,
   iE-Extensions
                                   OPTIONAL,
BroadcastCommonTransportBearerIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BroadcastReference ::= BIT STRING (SIZE (24))
-- -----
-- -----
Cause ::= CHOICE {
   radioNetwork
                        CauseRadioNetwork,
   transport
                     CauseTransport,
   protocol
                        CauseProtocol,
   misc
                        CauseMisc,
   . . .
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
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
CCTrCH-ID ::= INTEGER (0..15)
CellParameterID ::= INTEGER (0..127,...)
CellPortionID ::= INTEGER (0..maxNrOfCellPortionsPerCell-1,...)
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)
```

```
CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
   SEQUENCE {
       dl-Cost
                   INTEGER (0..65535),
                   INTEGER (0..65535),
       ul-Cost
       iE-Extensions
                           OPTIONAL.
CommonChannelsCapacityConsumptionLaw-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
                                                                                             OPTIONAL,
                                                  BindingID
   transportLayerAddress
                                                  TransportLayerAddress
                                                                                             OPTIONAL,
                                                  TnlQos
                                                                                             OPTIONAL,
    tnl-qos
    common-MACFlow-PriorityQueue-Information
                                                  Common-MACFlow-PriorityQueue-Information
                                                                                             OPTIONAL,
                                                  ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-ExtIEs } }
   iE-Extensions
                                                                                                                              OPTIONAL.
CommonMACFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommonMACFlow-Specific-InfoList-Response ::= SEOUENCE (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,
   iE-Extensions
                                                  ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-Response-ExtIEs} }
   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,
       iE-Extensions
                                                         ProtocolExtensionContainer { { Common-MACFlow-PriorityQueue-Item-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
Common-MACFlow-PriorityOueue-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
```

```
CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power
                                                      Transmitted-Carrier-Power-Value.
    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
                                   ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}
Extension-CommonMeasurementValue
Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= {
     ID id-TUTRANGPSMeasurementValueInformation
                                                          CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation
                                                                                                                         PRESENCE mandatory }
                                                          CRITICALITY ignore TYPE SFNSFNMeasurementValueInformation
     ID id-SENSENMeasurementValueInformation
                                                                                                                         PRESENCE mandatory }
     TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                  PRESENCE mandatory } |
     ID id-HS-DSCHRequiredPowerValueInformation
                                                          CRITICALITY ignore TYPE HS-DSCHRequiredPower
                                                                                                                         PRESENCE mandatory }
                                                          CRITICALITY ignore TYPE HS-DSCHProvidedBitRate
     ID id-HS-DSCHProvidedBitRateValueInformation
                                                                                                                         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-HICHTransmissionCellPortionValueCRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue
                                                                                                             PRESENCE mandatory }
    { ID id-UpPTSInterferenceValue
                                                                  CRITICALITY ignore TYPE UppTSInterferenceValue
                                                                                                                                        PRESENCE
mandatory } |
                                                                  CRITICALITY ignore TYPE DLTransmissionBranchLoadValue
    { ID id-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 }
CommonMeasurementValueInformation ::= CHOICE {
    measurement Available
                               CommonMeasurementAvailable,
    measurementnotAvailable
                               CommonMeasurementnotAvailable
CommonMeasurementAvailable::= SEQUENCE {
    commonmeasurementValue
                               CommonMeasurementValue,
    ie-Extensions
                                   ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs} } }
                                                                                                                   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,
    iE-Extensions
                                        ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information-ExtIEs} }
                                                                                                                                OPTIONAL,
Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-PhysicalChannel-Status-Information768 ::= SEQUENCE {
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information768-ExtIEs} }
                                                                                                                                   OPTIONAL,
Common-PhysicalChannel-Status-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommonTransportChannelID ::= INTEGER (0..255)
CommonTransportChannel-InformationResponse ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
    bindingID
                                        BindingID
                                                                OPTIONAL.
    transportLayerAddress
                                        TransportLayerAddress OPTIONAL,
                                        ProtocolExtensionContainer { { CommonTransportChannel-InformationResponse-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-BroadcastCommonTransportBearerIndication CRITICALITY ignore EXTENSION BroadcastCommonTransportBearerIndication
                                                                                                                                 PRESENCE optional
    { ID
           id-IPMulticastDataBearerIndication
                                                        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} }
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,
                                                ProtocolExtensionContainer { { ContinuousPacketConnectivityDTX-DRX-Information-ExtIEs } }
    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,
    iE-Extensions
                                            ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-ExtIEs } }
    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,
    iE-Extensions
                                            ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs } }
           OPTIONAL,
ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ControlGAP ::= INTEGER (1..255)
CPC-Information ::= SEQUENCE
    continuousPacketConnectivityDTX-DRX-Information
                                                                    ContinuousPacketConnectivityDTX-DRX-Information
                                                                                                                                   OPTIONAL.
    continuousPacketConnectivityDTX-DRX-Information-to-Modify
                                                                    ContinuousPacketConnectivityDTX-DRX-Information-to-Modify
                                                                                                                                   OPTIONAL,
    continuousPacketConnectivityHS-SCCH-less-Information
                                                                    ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                                                                                   OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { CPC-Information-ExtIEs} }
                                                                                                                                   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}
COI-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
COI-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
CriticalityDiagnostics ::= SEQUENCE {
   procedureID
                           ProcedureID
                                               OPTIONAL,
   triggeringMessage
                           TriggeringMessage
                                                   OPTIONAL,
                           Criticality
   procedureCriticality
                                               OPTIONAL,
   transactionID
                           TransactionID
                                                   OPTIONAL.
   ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
   iE-Extensions
                                                                                                  OPTIONAL,
CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
   SEOUENCE {
      iECriticality
                       Criticality,
      iE-ID
                       ProtocolIE-ID,
      repetitionNumber
                       RepetitionNumber0
                                            OPTIONAL,
                       ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} }
      iE-Extensions
                                                                                                     OPTIONAL,
CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      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)
-- -----
-- -----
DATA-ID ::= INTEGER (0..3)
DCH-ID ::= INTEGER (0..255)
DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem
DCH-FDD-InformationItem ::= SEQUENCE {
   payloadCRC-PresenceIndicator
                                     PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                    UL-FP-Mode,
   toAWS
                                    ToAWS,
                                     TOAWE,
   dCH-SpecificInformationList
                                    DCH-Specific-FDD-InformationList,
   iE-Extensions
                                     ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs} }
                                                                                                           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 ::= SEQUENCE {
   dCH-ID
                                    DCH-ID,
   ul-TransportFormatSet
                                    TransportFormatSet,
   dl-TransportFormatSet
                                    TransportFormatSet,
   allocationRetentionPriority
                                    AllocationRetentionPriority,
   frameHandlingPriority
                                    FrameHandlingPriority,
   gE-Selector
                                    QE-Selector,
                                    iE-Extensions
                                                                                                           OPTIONAL,
DCH-Specific-FDD-Item-ExtlEs 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 ::= {
    PRESENCE optional }, -- FDD
onlv
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,
   t.oAWE
                                 ToAWE,
   dCH-SpecificInformationList
                                 DCH-Specific-TDD-InformationList,
   iE-Extensions
                                    ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs} } 
                                                                                                  OPTIONAL,
DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-TnlQos
                                 CRITICALITY ignore
                                                    EXTENSION TnlOos
                                                                         PRESENCE optional },
   . . .
DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item
DCH-Specific-TDD-Item ::= SEQUENCE {
   dCH-TD
                                    DCH-ID,
   ul-CCTrCH-ID
                                    CCTrCH-ID,
   dl-CCTrCH-ID
                                    CCTrCH-ID.
   ul-TransportFormatSet
                                    TransportFormatSet,
   dl-TransportFormatSet
                                    TransportFormatSet,
   allocationRetentionPriority
                                    AllocationRetentionPriority,
   frameHandlingPriority
                                    FrameHandlingPriority,
   qE-Selector
                                    OE-Selector
                                                              OPTIONAL,
   -- This IE shall be present if DCH is part of set of Coordinated DCHs
   iE-Extensions
                                    OPTIONAL,
DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   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-TnlQos
                                       CRITICALITY ignore
                                                              EXTENSION TnlQos
                                                                                      PRESENCE optional },
    . . .
DCH-ModifySpecificInformation-FDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD
DCH-ModifySpecificItem-FDD::=
                               SEQUENCE {
    dCH-ID
                                                   DCH-ID,
    ul-TransportFormatSet
                                                   TransportFormatSet
                                                                              OPTIONAL,
    dl-TransportFormatSet
                                                                              OPTIONAL,
                                                   TransportFormatSet
    allocationRetentionPriority
                                                   AllocationRetentionPriority OPTIONAL,
                                                                              OPTIONAL,
    frameHandlingPriority
                                                   FrameHandlingPriority
    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-ModifvItem-TDD ::= SEOUENCE {
   ul-FP-Mode
                                       UL-FP-Mode
                                                       OPTIONAL,
    toAWS
                                       ToAWS
                                                       OPTIONAL,
                                       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 ::= {
                                       CRITICALITY ignore
                                                                                      PRESENCE optional },
    {ID id-TnlOos
                                                              EXTENSION TnlOos
    . . .
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
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 ::= {
     ID id-Rx-Timing-Deviation-Value-LCR
                                          CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                          PRESENCE mandatory } |
     ID id-Angle-Of-Arrival-Value-LCR
                                              CRITICALITY reject TYPE 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 },
DedicatedMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                               DedicatedMeasurementAvailable,
    measurementnotAvailable
                               DedicatedMeasurementnotAvailable
DedicatedMeasurementAvailable::= SEOUENCE {
    dedicatedmeasurementValue
                                   DedicatedMeasurementValue,
    cFN
                                                             OPTIONAL.
    ie-Extensions
                                   OPTIONAL,
    . . .
DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementnotAvailable ::= NULL
DelayedActivation ::= CHOICE {
    separate-indication
                           NULL
DelayedActivationUpdate ::= CHOICE {
    activate
                   Activate-Info,
    deactivate
                   Deactivate-Info
Activate-Info ::= SEQUENCE {
   activation-type
                           Execution-Type,
    initial-dl-tx-power
                           DL-Power,
    firstRLS-Indicator
                           FirstRLS-Indicator
                                                                                     OPTIONAL, --FDD Only
    propagation-delay
                           PropagationDelay
                                                                                     OPTIONAL, --FDD Only
```

```
ProtocolExtensionContainer { { Activate-Info-ExtIEs} }
   iE-Extensions
                                                                        OPTIONAL,
Activate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Deactivate-Info ::= SEQUENCE {
   deactivation-type
                       Execution-Type,
                       ProtocolExtensionContainer { { Deactivate-Info-ExtIEs} }
   iE-Extensions
                                                                           OPTIONAL.
Deactivate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Execution-Type ::= CHOICE {
   synchronised
                CFN,
   unsynchronised NULL
DeltaSIR
                  ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.
DGANSSCorrections ::= SEOUENCE {
   dGANSS-ReferenceTime
                                INTEGER (0..119),
   dGANSS-Information
                                DGANSS-Information,
   ie-Extensions
                                 OPTIONAL,
DGANSSCorrections-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
   ganss-prc
                                 INTEGER (-2047..2047),
   ganss-rrc
                                 INTEGER (-127..127),
   ie-Extensions
                                 OPTIONAL,
DGANSS-SignalInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DGANSSThreshold ::= SEQUENCE {
   pRCDeviation
                                 PRCDeviation,
                                 ProtocolExtensionContainer { { DGANSSThreshold-ExtIEs } }
   ie-Extensions
                                                                                                 OPTIONAL,
DGANSSThreshold-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,
           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
                                                                                                                        PRESENCE optional } |
                                                             CRITICALITY ignore
                                                                                  EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
                                                                                                                        PRESENCE optional },
    { ID id-Minimum-DL-Power-TimeslotLCR-InformationItem CRITICALITY ignore
                                                                                 EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
DL-Timeslot768-Information ::= SEOUENCE (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} }
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'
                                        DL-ReferencePowerInformationList
    dLReferencePowerList-DL-PC-Rgst
                                                                                 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,
                               ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
   iE-Extensions
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
                               TimeSlot,
    dL-TimeslotISCP
                               DL-TimeslotISCP,
    iE-Extensions
                               ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} }
                                                                                                                      OPTIONAL,
DL-TimeslotISCPInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-TimeslotISCPInfoLCR ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR
DL-TimeslotISCPInfoItemLCR ::= SEQUENCE {
    timeSlotLCR
                               TimeSlotLCR,
```

```
dL-TimeslotISCP
                                DL-TimeslotISCP,
    iE-Extensions
                                ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }
                                                                                                                            OPTIONAL,
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,
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,
                                            ProtocolExtensionContainer { {DRX-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
DRX-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DRX-Information-to-Modify ::= CHOICE {
                    DRX-Information-to-Modify-Items,
    modify
    deactivate
                    NULL,
    . . .
DRX-Information-to-Modify-Items ::= SEQUENCE {
    uE-DRX-Cvcle
                                                                     UE-DRX-Cvcle
                                                                                                                      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 ::= {
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
                                                                                                                 PRESENCE optional } |
                                       CRITICALITY ignore
                                                              EXTENSION
                                                                          BindingID
    -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                       CRITICALITY ignore
                                                                                                                 PRESENCE optional } |
                                                               EXTENSION
                                                                          TransportLayerAddress
    -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-TnlOos
                                       CRITICALITY ignore
                                                                                                                  PRESENCE optional }.
                                                               EXTENSION TnlOos
DsField ::= BIT STRING (SIZE (8))
DTX-Cycle-2ms-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,
```

```
ProtocolExtensionContainer { { DTX-Cycle-2ms-Items-ExtIEs} }
   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
                                             ProtocolExtensionContainer { { DTX-Cycle-2ms-to-Modify-Items-ExtIEs} }
                                                                                                                     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-Cvcle-10ms
                                 MAC-DTX-Cvcle-10ms,
                                             iE-Extensions
                                                                                                                  OPTIONAL,
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,
   iE-Extensions
                                             ProtocolExtensionContainer { { DTX-Cycle-10ms-to-Modify-Items-ExtIEs} }
                                                                                                                        OPTIONAL,
DTX-Cycle-10ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Information ::= SEOUENCE {
   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
   cOI-DTX-Timer
                             COI-DTX-Timer,
                              UE-DPCCH-burst1,
   uE-DPCCH-burst1
   uE-DPCCH-burst2
                              UE-DPCCH-burst2,
   iE-Extensions
                              ProtocolExtensionContainer { {DTX-Information-ExtIEs} } OPTIONAL,
    . . .
```

```
DTX-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DTX-Information-to-Modify ::= CHOICE {
   modify
                   DTX-Information-to-Modify-Items,
                   NULL,
   deactivate
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
                                                                              OPTIONAL,
                                      MAC-Inactivity-Threshold
                                   COI-DTX-Timer
   cOI-DTX-Timer
                                                                      OPTIONAL,
                                   UE-DPCCH-burst1
                                                                      OPTIONAL,
   uE-DPCCH-burst1
   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 ::= {
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-FDD-Code-Information ::= CHOICE {
   replace
                           E-AGCH-FDD-Code-List,
   remove
                           NULL,
    . . .
E-AGCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfE-AGCHs)) OF FDD-DL-ChannelisationCodeNumber
E-DCH-Capability ::= ENUMERATED {
   e-DCH-capable,
   e-DCH-non-capable
```

```
E-DCHCapacityConsumptionLaw ::= SEQUENCE {
       e-DCH-SF-allocation E-DCH-SF-allocation,
       dl-Cost-1 INTEGER (0..65535)
                                                                                                                  OPTIONAL,
       dl-Cost-2
                            INTEGER (0..65535)
                                                                                                                  OPTIONAL,
       iE-Extensions ProtocolExtensionContainer { { E-DCHCapacityConsumptionLaw-ExtIEs } }
                                                                                                                  OPTIONAL,
E-DCHCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TDD-CapacityConsumptionLaw ::= SEQUENCE {
       ul-Cost
                INTEGER (0..65535),
       dl-Cost
                          INTEGER (0..65535)
                                                                                                                OPTIONAL,
                              ProtocolExtensionContainer { { E-DCH-TDD-CapacityConsumptionLaw-ExtIEs } }
       iE-Extensions
                                                                                                                  OPTIONAL,
E-DCH-TDD-CapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-SF-allocation ::= SEQUENCE ( SIZE(1..maxNrOfCombEDPDCH) ) OF
   SEQUENCE {
       ul-Cost-1
                    INTEGER (0..65535),
                  INTEGER (0..65535),
       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-RNTT
                                                                                                                                            OPTIONAL,
                                                     E-RNTT
    secondary-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-ExtlEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-Default-Serving-Grant-in-DTX-Cycle2
                                                                                                                            PRESENCE optional },
                                                     CRITICALITY ignore
                                                                              EXTENSION E-Serving-Grant-Value
    . . .
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,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Information-ExtIEs} }
                                                                                                                                            OPTIONAL,
E-DCH-FDD-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-E-DCH-PowerOffset-for-SchedulingInfo
                                                         CRITICALITY ignore EXTENSION
                                                                                          E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                                   PRESENCE optional } |
     ID id-SixteenOAM-UL-Operation-Indicator
                                                         CRITICALITY reject EXTENSION
                                                                                          SixteenOAM-UL-Operation-Indicator
                                                                                                                                   PRESENCE optional },
    . . .
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 {
```

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```
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-SixteenOAM-UL-Operation-Indicator
                                                         CRITICALITY reject EXTENSION
                                                                                         SixteenOAM-UL-Operation-Indicator
                                                                                                                                  PRESENCE optional },
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,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
E-DCH-FDD-Update-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
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
                                                     HARQ-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-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 } }
                                                                                                                         OPTIONAL
    iE-Extensions
E-DCH-LogicalChannelInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...,5743..11498)
E-DCH-PowerOffset-for-SchedulingInfo ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
E-DCH-Processing-Overload-Level ::= INTEGER (0..10,...)
E-DCH-Reference-Power-Offset ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
E-DCH-MACdPDU-SizeList ::= SEQUENCE (SIZE (1.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-MACdPDU-SizeListItem ::= SEQUENCE {
    mACdPDU-Size
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-MACdPDU-SizeListItem-ExtIEs } }
                                                                                                                OPTIONAL.
E-DCH-MACdPDU-SizeListItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-LogicalChannelToModify ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToModifyItem
E-DCH-LogicalChannelToModifyItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator
                                                                    OPTIONAL,
    schedulingInformation
                                    SchedulingInformation
                                                                OPTIONAL,
                                    MACesGuaranteedBitRate
    mACesGuaranteedBitRate
                                                                OPTIONAL,
    e-DCH-DDI-Value
                                    E-DCH-DDI-Value
                                                                    OPTIONAL,
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeToModifyList,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToModifyItem-ExtIEs } }
    iE-Extensions
                                                                                                                       OPTIONAL,
E-DCH-LogicalChannelToModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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.
   iE-Extensions
                                  ProtocolExtensionContainer { { E-DCH-LogicalChannelToDeleteItem-ExtIEs } }
                                                                                                                OPTIONAL,
E-DCH-LogicalChannelToDeleteItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
LogicalChannelID ::= INTEGER (1..15)
E-DCH-HARO-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
E-DCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)
E-DCH-MACdFlows-Information ::= SEQUENCE {
   e-DCH-MACdFlow-Specific-Info
                                                 E-DCH-MACdFlow-Specific-InfoList,
   iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-MACdFlows-Information-ExtIEs} }
                                                                                                                                 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,
   tnl0os
                                                 Tnl0os
                                                                                                                                 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 ::= {
   . . .
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.
   hARO-Process-Allocation-NonSched-2ms-EDCH
                                                  HARO-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-HARO-PO-FDD
                                                  E-DCH-HARO-PO-FDD
                                                                                                                                    OPTIONAL,
    eDCH-MACdFlow-Multiplexing-List
                                                  E-DCH-MACdFlow-Multiplexing-List
                                                                                                                                    OPTIONAL,
    eDCH-Grant-Type-Information
                                                  E-DCH-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,
    hARO-Process-Allocation-NonSched-2ms
                                                HARO-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,...)
-- Unit bit/s, Range 0..2^24-1, Step 1 bit
Maximum-Target-ReceivedTotalWideBandPower ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [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,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
    . . .
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.
    iE-Extensions
                                        ProtocolExtensionContainer { { E-DCH-serving-cell-change-successful-ExtIEs} } OPTIONAL,
    . . .
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
                                        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 ::= {
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-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..maxNrofSigSegRGHI-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,
   iE-Extensions
                                                    ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} }
                                                                                                                        OPTIONAL,
E-TFCS-Information-ExtIEs 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
                                                                EXTENSION E-DPDCH-PowerInterpolation
                                                                                                                     PRESENCE optional },
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,
                                        ProtocolExtensionContainer { { E-DCHProvidedBitRate-Item-ExtIEs} }
   iE-Extensions
                                                                                                                        OPTIONAL,
E-DCHProvidedBitRate-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
                                                E-DCH-Non-Scheduled-Grant-Info OPTIONAL,
    e-DCH-TDD-Information
                                                E-DCH-TDD-Information,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-Information-ExtIEs} }
                                                                                                                        OPTIONAL,
E-DCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-PUCH-Information ::= SEQUENCE {
   minCR
                                                CodeRate,
    maxCR
                                                CodeRate,
                                                HARQ-Info-for-E-DCH,
    harqInfo
```

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```
n-E-UCCH
                                                N-E-UCCH.
   iE-Extensions
                                                ProtocolExtensionContainer { { E-PUCH-Information-ExtIEs } }
                                                                                                                        OPTIONAL,
E-PUCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-TFCS-Information-TDD ::= SEOUENCE {
    e-DCH-QPSK-RefBetaInfo
                                                E-DCH-QPSK-RefBetaInfo,
    e-DCH-sixteenOAM-RefBetaInfo
                                                E-DCH-sixteenQAM-RefBetaInfo,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-TFCS-Information-TDD-ExtIEs } }
                                                                                                                        OPTIONAL,
E-TFCS-Information-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-OPSK-RefBetaInfo ::= SEOUENCE (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,
                                                    E-DCH-MACdFlow-Multiplexing-List
    eDCH-MACdFlow-Multiplexing-List
                                                                                                            OPTIONAL,
    eDCH-Grant-TypeTDD
                                                    E-DCH-Grant-TypeTDD,
    eDCHLogicalChannelInformation
                                                    E-DCH-LogicalChannelInformation,
                                                    E-DCH-MACdFlow-Retransmission-Timer
    eDCH-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-HARO-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,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info-ExtIEs } }
                                                                                                                              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,
    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-TDD-Information-ExtIEs } }
                                                                                                                        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,
    scheduled-E-HICH-Specific-InformationResp
                                                     Scheduled-E-HICH-Specific-Information-ResponseLCRTDD
                                                                                                                     OPTIONAL,
                                                                                                                                -- 1.28Mcps TDD only
```

```
ProtocolExtensionContainer { { E-DCH-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                             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 {
                                    EI.
    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 ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-TDD-MACdFlow-Specific-InformationResp-Item
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
    iE-Extensions
                                                    ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs } }
```

```
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.
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Information-Reconfig-ExtIEs} } OPTIONAL,
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 ::= {
    . . .
E-DCH-TDD-Information-to-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-ModifyTDDItem
E-DCH-MACdFlow-ModifyTDDItem ::= SEOUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                     AllocationRetentionPriority
                                                                                      OPTIONAL,
    transportBearerRequestIndicator
                                                     TransportBearerRequestIndicator,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                                                  OPTIONAL,
                                                     TransportLayerAddress
    tnl0os
                                                     Tnl0os
                                                                                  OPTIONAL,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH
                                                                                                                      OPTIONAL,
    eDCH-HARQ-PO-TDD
                                                     E-DCH-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 [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.
   iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-768-Information-ExtIEs} }
                                                                                                                        OPTIONAL,
E-DCH-768-Information-ExtlEs 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
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info768-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
E-DCH-Non-Scheduled-Grant-Info768-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TDD-Information768 ::= SEQUENCE {
    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.
                                                 ProtocolExtensionContainer { { E-DCH-768-Information-Reconfig-ExtIEs} } OPTIONAL,
    iE-Extensions
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,
                                                 HARO-Info-for-E-DCH,
    harqInfo
    pRXdes-base
                                                 PRXdes-base,
    e-PUCH-TPC-StepSize
                                                 TDD-TPC-UplinkStepSize-LCR,
    e-AGCH-TPC-StepSize
                                                 TDD-TPC-DownlinkStepSize,
                                                 ProtocolExtensionContainer { { E-PUCH-LCR-Information-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
E-PUCH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
E-DCH-Non-Scheduled-Grant-LCR-Info ::= SEQUENCE {
    timeslotResourceLCR
                                                 E-DCH-TimeslotResourceLCR,
    powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriod
                                                 RepetitionPeriod,
    repetitionLength
                                                 RepetitionLength,
                                                 ENUMERATED {v0, v1},
    subframeNumber
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
    tdd-ChannelisationCode
                                                 TDD-ChannelisationCode,
    n-E-UCCHLCR
                                                N-E-UCCHLCR,
    e-HICH-LCR-Information
                                                 E-HICH-LCR-Information,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs } }
                                                                                                                                  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 ::= {
    { 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.
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,
                                                ProtocolExtensionContainer { { E-DCH-LCRTDD-Information-ExtIEs } }
   iE-Extensions
                                                                                                                       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.
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-Information-TDD
    e-DCH-MACdFlows-to-Add
                                                                                                                     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
                                                                                                                     OPTIONAL,
    e-DCH-TDD-Information-to-Modify
    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
Enhanced-FACH-Capability ::= ENUMERATED {
   enhanced-FACH-capable,
   enhanced-FACH-non-capable
Enhanced-PCH-Capability ::= ENUMERATED {
   enhanced-PCH-capable,
   enhanced-PCH-non-capable
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 [22]
Extended-HS-SCCH-ID
                                 ::= INTEGER (32..255)
Extended-HS-SICH-ID
                                 ::= INTEGER (32..255)
Extended-E-HICH-ID-TDD
                                 ::= INTEGER (32..255)
-- ------
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 [9]. The maximum value is equal to the DL spreading factor -1--
FDD-DL-CodeInformation ::= SEOUENCE (SIZE (1..maxNrOfCodes)) OF FDD-DL-CodeInformationItem
FDD-DL-CodeInformationItem ::= SEQUENCE {
   dl-ScramblingCode
                                        DL-ScramblingCode,
   fdd-DL-ChannelisationCodeNumber
                                        FDD-DL-ChannelisationCodeNumber.
   transmissionGapPatternSequenceCodeInformation
                                                   {\tt Transmission Gap Pattern Sequence Code Information}
                                                                                                             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 [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-Almanac ::= SEQUENCE{
   ganss-wk-number
                                INTEGER (0..255),
   qANSS-AlmanacModel
                                GANSS-AlmanacModel,
                                ie-Extensions
                                                                                             OPTIONAL,
GANSS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-AlmanacModel ::= CHOICE {
   qANSS-keplerianParameters
                                GANSS-KeplerianParametersAlm,
   . . .
GANSS-Clock-Model ::= SEQUENCE (SIZE (1..maxGANSSClockMod)) OF GANSS-SatelliteClockModelItem
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 ::= {
GANSS-CommonDataInfoReq ::= SEQUENCE {
   ionospheric-Model
                                BOOLEAN
                                                                                            OPTIONAL,
   ie-Extensions
                                OPTIONAL
GANSS-CommonDataInfoReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
GANSS-Data-Bit-Assistance ::= SEQUENCE {
   ganssTod
                                INTEGER (0..59,...),
   dataBitAssistancelist
                                GANSS-DataBitAssistanceList,
```

```
ie-Extensions
                                                                                                               OPTIONAL,
GANSS-Data-Bit-Assistance-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-DataBitAssistanceList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-DataBitAssistanceItem
GANSS-DataBitAssistanceItem ::= SEQUENCE {
   satId
                                  INTEGER (0..63),
   dataBitAssistanceSqnList
                                  GANSS-DataBitAssistanceSqnList,
                                  ProtocolExtensionContainer { GANSS-DataBitAssistanceItem-ExtIEs } }
   ie-Extensions
                                                                                                               OPTIONAL,
GANSS-DataBitAssistanceItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-DataBitAssistanceSqnList ::= SEQUENCE (SIZE (1..maxSqnType)) OF GANSS-DataBitAssistanceSqnItem
GANSS-DataBitAssistanceSqnItem ::= SEQUENCE
   ganss-SignalId
                          GANSS-Signal-ID,
                          BIT STRING (SIZE (1..1024)),
   qanssDataBits
                          ProtocolExtensionContainer { GANSS-DataBitAssistanceSqnItem-ExtIEs } }
                                                                                                               OPTIONAL.
   ie-Extensions
GANSS-DataBitAssistanceSqnItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Data-Bit-Assistance-RegItem ::= SEQUENCE {
   ganssTod
                                          INTEGER (0..86399),
                                          GANSS-Data-Bit-Assistance-ReqList,
   ganss-Data-Bit-Assistance-RegList
                                          ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ReqItem-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
GANSS-Data-Bit-Assistance-Regitem-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Data-Bit-Assistance-ReqList ::= SEQUENCE (SIZE (1..maxSgnType)) OF SEQUENCE {
   ganssDataBitAssistance
                                      BOOLEAN,
   iE-Extensions
                                      ProtocolExtensionContainer { GANSS-Data-Bit-Assistance-ReqList-ExtIEs } }
                                                                                                                    OPTIONAL,
```

```
GANSS-Data-Bit-Assistance-RegList-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
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,
                                                BIT STRING (SIZE (9))
                                                                                                                           OPTIONAL,
    ganss-Time-Model-GNSS-GNSS
    ganss-UTC-Model
                                                BOOLEAN
                                                                                                                           OPTIONAL,
    ganss-Almanac
                                                BOOLEAN
                                                                                                                           OPTIONAL,
    ganss-Real-Time-Integrity
                                                BOOLEAN
                                                                                                                           OPTIONAL,
    ganss-Data-Bit-Assistance-Req
                                                GANSS-Data-Bit-Assistance-ReqItem
                                                                                                                           OPTIONAL,
                                                ProtocolExtensionContainer { GANSS-GenericDataInfoRegItem-ExtIEs } }
    ie-Extensions
                                                                                                                           OPTIONAL,
GANSS-GenericDataInfoReqItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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
                                                ProtocolExtensionContainer { { GANSS-Generic-DataItem-ExtIEs } }
                                                                                                                           OPTIONAL,
GANSS-Generic-DataItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-ID ::= INTEGER(0..7,...)
GANSS-Information ::= SEQUENCE {
    gANSS-CommonDataInfoReq
                                        GANSS-CommonDataInfoReq
                                                                                                                     OPTIONAL,
    gANSS-GenericDataInfoReqList
                                        GANSS-GenericDataInfoReqList
                                                                                                                     OPTIONAL,
    ie-Extensions
                                        ProtocolExtensionContainer { GANSS-Information-ExtIEs } }
                                                                                                                      OPTIONAL,
```

```
GANSS-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                                        BIT STRING (SIZE (12)),
                                        BIT STRING (SIZE (12)),
    alpha-one-ionos
    alpha-two-ionos
                                        BIT STRING (SIZE (12)),
    qANSS-IonosphereRegionalStormFlags GANSS-IonosphereRegionalStormFlags
                                                                                                                     OPTIONAL
                                        ProtocolExtensionContainer { GANSS-Ionospheric-Model-ExtIEs } }
                                                                                                                     OPTIONAL
    ie-Extensions
    . . .
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,
    ie-Extensions
                                        ProtocolExtensionContainer { GANSS-IonosphereRegionalStormFlags-ExtIEs } } OPTIONAL,
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-1sb-nav
                                        INTEGER (0..511),
    ganss-omega-nav
                                        BIT STRING (SIZE (32)),
    delta-n-nav
                                        BIT STRING (SIZE (16)),
   m-zero-nav
                                        BIT STRING (SIZE (32)),
    omegadot-nav
                                        BIT STRING (SIZE (24)),
```

```
ganss-e-1sb-nav
                                         INTEGER (0..33554431),
    idot-nav
                                        BIT STRING (SIZE (14)),
    a-sgrt-lsb-nav
                                        INTEGER (0..67108863),
    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-Navigation-Model-And-Time-Recovery ::= SEQUENCE
    ganss-Transmission-Time
                                GANSS-Transmission-Time,
    non-broadcastIndication
                                ENUMERATED{true}
                                                         OPTIONAL,
-- The three following IEs shall be present if the GANSS Orbit Model IE indicates 'Keplerian Parameters'
    toe-c-msb
                                INTEGER (0..31)
                                                         OPTIONAL,
    e-msb
                                INTEGER (0..127)
                                                         OPTIONAL,
                                INTEGER (0..63)
                                                         OPTIONAL,
    sqrtA-msb
    ganssSatInfoNav
                                GANSS-Sat-Info-Nav,
                                ProtocolExtensionContainer { GANSS-Navigation-Model-And-Time-Recovery-ExtIEs } } OPTIONAL,
    ie-Extensions
    . . .
GANSS-Navigation-Model-And-Time-Recovery-ExtlEs 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,
                                         ProtocolExtensionContainer { { GANSS-RealTimeInformationItem-ExtIEs } }
    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),
    ie-Extensions
                                        ProtocolExtensionContainer { GANSS-RX-Pos-ExtIEs } } OPTIONAL,
    . . .
GANSS-RX-Pos-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-SatelliteClockModelItem ::= SEOUENCE {
    t-oc-lsb
                                        INTEGER (0..511),
    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,
                                        ProtocolExtensionContainer { { GANSS-SatelliteClockModelItem-ExtIEs } }
                                                                                                                      OPTIONAL,
    ie-Extensions
GANSS-SatelliteClockModelItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
GANSS-SatelliteInformationKP ::= SEQUENCE (SIZE (1..maxGANSSSatAlmanac)) OF GANSS-SatelliteInformationKPItem
GANSS-SatelliteInformationKPItem ::= SEQUENCE {
    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)),
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-SatelliteInformationKPItem-ExtIEs } } OPTIONAL,
GANSS-SatelliteInformationKPItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GANSS-Sat-Info-Nav ::= SEQUENCE (SIZE(1..maxGANSSSat)) OF SEQUENCE {
    satId
                                INTEGER (0..63),
    svHealth
                                BIT STRING (SIZE(5)),
    boi
                                BIT STRING (SIZE(10)),
    ganssClockModel
                                GANSS-Clock-Model,
    ganssOrbitModel
                                GANSS-Orbit-Model,
    ie-Extensions
                                ProtocolExtensionContainer { GANSS-Sat-Info-Nav-ExtIEs } } OPTIONAL,
GANSS-Sat-Info-Nav-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-Model ::= SEQUENCE {
    ganss-time-model-Ref-Time
                                                INTEGER (0..37799),
    ganss-t-a0
                                        INTEGER (-2147483648.. 2147483647),
    ganss-t-a1
                                        INTEGER (-8388608.. 8388607)
                                                                                                                      OPTIONAL,
    ganss-t-a2
                                        INTEGER (-64..63)
                                                                                                                      OPTIONAL,
                                        ENUMERATED{qps,...},
    qnss-to-id
                                        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 {
    ganssDay
                                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)),
                                        BIT STRING (SIZE (8)),
    t-ot-utc
    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-ut.c
                                        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 ::= {
GapLength
                       ::= INTEGER (1..14)
-- Unit slot
GapDuration
                       ::= INTEGER (1..144,...)
-- Unit frame
GenericTrafficCategory ::= BIT STRING (SIZE (8))
GPS-Almanac ::= SEQUENCE {
    wna-alm
                         BIT STRING (SIZE (8)),
                        SAT-Info-Almanac,
   sat-info-almanac
    sVGlobalHealth-alm BIT STRING (SIZE (364)) OPTIONAL,
                         ProtocolExtensionContainer { { GPS-Almanac-ExtIEs} }
    ie-Extensions
                                                                                     OPTIONAL,
```

```
GPS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SAT-Info-Almanac-ExtItem
                                                                                                          PRESENCE optional },
                                      CRITICALITY ignore
                                                                           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)),
                        ProtocolExtensionContainer { GPS-Ionospheric-Model-ExtIEs} }
  ie-Extensions
                                                                                           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 {
  gps-navigation-model-and-time-recovery,
  gps-ionospheric-model,
  qps-utc-model,
  gps-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-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
GPS-NavigationModel-and-TimeRecovery ::= SEOUENCE (SIZE (1..maxNoSat)) OF GPS-NavandRecovery-Item
GPS-NavandRecovery-Item ::= SEQUENCE {
  tx-tow-nav
                                   INTEGER (0..1048575),
  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)),
                                   BIT STRING (SIZE (16)),
 c-rs-nav
  delta-n-nav
                                   BIT STRING (SIZE (16)),
 m-zero-nav
                                   BIT STRING (SIZE (32)),
                                   BIT STRING (SIZE (16)),
  c-uc-nav
  qps-e-nav
                                   BIT STRING (SIZE (32)),
  c-us-nav
                                   BIT STRING (SIZE (16)),
  a-sgrt-nav
                                   BIT STRING (SIZE (32)),
  t-oe-nav
                                   BIT STRING (SIZE (16)),
  fit-interval-flag-nav
                                   BIT STRING (SIZE (1)),
                                   BIT STRING (SIZE (5)),
  aodo-nav
  c-ic-nav
                                   BIT STRING (SIZE (16)),
                                   BIT STRING (SIZE (32)),
  omega-zero-nav
  c-is-nav
                                   BIT STRING (SIZE (16)),
 i-zero-nav
                                   BIT STRING (SIZE (32)),
 c-rc-nav
                                   BIT STRING (SIZE (16)),
  qps-omega-nav
                                   BIT STRING (SIZE (32)),
  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),
   iE-Extensions
                         ProtocolExtensionContainer { GPS-RX-POS-ExtIEs} } OPTIONAL,
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)),
  a-zero-utc
                      BIT STRING (SIZE (32)),
  t-ot-utc
                   BIT STRING (SIZE (8)),
  delta-t-ls-utc BIT STRING (SIZE (8)),
                   BIT STRING (SIZE (8)),
  w-n-t-utc
  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 ::= {
-- ------
HARQ-Info-for-E-DCH ::= ENUMERATED {
   rv0,
   rvtable
HARQ-MemoryPartitioning ::= CHOICE {
```

```
implicit
                  HARQ-MemoryPartitioning-Implicit,
   explicit
                  HARO-MemoryPartitioning-Explicit,
HARO-MemoryPartitioning-Implicit ::= SEQUENCE {
   number-of-Processes
                             INTEGER (1..8,...,12 | 14 | 16),
   iE-Extensions
                              ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Implicit-ExtIEs } }
                                                                                                         OPTIONAL.
HARQ-MemoryPartitioning-Implicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HARO-MemoryPartitioning-Explicit
                                ::= SEQUENCE {
   hARO-MemoryPartitioningList
                                     HARO-MemoryPartitioningList,
   iE-Extensions
                                     ProtocolExtensionContainer { { HARO-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
   HARO-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHAROProcesses)) OF HARO-MemoryPartitioningItem
HARQ-MemoryPartitioningInfoExtForMIMO ::= SEQUENCE (SIZE (4 | 6 | 8)) OF HARQ-MemoryPartitioningItem
HARQ-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,...},
   iE-Extensions
                                     ProtocolExtensionContainer { { HARQ-MemoryPartitioningItem-ExtIEs } }
                                                                                                            OPTIONAL,
HARQ-MemoryPartitioningItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
HARQ-Preamble-Mode ::= ENUMERATED {
  mode0.
   mode1
HARQ-Process-Allocation-2ms-EDCH ::= BIT STRING ( SIZE (maxNrOfEDCHHARQProcesses2msEDCH) )
HARQ-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,
                                        ProtocolExtensionContainer { { HS-DSCHProvidedBitRate-Item-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
HS-DSCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHProvidedBitRateValue ::= INTEGER(0..16777215,...)
-- except for 7.68Mcps TDD Unit bit/s, Range 0..2^24-1, Step 1 bit
-- 7.68Mcps TDD Unit 2bit/s, Range 0..2^24-1, 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-DSCHProvidedBitRate,
    hS-DSCHProvidedBitRateValue
    iE-Extensions
                                    ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} } OPTIONAL,
    . . .
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-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,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-DSCHRequiredPower-Item-ExtIEs} }
                                                                                                                        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
                                            ProtocolExtensionContainer { { HS-DSCHRequiredPowerPerUEInformation-Item-ExtIEs} }
                                                                                                                                    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
                                ProtocolExtensionContainer { { HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs} }
    . . .
HS-DSCHRequiredPowerValueInformation-For-CellPortion-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-InfoList
    commonMACFlow-Specific-Information
                                                                                                                            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 {
    cCCH-PriorityQueue-Id
                                                                     PriorityQueue-Id,
                                                                     PriorityQueue-Id,
    sRB1-PriorityQueue-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,
                                                 CQI-Feedback-Cycle,
    cqiFeedback-CycleK
    cqiRepetitionFactor
                                                 CQI-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-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
      ID id-HARO-Preamble-Mode
                                                                                      HARO-Preamble-Mode
                                                                                                                            PRESENCE optional } |
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                                                            PRESENCE optional }
      ID id-MIMO-ActivationIndicator
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                      MIMO-ActivationIndicator
                                                                                                                            PRESENCE optional }
      ID id-HSDSCH-MACdPDUSizeFormat
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                      HSDSCH-MACdPDUSizeFormat
     ID id-SixtyfourOAM-UsageAllowedIndicator CRITICALITY ignore
                                                                         EXTENSION
                                                                                      SixtyfourOAM-UsageAllowedIndicator
                                                                                                                            PRESENCE optional },
HSDSCH-TDD-Information ::= SEQUENCE {
                                                 HSDSCH-MACdFlows-Information,
    hSDSCH-MACdFlows-Information
                                                 UE-Capability-Information,
    ueCapability-Info
    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
                                     CRITICALITY ignore
                                                                 EXTENSION
                                                                             UL-SIR
                                                                                                                      PRESENCE
                                                                                                                                  optional}
 -- Applicable to 1.28Mcps TDD only
    { ID id-HSSICH-TPC-StepSize
                                     CRITICALITY ignore
                                                                 EXTENSION
                                                                             TDD-TPC-UplinkStepSize-LCR
                                                                                                                      PRESENCE
                                                                                                                                  optional }
     -- Applicable to 1.28Mcps TDD only
     ID id-HSDSCH-MACdPDUSizeFormat
                                                                             HSDSCH-MACdPDUSizeFormat
                                                                                                                      PRESENCE optional } |
                                        CRITICALITY reject
                                                                 EXTENSION
    ID id-tSN-Length
                                     CRITICALITY reject
                                                                 EXTENSION
                                                                            TSN-Length
                                                                                                                      PRESENCE optional },
    -- Applicable for 1.28Mcps TDD when using multiple frequencies
HSDSCH-Information-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    priorityOueueInfotoModify
                                                     PriorityOueue-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                     MAChsReorderingBufferSize-for-RLC-UM
                                                                                                                      OPTIONAL,
    cqiFeedback-CycleK
                                                     CQI-Feedback-Cycle
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    cgiRepetitionFactor
                                                     CQI-RepetitionFactor
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    ackNackRepetitionFactor
                                                     AckNack-RepetitionFactor
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    caiPowerOffset
                                                     COI-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
                                                     Ack-Power-Offset
    ackPowerOffset
                                                                                                                      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,
```

```
HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-HARO-Preamble-Mode
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                      HARO-Preamble-Mode
                                                                                                                      PRESENCE optional }
     ID id-HSSICH-SIRTarget
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                      UL-SIR
                                                                                                                      PRESENCE optional }
     -- Applicable to 1.28Mcps TDD only
     ID id-ueCapability-Info
                                                                                      UE-Capability-Information
                                                                                                                      PRESENCE optional}
                                                 CRITICALITY ignore
                                                                         EXTENSION
     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
                                                                                      HS-PDSCH-Code-Change-Grant
                                                                                                                      PRESENCE optional } |
                                                 CRITICALITY ignore
                                                                         EXTENSION
     -- Applicable to FDD only
    { ID id-MIMO-Mode-Indicator
                                                                                                                      PRESENCE optional } |
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                      MIMO-Mode-Indicator
      ID id-HSDSCH-MACdPDUSizeFormat
                                                 CRITICALITY reject
                                                                         EXTENSION
                                                                                     HSDSCH-MACdPDUSizeFormat
                                                                                                                      PRESENCE optional } |
     ID id-SixtyfourOAM-UsageAllowedIndicator CRITICALITY ignore
                                                                         EXTENSION
                                                                                      SixtyfourOAM-UsageAllowedIndicator PRESENCE optional},
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,
    iE-Extensions
                                         ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs} }
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                            CRITICALITY ignore
                                                     EXTENSION TnlOos
                                                                         PRESENCE optional },
    . . .
HSDSCH-MACdPDUSizeFormat ::= ENUMERATED
    indexedMACdPDU-Size,
    flexibleMACdPDU-Size
HSDSCH-MACdPDU-SizeCapability ::= ENUMERATED
    indexedSizeCapable,
    flexibleSizeCapable
HSDSCH-Information-to-Modify-Unsynchronised ::= SEOUENCE
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    priorityQueueInfotoModifyUnsynchronised
                                                     PriorityQueue-InfoList-to-Modify-Unsynchronised
                                                                                                                      OPTIONAL,
    cgiPowerOffset
                                                     COI-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
                                                     Ack-Power-Offset
                                                                                                                                  -- For FDD only
    ackPowerOffset
                                                                                                                      OPTIONAL,
    nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    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
                                                CRITICALITY ignore
                                                                         EXTENSION
                                                                                     HARO-Preamble-Mode
                                                                                                                      PRESENCE optional }
     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-MIMO-Mode-Indicator
                                                CRITICALITY reject
                                                                         EXTENSION MIMO-Mode-Indicator
                                                                                                                     PRESENCE optional } |
    { ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore
                                                                         EXTENSION
                                                                                     SixtyfourQAM-UsageAllowedIndicator PRESENCE optional },
    . . .
HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp
                                                     HSDSCH-MACdFlow-Specific-InformationResp
                                                                                                                                    OPTIONAL,
    hsSCCH-Specific-Information-ResponseFDD
                                                     HSSCCH-Specific-InformationRespListFDD
                                                                                                                                    OPTIONAL,
    hARO-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                                                    OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
HSDSCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ID id-HARQ-Preamble-Mode-Activation-Indicator
                                                         CRITICALITY ignore EXTENSION
                                                                                         HARO-Preamble-Mode-Activation-Indicator
    PRESENCE
                optional}|
    { ID id-MIMO-N-M-Ratio
                                                                                                                                    PRESENCE
                                                         CRITICALITY ignore EXTENSION
                                                                                         MIMO-N-M-Ratio
optional}|
    { ID id-SixtyfourOAM-DL-UsageIndicator
                                                         CRITICALITY ignore EXTENSION SixtyfourOAM-DL-UsageIndicator
                                                                                                                           PRESENCE optional },
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 ::= SEQUENCE (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,
```

```
ProtocolExtensionContainer { { HSDSCH-Paging-System-Information-ResponseList-ExtIEs } }
    iE-Extensions
    OPTIONAL.
HSDSCH-Paging-System-Information-ResponseList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-TDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp
                                                    HSDSCH-MACdFlow-Specific-InformationResp
                                                                                                 OPTIONAL,
    hsSCCH-Specific-Information-ResponseTDD
                                                    HSSCCH-Specific-InformationRespListTDD
                                                                                                 OPTIONAL, -- Not Applicable to 1.28Mcps TDD or
7.68Mcps TDD
    hsSCCH-Specific-Information-ResponseTDDLCR
                                                    HSSCCH-Specific-InformationRespListTDDLCR 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 MultipleFreg-HSPDSCH-InformationList-ResponseTDDLCR
    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
MultipleFreg-HSPDSCH-InformationList-ResponseTDDLCR
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }
    . . .
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 MultipleFreg-HSPDSCH-InformationList-
ResponseTDDLCR PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD when using multiple frequencies , This MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR is the HS-SCCH and HARQ
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
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,
    transportLaverAddress
                                                    TransportLayerAddress
                                                                                OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                    HSDSCH-Initial-Capacity-Allocation OPTIONAL,
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
```

```
HSDSCH-MACdFlows-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info
                                                     HSDSCH-MACdFlow-Specific-InfoList,
    priorityOueue-Info
                                                    PriorityOueue-InfoList,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-MACdFlows-Information-ExtIEs } }
                                                                                                                                    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 ::= SEQUENCE {
    hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    bindingID
                                        BindingID
                                                                     OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                     OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs} }
                                                                                                                        OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                           CRITICALITY ignore
                                                    EXTENSION TnlOos
                                                                         PRESENCE optional },
    . . .
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 ::= {
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,
                                    MACdPDU-Size,
    maximum-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.
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,
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD-ExtIEs } }
    OPTIONAL,
HSSCCH-Specific-InformationRespItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
                                                ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs } }
    iE-Extensions
    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.
                                                     ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD768-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSSCCH-Specific-InformationRespItemTDD768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-Info ::= SEQUENCE {
    hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }
                                                                                                                   OPTIONAL,
    . . .
HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-InfoLCR ::= SEQUENCE
    hsSICH-ID
                                                     HS-SICH-ID,
    timeslotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                 TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                      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
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSICH-Info-768-ExtIEs } }
                                                                                                                      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
                                                                                                    PRESENCE
                                                                                                                optional }
                                                                    EXTENSION HS-SICH-failed
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 failed HS-SICH
    {ID id-Additional-missed-HS-SICH
                                           CRITICALITY reject
                                                                                                    PRESENCE optional } |
                                                                    EXTENSION HS-SICH-missed
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 missed HS-SICH
    {ID id-Additional-total-HS-SICH
                                           CRITICALITY reject
                                                                                                    PRESENCE optional },
                                                                    EXTENSION HS-SICH-total
    -- 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 [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 {
```

```
HS-SCCH-FDD-Code-List,
    replace
    remove
                            NULL,
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
                                    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 },
HS-DSCH-Serving-Cell-Change-Info-Response::= SEQUENCE
    hS-DSCH-serving-cell-choice
                                    HS-DSCH-serving-cell-choice,
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-DSCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
HS-DSCH-serving-cell-informationResponse-ExtIEs 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 ::= {
HSDSCH-FDD-Update-Information ::= SEQUENCE {
   hsSCCHCodeChangeIndicator
                                                  HSSCCH-CodeChangeIndicator
                                                                                             OPTIONAL,
    cgiFeedback-CycleK
                                                  CQI-Feedback-Cycle
                                                                                             OPTIONAL,
   cgiRepetitionFactor
                                                  CQI-RepetitionFactor
                                                                                             OPTIONAL,
    ackNackRepetitionFactor
                                                  AckNack-RepetitionFactor
                                                                                             OPTIONAL,
                                                  COI-Power-Offset
    cqiPowerOffset
                                                                                             OPTIONAL,
    ackPowerOffset
                                                  Ack-Power-Offset
                                                                                             OPTIONAL,
    nackPowerOffset
                                                  Nack-Power-Offset
                                                                                             OPTIONAL,
    iE-Extensions
                                                  ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
HSDSCH-FDD-Update-Information-ExtlEs 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-ExtlEs 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
-- -----
-- -----
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.[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
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
    periodic
                            InformationReportCharacteristicsType-ReportPeriodicity,
    onModification
                            InformationReportCharacteristicsType-OnModification,
InformationReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    min
                        ReportPeriodicity-Scaledmin,
                        ReportPeriodicity-Scaledhour,
    hours
InformationReportCharacteristicsType-OnModification ::= SEQUENCE
    information-thresholds
                                  InformationThresholds
                                                             OPTIONAL,
    ie-Extensions
                                  ProtocolExtensionContainer { { InformationReportCharacteristicsType-OnModification-ExtIEs} } OPTIONAL,
InformationReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
InformationThresholds ::= CHOICE {
    dabs
                        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"
                                                        EXTENSION GANSS-Information
    { ID id-GANSS-Information
                                  CRITICALITY ignore
                                                                                         PRESENCE conditional },
Information-Type-Item ::= ENUMERATED
    gpsinformation,
    dgpscorrections,
    gpsrxpos,
    qANSSInformation,
    dGANSSCorrections.
    qANSS-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 {
                                    ENUMERATED{sp5,sp7,sp10,sp15,sp20,sp30,sp40,sp50,...},
    iP-SpacingFDD
    iP-Length
                                    ENUMERATED{len5, len10},
```

```
seed
                                     INTEGER (0..63),
    burstModeParams
                                     BurstModeParams
                                                          OPTIONAL.
    iP-Offset
                                     INTEGER (0..9).
    iE-Extensions
                                     ProtocolExtensionContainer { { IPDLFDDParameter-ExtIEs} } 
                                                                                                    OPTIONAL,
IPDLFDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDL-TDD-Parameters ::= SEQUENCE {
    iP-SpacingTDD
                                      ENUMERATED { sp30, sp40, sp50, sp70, sp100, ... },
    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 {
    iP-SpacingTDD
                                      ENUMERATED { sp30, sp40, sp50, sp70, sp100, ... },
    iP-Start
                                     INTEGER (0..4095),
    iP-Sub
                                     ENUMERATED{first, second, both},
    burstModeParams
                                     BurstModeParams
                                                          OPTIONAL.
                             ProtocolExtensionContainer { { IPDLTDDParameterLCR-ExtIEs} }
    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 ::= SEQUENCE {
    burstStart
                                         INTEGER (0..15),
    burstLength
                                         INTEGER (10..25),
    burstFreq
                                         INTEGER (1..16),
    . . .
IPDLTDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
IPDLTDDParameterLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ _______
-- -----
-- -----
-- -----
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),
   maxPhysChPerTimeslot
                              ENUMERATED {one, two, ..., three, four},
   iE-Extensions
                              ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs} } OPTIONAL,
   . . .
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,...)
```

```
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
                                        ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-ExtIEs} }
                                                                                                                       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)
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,...}
MAC-hsWindowSize
-- For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,...)
MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(1..maxNrOfBits-MACe-PDU-non-scheduled)
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 [23]
MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 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 [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.
MidambleConfigurationLCR ::=
                              ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}
MidambleConfigurationBurstType1And3 ::=
                                         ENUMERATED {v4, v8, v16}
MidambleConfigurationBurstType2 ::=
                                      ENUMERATED {v3, v6}
MidambleShiftAndBurstType ::=
                                  CHOICE {
                                      SEQUENCE {
   type1
       midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
       midambleAllocationMode
                                         CHOICE {
           defaultMidamble
                                             NULL,
           commonMidamble
                                             NULL,
           ueSpecificMidamble
                                             MidambleShiftLong,
                                      SEQUENCE {
    type2
       midambleConfigurationBurstType2
                                         MidambleConfigurationBurstType2,
       midambleAllocationMode
                                         CHOICE {
           defaultMidamble
                                             NULL,
           commonMidamble
                                             NULL,
           ueSpecificMidamble
                                             MidambleShiftShort,
       . . .
                                     SEQUENCE
   type3
       midambleAllocationMode
                                         CHOICE {
           defaultMidamble
                                             NULL,
           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 {
                                        SEQUENCE
        midambleConfigurationBurstType1And3
                                                MidambleConfigurationBurstType1And3,
       midambleAllocationMode
                                            CHOICE {
            defaultMidamble
                                                NULL,
            commonMidamble
                                                NULL,
           ueSpecificMidamble
                                                MidambleShiftLong,
                                        SEQUENCE
   type2
        midambleConfigurationBurstType2-768
                                                MidambleConfigurationBurstType2-768,
        midambleAllocationMode
                                            CHOICE {
            defaultMidamble
                                                NULL,
            commonMidamble
                                                NULL,
           ueSpecificMidamble
                                                MidambleShiftShort768,
        },
        . . .
    type3
                                        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,
MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB
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 {
    addPriorityQueue
                                PriorityQueue-InfoItem-to-Add,
    modifyPriorityQueue
                                PriorityQueue-InfoItem-to-Modify,
    deletePriorityQueue
                                PriorityQueue-Id,
Modulation ::= ENUMERATED {
    aPSK,
    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 {
    qPSK
    sixteenQAM
                        MBSFN-CPICH-secondary-CCPCH-power-offset,
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-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,
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                  OPTIONAL,
    uARFCN
                                                     UARFCN, -- This is the UARFCN for the second and beyond Frequency repetition.
```

```
ProtocolExtensionContainer { { MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs } }
   iE-Extensions
       OPTIONAL.
    . . .
MultipleFreg-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- -----
-- ------
Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
NCyclesPerSFNperiod ::= ENUMERATED {
   v2,
   v4,
    v8,
    . . . ,
   v16,
   v32,
    v64
NRepetitionsPerCyclePeriod ::= INTEGER (2..10)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
       CHOICE {
               neighbouringFDDCellMeasurementInformation
                                                             NeighbouringFDDCellMeasurementInformation, -- FDD only
                                                             NeighbouringTDDCellMeasurementInformation,
               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
              -- Applicable to 1.28Mcps TDD only
mandatory } |
   { 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,
    iE-Extensions
                                        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
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,
    11ARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlot
                                        TimeSlot
                                                                         OPTIONAL,
    midambleShiftAndBurstType768
                                        MidambleShiftAndBurstType768
                                                                             OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformation768Item-ExtIEs} } OPTIONAL,
    iE-Extensions
NeighbouringTDDCellMeasurementInformation768Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
NI-Information ::= SEQUENCE (SIZE (1..maxNrOfNIs)) OF Notification-Indicator
Notification-Indicator ::= INTEGER (0..65535)
NodeB-CommunicationContextID ::= INTEGER (0..1048575)
NotificationIndicatorLength ::= ENUMERATED {
   v4,
   v8,
   . . .
{\tt NumberOfReportedCellPortions} \ ::= \ {\tt INTEGER} \ ({\tt 1...maxNrOfCellPortionsPerCell}, \ldots)
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,
-- ------
  _____
  _____
-- -----
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,
    iE-Extensions
                                                     ProtocolExtensionContainer { { Paging-MACFlows-to-DeleteFDD-Item-ExtIEs} }
    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-gos
                                                     TnlOos
                                                                                                 OPTIONAL,
    toAWS
                                                     ToAWS,
                                                     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 ::= {
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
                                                     OPTIONAL,
Paging-MACFlow-PriorityOueue-Item-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
PLCCHsequenceNumber ::= INTEGER (0..14)
PLCCHinformation ::= SEQUENCE {
   commonPhysicalChannelID
                                         CommonPhysicalChannelID,
   sequenceNumber
                                         PLCCHsequenceNumber,
   iE-Extensions
                                         ProtocolExtensionContainer { { PLCCHinformation-ExtIEs} }
                                                                                                                OPTIONAL,
PLCCHinformation-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
PowerRaiseLimit ::= INTEGER (0..10)
PRACH-Midamble ::= ENUMERATED {
   inverted,
   direct,
PRC ::= INTEGER (-2047..2047)
```

```
--pseudo range correction; scaling factor 0.32 meters
PRCDeviation ::= ENUMERATED {
   one,
   t.wo.
   five,
   ten,
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
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,
                                        ProtocolExtensionContainer { { Priority-Oueue-Information-for-Enhanced-FACH-PCH-ExtIEs } }
    iE-Extensions
                                                                                                                                          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
                                        PriorityQueue-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 { { PriorityQueue-InfoItem-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
PriorityQueue-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                     EXTENSION MAC-PDU-SizeExtended
                                                                                                                     PRESENCE optional },
    . . .
PriorityQueue-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF ModifyPriorityQueue
PriorityQueue-InfoItem-to-Add ::= SEQUENCE {
    priorityQueueId
                                        PriorityQueue-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.
                                         ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Add-ExtIEs} } }
    iE-Extensions
                                                                                                                      OPTIONAL,
PriorityQueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-MaximumMACdPDU-SizeExtended
                                             CRITICALITY reject
                                                                     EXTENSION
                                                                                 MAC-PDU-SizeExtended
                                                                                                                      PRESENCE optional },
    . . .
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,
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-ExtIEs} } 
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
PriorityOueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MaximumMACdPDU-SizeExtended
                                             CRITICALITY reject
                                                                     EXTENSION MAC-PDU-SizeExtended
                                                                                                                      PRESENCE optional },
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityQueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
    prioritvOueueId
                                         PriorityOueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                                                                        OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                                        OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                                        OPTIONAL,
                                         ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Modify-Unsynchronised-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-RSCP ::= INTEGER (0..91)
-- Mapping of non-negative values according to [23]
PrimaryCCPCH-RSCP-Delta ::= INTEGER (-5..-1,...)
-- Mapping of negative values according to [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)
PUSCHSet-ID ::= INTEGER (0..255)
-- ------
QE-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 ::= SEOUENCE (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,
                         ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Specific-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    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,
                         ProtocolExtensionContainer { { RL-Specific-E-DCH-Information-Item-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Specific-E-DCH-Information-Item-ExtlEs 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 [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 ::= SEOUENCE (SIZE (1..maxNrOfRefETFCIs)) OF Reference-E-TFCI-Information-Item
Reference-E-TFCI-Information-Item ::= SEQUENCE {
    reference-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,
                      ReportCharacteristicsType-EventB,
    event.-b
    event-c
                      ReportCharacteristicsType-EventC,
                      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 ::= {
    ReportCharacteristicsType-EventA ::= SEQUENCE {
   measurementThreshold
                                  ReportCharacteristicsType-MeasurementThreshold,
                                  ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                                OPTIONAL,
   measurementHysteresisTime
                                  ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-ExtIEs} }
   iE-Extensions
                                                                                                                OPTIONAL,
    . . .
ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventB ::= SEQUENCE {
   measurementThreshold
                                  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,
                                  ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-ExtIEs} } 
   iE-Extensions
                                                                                                                OPTIONAL,
ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventD ::= SEQUENCE {
   measurementDecreaseThreshold
                                 ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
```

```
ReportCharacteristicsType-ScaledMeasurementChangeTime,
    measurementChangeTime
    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
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs} }
                                                                                                                        OPTIONAL,
ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventF ::= SEQUENCE {
    measurementThreshold1
                                    ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2
                                    ReportCharacteristicsType-MeasurementThreshold
                                                                                                 OPTIONAL,
    measurementHysteresisTime
                                    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                 OPTIONAL,
                                    ReportCharacteristicsType-ReportPeriodicity
    reportPeriodicity
                                                                                                 OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs}
                                                                                                                        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
                                SIR-Error-Value-IncrDecrThres,
                                    Transmitted-Code-Power-Value-IncrDecrThres,
    transmitted-code-power
    rscp
                                    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-
Measurement IncreaseDecreaseThreshold
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold
                                                                           ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= {
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission
                                                                            CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory}
 ID id-Transmitted-Carrier-Power-For-CellPortion
                                                        CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
                                                                                                                    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 }
                                    CRITICALITY reject TYPE
 ID id-UpPTSInterferenceValue
                                                                UpPTSInterferenceValue
                                                                                            PRESENCE mandatory } |
 ID id-Received-Scheduled-EDCH-Power-Share
                                                CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                                       PRESENCE mandatory } |
                                                                                                                       PRESENCE mandatory }
 ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
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-Value.
    sir
    sir-error
                                SIR-Error-Value,
                                    Transmitted-Code-Power-Value,
    transmitted-code-power
                                    RSCP-Value,
    rx-timing-deviation
                                    Rx-Timing-Deviation-Value,
    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
                                                            ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
Extension-ReportCharacteristicsType-MeasurementThreshold
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-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-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 } |
     ID id-Transmitted-Carrier-Power-For-CellPortion CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
                                                                                                                             PRESENCE mandatory } |
```

```
ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value
                                                                                                                                                                                                                            PRESENCE mandatory } |
          {\tt ID} \verb| id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOTE-HICHTransmissionCellPortion | {\tt ID} 
                                                                                                                                                                                                                   CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                                                                        PRESENCE mandatory } |
          ID id-UpPTSInterferenceValue
                                                                                                   CRITICALITY reject TYPE UppTSInterferenceValue
                                                                                                                                                                                                                            PRESENCE mandatory }
          ID id-DLTransmissionBranchLoadValue
                                                                                                   CRITICALITY reject TYPE DLTransmissionBranchLoadValue
                                                                                                                                                                                                                            PRESENCE mandatory }
          ID id-HS-DSCHRequiredPowerValue-For-Cell-Portion CRITICALITY reject TYPE HS-DSCHRequiredPowerValue
                                                                                                                                                                                                                            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
          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-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-Ouality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Ouality-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
       ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE
                                          MeasurementChangeTime-Scaledmsec,
       . . .
MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
       msec
                                          MeasurementHysteresisTime-Scaledmsec,
       . . .
MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
       msec
                                          ReportPeriodicity-Scaledmsec,
                                          ReportPeriodicity-Scaledmin,
       min
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,
    . . .
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)
RNC-ID
                       ::= INTEGER (0..4095)
Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [22]
RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [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-Value ::= INTEGER(0..621)
-- According to mapping in [22]/[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 [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,
```

PRESENCE optional } |

PRESENCE 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
   . . .
Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
-- According to mapping in [23]
Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
-- According to mapping in [23]
Rx-Timing-Deviation-Value-768 ::= INTEGER (0..65535)
-- According to mapping in [23]
Rx-Timing-Deviation-Value-384-ext ::= INTEGER (0..32767)
-- According to mapping in [23]
RefBeta ::= INTEGER (-15..16)
RTWP-ReportingIndicator ::= ENUMERATED {
   rTWP-reporting-required}
RTWP-CellPortion-ReportingIndicator ::= ENUMERATED {
   rTWP-CellPortion-reporting-required}
-- ------
-- -----
AdjustmentPeriod
                       ::= INTEGER(1..256)
-- Unit Frame
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
   gps-e-alm BIT STRING (SIZE (16)),
gps-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)),
   omegazero-alm
                    BIT STRING (SIZE (24)),
   m-zero-alm
                    BIT STRING (SIZE (24)),
   gps-omega-alm
                    BIT STRING (SIZE (24)),
   gps-af-zero-alm BIT STRING (SIZE (11)),
   gps-af-one-alm
                    BIT STRING (SIZE (11)),
   ie-Extensions
                    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,
                 BIT STRING (SIZE (16)),
   aps-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-sgrt-alm BIT STRING (SIZE (24)),
   omegazero-alm
                    BIT STRING (SIZE (24)),
   m-zero-alm
                    BIT STRING (SIZE (24)),
   gps-omega-alm
                    BIT STRING (SIZE (24)),
   qps-af-zero-alm BIT STRING (SIZE (11)),
                    BIT STRING (SIZE (11)),
   gps-af-one-alm
                    ie-Extensions
                                                                                   OPTIONAL,
} -- Includes the GPS-Almanac-Information for 17<sup>th</sup> through 32<sup>nd</sup> 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-dqps
                                       BIT STRING (SIZE (8)),
   udre
                                       UDRE,
                                       PRC,
                                       Range-Correction-Rate,
   range-correction-rate
   ie-Extensions
                                       ProtocolExtensionContainer { { SAT-Info-DGPSCorrections-Item-ExtIEs} } OPTIONAL,
SAT-Info-DGPSCorrections-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
   . . .
SATInfo-RealTime-Integrity ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-RealTime-Integrity-Item
SAT-Info-RealTime-Integrity-Item ::= SEQUENCE {
 bad-sat-id
                SAT-ID,
 OPTIONAL,
```

```
SAT-Info-RealTime-Integrity-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ScaledAdjustmentRatio
                                ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
MaxAdjustmentStep
                          ::= INTEGER(1..10)
-- Unit Slot
SchedulingInformation
                                ::= ENUMERATED {
    included,
    not-included
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 ::= {
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::= SEQUENCE {
    sFNSFNChangeLimit
                                        SFNSFNChangeLimit
                                                                             OPTIONAL,
    predictedSFNSFNDeviationLimit
                                        PredictedSFNSFNDeviationLimit
                                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
SFNSFNMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFNSFNMeasurementValueInformation ::= SEQUENCE {
    \verb|successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation| \\
                                                                                          SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF
        SEQUENCE {
            uC-Id
                                        UC-Id,
            sFNSFNValue
                                        SFNSFNValue,
            sFNSFNQuality
                                        SFNSFNOuality
                                                                     OPTIONAL,
                                        SFNSFNDriftRate,
            sFNSFNDriftRate
            sFNSFNDriftRateQuality
                                        SFNSFNDriftRateQuality
                                                                     OPTIONAL,
            sFNSFNTimeStampInformation SFNSFNTimeStampInformation,
                                ProtocolExtensionContainer { { SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
            iE-Extensions
ExtIEs } }
                OPTIONAL,
    unsuccessfull Neighbouring {\tt CellSFNSFNObservedTimeDifferenceMeasurementInformation}
                                                                                          SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEOUENCE {
            uC-Id
                                        UC-Id,
```

```
ProtocolExtensionContainer { { UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
           iE-Extensions
ExtIEs } }
               OPTIONAL.
   iE-Extensions
                      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 [22]
SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD
                          SFN,
   sFNSFNTimeStamp-TDD
                          SFNSFNTimeStamp-TDD,
    . . . }
SFNSFNTimeStamp-TDD::= SEQUENCE {
   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
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
SIR-Value ::= INTEGER (0..63)
-- According to mapping in [22]/[23]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SignallingBearerRequestIndicator::= ENUMERATED {bearerRequested}
SixtyfourQAM-UsageAllowedIndicator ::= ENUMERATED {
    allowed,
    not-allowed
SixtyfourQAM-DL-UsageIndicator ::= ENUMERATED {
    sixteenQAM-DL-used,
    sixteenQAM-DL-not-used
SixtyfourQAM-DL-Capability ::= ENUMERATED {
    sixtyfourQAM-DL-supported,
    sixtyfourQAM-DL-not-supported
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
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
STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    . . .
SSDT-SupportIndicator ::= ENUMERATED {
    not-Used-sSDT-Supported,
    sSDT-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,
    cellSyncBurstInformation
                                SEQUENCE (SIZE (1.. maxNrOfReceptsPerSyncFrame)) OF SynchronisationReportCharactCellSyncBurstInfoItem,
    iE-Extensions
                                ProtocolExtensionContainer { { SynchronisationReportCharactThreInfoItem-ExtIEs } }
SynchronisationReportCharactThreInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
SynchronisationReportCharactCellSyncBurstInfoItem ::= SEQUENCE {
    cellSyncBurstCode
                                    CellSyncBurstCode,
                                    CellSyncBurstCodeShift,
    cellSyncBurstCodeShift
    cellSyncBurstTiming
                                    CellSyncBurstTiming
                                                                     OPTIONAL,
    cellSyncBurstTimingThreshold
                                    CellSyncBurstTimingThreshold
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs } }
    iE-Extensions
                                                                                                                                    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,
                                    SyncDLCodeInfoListLCR,
    syncDLCodeIdInfoLCR
    iE-Extensions
                                    ProtocolExtensionContainer { { SyncDLCodeIdThreInfoList-ExtIEs } }
                                                                                                            OPTIONAL,
SyncDLCodeIdThreInfoList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeInfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfSyncDLCodesLCR)) OF SyncDLCodeInfoItemLCR
SyncDLCodeInfoItemLCR ::= SEQUENCE {
    syncDLCodeId
                                    SYNCDlCodeId,
    syncDLCodeIdArrivTime
                                    CellSyncBurstTimingLCR
                                                                         OPTIONAL,
    syncDLCodeIdTimingThre
                                    CellSyncBurstTimingThreshold
                                                                         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,
-- -----
-- ------
T1 ::= ENUMERATED \{v10, v20, v30, v40, v50, v60, v70, v80, v90, v100, v120, v140, v160, v200, v300, v400, \ldots\}
T-Cell ::= ENUMERATED {
    νO,
   v1,
    v2,
    v3,
    v4,
    ν5,
    v6,
   v7,
   v8,
    v9
T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range Os .. 25.5s, Step 0.1s
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
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-ChannelisationCodeLCR-ExtIEs} }
                                                                                                                           OPTIONAL,
TDD-ChannelisationCodeLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-ChannelisationCode768
                                     ::= ENUMERATED {
    chCodeldiv1.
    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
                                                                                                                  OPTIONAL,
TDD-DL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-Code-LCR-Information ::= SEOUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-DL-Code-LCR-InformationItem
TDD-DL-Code-LCR-InformationItem ::= SEQUENCE
    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 {
    aPSK
                                OPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
                                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
QPSK-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 {
                                SEQUENCE {
    signalledGainFactors
       gainFactor
                                    CHOICE {
           fdd
                                        SEOUENCE
                                            BetaCD,
                betaC
                betaD
                                            BetaCD.
                iE-Extensions
                                    ProtocolExtensionContainer { { GainFactorFDD-ExtIEs } }
           tdd
                                        BetaCD,
            . . .
        refTFCNumber
                                    RefTFCNumber
                                                    OPTIONAL,
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } }
        iE-Extensions
                                                                                                                     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,
                                            ProtocolExtensionContainer { { TDD-UL-Code-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                                        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 ::= SEOUENCE
    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,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    iE-Extensions
                                            ProtocolExtensionContainer { { TDD-UL-Code-768-InformationItem-ExtIEs} }
                                                                                                                           OPTIONAL,
TDD-UL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
                                OPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
                                EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
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
                                                                                                                      OPTIONAL,
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
TGPSID
                    ::= INTEGER (1.. maxTGPS)
TGSN
                    ::= INTEGER (0..14)
TimeSlot ::= INTEGER (0..14)
TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
TimeSlotLCR ::= INTEGER (0..6)
TimeslotLCR-Extension ::= ENUMERATED {
    ts7,
    . . .
-- ts7 indicates the MBSFN Special Timeslot for 1.28Mcps TDD MBSFN Dedicated Carrier.
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
            -- 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 ::= SEOUENCE (SIZE
(1..maxNrOfCellPortionsPerCell)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-
Item
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOTE-HICHTransmissionCellPortionValue-Item ::= SEOUENCE{
    cellPortionID
                                            CellPortionID,
    transmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue.
    iE-Extensions
                                            ProtocolExtensionContainer { TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-
RGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs} }
                                                            OPTIONAL,
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOFE-HICHTransmissionCellPortionValue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue ::= INTEGER(0..100)
-- According to mapping in [22] and [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,
    iE-Extensions
                                            ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs} }
    OPTIONAL,
Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [22]/[23]
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [22]/[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,
                       TransportFormatCombination-Beta
       tFC-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 {
   ctfc2bit
                                        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 [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} }
                                                                                                                       OPTIONAL,
       iE-Extensions
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
                                                                                 OPTIONAL,
    -- 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,
                                      ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs} }
    iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
```

```
TransmissionTimeIntervalInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTimeInterval
                                        TransportFormatSet-TransmissionTimeIntervalSemiStatic,
    channelCoding
                                    TransportFormatSet-ChannelCodingType,
    codingRate
                                    TransportFormatSet-CodingRate
                                                                                 OPTIONAL,
    -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or 'turbo'
    rateMatchingAttribute
                                    TransportFormatSet-RateMatchingAttribute,
    cRC-Size
                                    TransportFormatSet-CRC-Size,
    mode
                                    TransportFormatSet-ModeSSP
                                    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-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, ...))
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
TSN-Length ::= ENUMERATED {
    tsn-6bits,
    tsn-9bits
TUTRANGANSS ::= SEQUENCE {
                    INTEGER (0..16383),
    1s
                    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-ExtIEs } }
                                                                                                              OPTIONAL,
TUTRANGANSSMeasurementThresholdInformation-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
TUTRANGANSSMeasurementValueInformation ::= SEQUENCE {
   tUTRANGANSS
                                 TUTRANGANSS.
                                  INTEGER (0..255)
   tUTRANGANSSQuality
                                                                                                              OPTIONAL,
    tUTRANGANSSDriftRate
                                  INTEGER (-50..50),
   tUTRANGANSSDriftRateQuality
                                  INTEGER (0..50)
                                                                                                              OPTIONAL,
                          OPTIONAL,
   ie-Extensions
TUTRANGANSSMeasurementValueInformation-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
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
TUTRANGPSDriftRateOuality ::= 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} }
                                                                                                                       OPTIONAL,
    iE-Extensions
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
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.
   iE-Extensions
                           ProtocolExtensionContainer { {UC-Id-ExtIEs} } OPTIONAL,
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
UE-Capability-Information ::= SEQUENCE {
    hSDSCH-Physical-Layer-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 },
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,
                                          ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs} }
    iE-Extensions
UL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRESENCE optional },
                                                                     EXTENSION PLCCHinformation
UL-Timeslot768-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot768-InformationItem
UL-Timeslot768-InformationItem ::= SEQUENCE
    timeSlot
                                          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 [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
                                      . . .
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,
                                    UL-TimeslotISCP-Value,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs} }
                                                                                                                       OPTIONAL,
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UpPTSInterferenceValue ::= INTEGER (0..127,...)
Unidirectional-DCH-Indicator ::= ENUMERATED {
    downlink-DCH-only,
    uplink-DCH-only
USCH-Information ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
    uSCH-ID
                                            USCH-ID.
    cCTrCH-ID
                                                               -- UL CCTrCH in which the USCH is mapped
                                            CCTrCH-ID,
    transportFormatSet
                                            TransportFormatSet, -- For USCH
                                            AllocationRetentionPriority,
    allocationRetentionPriority
                                            ProtocolExtensionContainer { { USCH-InformationItem-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                            CRITICALITY ignore
                                                                    EXTENSION BindingID
                                                                                                                    PRESENCE
                                                                                                                               optional }
```

optional }

OPTIONAL.

```
-- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                 CRITICALITY ignore
                                                    EXTENSION
                                                             TransportLayerAddress
                                                                                        PRESENCE
   -- Shall be ignored if bearer establishment with ALCAP.
                                 CRITICALITY ignore
   { ID id-TnlOos
                                                    EXTENSION
                                                             TnlOos PRESENCE optional
   . . .
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} }
USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-TimeslotISCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]
UL-TimeslotISCP-Value-IncrDecrThres ::= INTEGER (0..126)
USCH-ID ::= INTEGER (0..255)
-- -----
-- -----
-- -----
-- ------
-- ------
-- ------
  _____
-- -----
END
```

## 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
__ ********************
Criticality
            ::= ENUMERATED { reject, ignore, notify }
MessageDiscriminator
                  ::= ENUMERATED { common, dedicated }
             ::= ENUMERATED { optional, conditional, mandatory }
Presence
PrivateIE-ID ::= CHOICE {
   local
                  INTEGER (0..maxPrivateIEs),
   qlobal
                   OBJECT IDENTIFIER
ProcedureCode ::= INTEGER (0..255)
ProcedureID
             ::= SEQUENCE {
   procedureCode
                      ProcedureCode,
   ddMode
                       ENUMERATED { tdd, fdd, common, ... }
ProtocolIE-ID
            ::= INTEGER (0..maxProtocolIEs)
TransactionID
              ::= CHOICE {
   shortTransActionId
                      INTEGER (0..127),
   longTransActionId
                      INTEGER (0..32767)
```

```
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
                                                     ProcedureCode ::= 2
id-blockResource
                                                     ProcedureCode ::= 3
id-cellDeletion
id-cellReconfiguration
                                                     ProcedureCode ::= 4
id-cellSetup
                                                     ProcedureCode ::= 5
id-cellSynchronisationInitiation
                                                     ProcedureCode ::= 45
id-cellSynchronisationReconfiguration
                                                     ProcedureCode ::= 46
id-cellSynchronisationReporting
                                                     ProcedureCode ::= 47
id-cellSynchronisationTermination
                                                     ProcedureCode ::= 48
id-cellSynchronisationFailure
                                                     ProcedureCode ::= 49
id-commonMeasurementFailure
                                                     ProcedureCode ::= 6
id-commonMeasurementInitiation
                                                     ProcedureCode ::= 7
id-commonMeasurementReport
                                                     ProcedureCode ::= 8
\verb"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
id-informationExchangeFailure
                                                        ProcedureCode ::= 40
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
                                                        ProcedureCode ::= 39
id-radioLinkPreemption
id-radioLinkRestoration
                                                        ProcedureCode ::= 26
id-radioLinkSetup
                                                        ProcedureCode ::= 27
id-reset
                                                        ProcedureCode ::= 13
id-resourceStatusIndication
                                                        ProcedureCode ::= 28
id-cellSynchronisationAdjustment
                                                        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
id-radioLinkActivation
                                                        ProcedureCode ::= 51
id-radioLinkParameterUpdate
                                                        ProcedureCode ::= 52
  **********************
-- Lists
maxNrOfCodes
                            INTEGER ::= 10
maxNrOfDLTSs
                            INTEGER ::= 15
maxNrOfDLTSLCRs
                           INTEGER ::= 6
maxNrOfErrors
                            INTEGER ::= 256
maxNrOfTFs
                            INTEGER ::= 32
maxNrOfTFCs
                            INTEGER ::= 1024
maxNrOfRLs
                            INTEGER ::= 16
                            INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-1
                           INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfRLs-2
maxNrOfRLSets
                            INTEGER ::= maxNrOfRLs
                            INTEGER ::= 240
maxNrOfDPCHs
                            INTEGER ::= 239 -- maxNrofCCTrCH*maxNrOfULTSs-1
maxNrOfDPCHsPerRL-1
                            INTEGER ::= 240
maxNrOfDPCHLCRs
                            INTEGER ::= 95 -- maxNrofCCTrCH*maxNrOfULTSLCRs-1
maxNrOfDPCHsLCRPerRL-1
maxNrOfDPCHs768
                            INTEGER ::= 480
                           INTEGER ::= 479
maxNrOfDPCHs768PerRL-1
```

```
maxNrOfSCCPCHs
                            INTEGER ::= 8
maxNrOfSCCPCHsinExt
                            INTEGER ::= 232
maxNrOfSCCPCHs768
                            INTEGER ::= 480
maxNrOfDCHs
                            INTEGER ::= 128
maxNrOfDSCHs
                            INTEGER ::= 32
                            INTEGER ::= 8
maxNrOfFACHs
                            INTEGER ::= 16
maxNrOfCCTrCHs
                            INTEGER ::= 256
maxNrOfPDSCHs
maxNrOfHSPDSCHs
                            INTEGER · · = 16
                            INTEGER ::= 32
maxNrOfHSPDSCHs768
maxNrOfPUSCHs
                            INTEGER ::= 256
                            INTEGER ::= 255
maxNrOfPUSCHs-1
                            INTEGER ::= 256
maxNrOfPDSCHSets
maxNrOfPRACHLCRs
                            INTEGER ::= 8
maxNrOfPUSCHSets
                            INTEGER ::= 256
maxNrOfSCCPCHLCRs
                            INTEGER ::= 8
maxNrOfSCCPCHsLCRinExt
                            INTEGER ::= 88
maxNrOfULTSs
                            INTEGER ::= 15
maxNrOfULTSLCRs
                            INTEGER ::= 6
maxNrOfUSCHs
                            INTEGER ::= 32
maxNrOfSlotFormatsPRACH
                            INTEGER ::= 8
maxCellinNodeB
                            INTEGER ::= 256
maxCCPinNodeB
                            INTEGER ::= 256
maxCTFC
                            INTEGER ::= 16777215
                            INTEGER ::= maxCellinNodeB
maxLocalCellinNodeB
maxFPACHCell
                            INTEGER ::= 8
maxRACHCell
                            INTEGER ::= maxPRACHCell
maxPLCCHCell
                            INTEGER ::= 16
                            INTEGER ::= 16
maxPRACHCell
maxSCCPCHCell
                            INTEGER ::= 32
                            INTEGER ::= 208 -- maxNrOfSCCPCHs + maxNrOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExt
maxSCCPCHCellinExtLCR
                            INTEGER ::= 64 -- maxNrOfSCCPCHLCRs + maxNrOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCCPCHCell768
                            INTEGER ::= 480
maxSCPICHCell
                            INTEGER ::= 32
maxTTI-count
                            INTEGER ::= 4
maxIBSEG
                            INTEGER ::= 16
maxIB
                            INTEGER ::= 64
maxFACHCell
                            INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching
                            INTEGER ::= 256
maxHS-PDSCHCodeNrComp-1
                            INTEGER ::= 15
                            INTEGER ::= 127
maxHS-SCCHCodeNrComp-1
maxNrOfCellSyncBursts
                            INTEGER ::= 10
maxNrOfReceptsPerSyncFrame
                            INTEGER ::= 16
maxNrOfMeasNCell
                            INTEGER ::= 96
maxNrOfMeasNCell-1
                            INTEGER ::= 95
                                            -- maxNrOfMeasNCell - 1
maxNrOfSF
                            INTEGER ::= 8
maxTGPS
                            INTEGER ::= 6
maxCommunicationContext
                            INTEGER ::= 1048575
maxNrOfLevels
                            INTEGER ::= 256
maxNoSat
                            INTEGER ::= 16
                            INTEGER ::= 8
maxNoGPSItems
maxNrOfHSSCCHs
                            INTEGER ::= 32
maxNrOfHSSICHs
                            INTEGER ::= 4
maxNrOfHSSICHs-1
                            INTEGER ::= 3
```

```
maxNrOfSyncFramesLCR
                            INTEGER ::= 512
maxNrOfReceptionsperSyncFrameLCR
                                    INTEGER ::= 8
maxNrOfSvncDLCodesLCR
                            INTEGER ::= 32
maxNrOfHSSCCHCodes
                                INTEGER ::= 4
maxNrOfMACdFlows
                                INTEGER ::= 8
maxNrOfMACdFlows-1
                                INTEGER ::= 7
                                                 -- maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes
                                INTEGER ::= 8
maxNrOfMACdPDUIndexes-1
                                INTEGER ::= 7
                                                -- maxNoOfMACdPDUIndexes - 1
maxNrOfMACdPDUSize
                                INTEGER ::= 32
maxNrOfNIs
                                INTEGER ::= 256
maxNrOfPriorityQueues
                                INTEGER ::= 8
maxNrOfPriorityOueues-1
                                INTEGER ::= 7
                                                 -- maxNoOfPriorityOueues - 1
maxNrOfHAROProcesses
                                INTEGER ::= 8
maxNrOfContextsOnUeList
                                INTEGER ::= 16
maxNrOfCellPortionsPerCell
                                INTEGER ::= 64
                                INTEGER ::= 63
maxNrOfCellPortionsPerCell-1
maxNrOfPriorityClasses
                                INTEGER ::= 16
                                INTEGER ::= 16
maxNrOfSatAlmanac-maxNoSat
                                                 -- maxNrofSatAlmanac - maxNoSat
maxNrOfE-AGCHs
                                INTEGER ::= 32
maxNrOfEDCHMACdFlows
                                INTEGER ::= 8
                                INTEGER ::= 7
maxNrOfEDCHMACdFlows-1
                                INTEGER ::= 32
maxNrOfE-RGCHs-E-HICHs
maxNrOfEDCH-HARO-PO-OUANTSTEPs INTEGER ::= 6
maxNrOfEDCHHARQProcesses2msEDCH INTEGER ::= 8
maxNrOfEDPCCH-PO-OUANTSTEPs
                                INTEGER ::= 8
maxNrOfBits-MACe-PDU-non-scheduled INTEGER ::= 19982
maxNrOfRefETFCIs
                                INTEGER ::= 8
                                INTEGER ::= 29
maxNrOfRefETFCI-PO-QUANTSTEPs
maxNrofSiqSeqRGHI-1
                                INTEGER ::= 39
maxNoOfLogicalChannels
                                INTEGER ::= 16 -- only maximum 15 can be used
maxNrOfCombEDPDCH
                                INTEGER ::= 12
maxE-RUCCHCell
                                INTEGER ::= 16
maxNrOfEAGCHCodes
                                INTEGER ::= 4
maxNrOfRefBetas
                                INTEGER ::= 8
maxNrOfE-PUCHSlots
                                INTEGER ::= 13
maxNrOfEAGCHs
                                INTEGER · · = 32
maxNrOfHS-DSCH-TBSs-HS-SCCHless INTEGER ::= 4
                                INTEGER ::= 90
maxNrOfHS-DSCH-TBSs
                                INTEGER ::= 4
maxNrOfEHICHCodes
                                INTEGER ::= 5
maxNrOfE-PUCHSlotsLCR
maxNrOfEPUCHcodes
                                INTEGER ::= 16
maxNrOfEHICHs
                                INTEGER ::= 32
maxNrOfCommonMACFlows
                                INTEGER ::= 8
maxNrOfCommonMACFlows-1
                                INTEGER ::= 7
maxNrOfPagingMACFlow
                                INTEGER ::= 4
maxNrOfPagingMACFlow-1
                                INTEGER ::= 3
maxNrOfcommonMACQueues
                                INTEGER ::= 8
maxNrOfpagingMACQueues
                                INTEGER ::= 8
maxNrOfHS-DSCHTBSsE-PCH
                                INTEGER ::= 2
maxGANSSSat
                                INTEGER ::= 64
maxNoGANSS
                                INTEGER ::= 8
maxSqnType
                                INTEGER ::= 8
maxFrequencyinCell
                                INTEGER ::= 12
maxFrequencyinCell-1
                                INTEGER ::= 11
```

```
maxHSDPAFrequency
maxHSDPAFrequency-1
                               INTEGER ::= 7
                               INTEGER ::= 224
maxNrOfHSSCCHsinExt.
maxGANSSSatAlmanac
                               INTEGER ::= 36
maxGANSSClockMod
                               INTEGER ::= 4
  *****************
id-AICH-Information
                                                                   ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd
                                                                   ProtocolIE-ID ::= 1
id-BCH-Information
                                                                   ProtocolTE-ID ··= 7
id-BCH-InformationItem-ResourceStatusInd
                                                                   ProtocolIE-ID ::= 8
id-BCCH-ModificationTime
                                                                   ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator
                                                                   ProtocolIE-ID ::= 10
id-Cause
                                                                   ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp
                                                                   ProtocolTE-ID ::= 14
id-CCP-InformationList-AuditRsp
                                                                   ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd
                                                                   ProtocolTE-ID ::= 16
id-Cell-InformationItem-AuditRsp
                                                                   ProtocolIE-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-ID
                                                                   ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy
                                                                   ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt
                                                                   ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst
                                                                   ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp
                                                                   ProtocolIE-ID ::= 33
id-CommonMeasurementType
                                                                   ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID
                                                                   ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD
                                                                   ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD
                                                                   ProtocolIE-ID ::= 37
id-CommunicationControlPortID
                                                                   ProtocolIE-ID ::= 40
id-ConfigurationGenerationID
                                                                   ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID
                                                                   ProtocolIE-ID ::= 44
id-CriticalityDiagnostics
                                                                   ProtocolIE-ID ::= 45
                                                                   ProtocolIE-ID ::= 48
id-DCHs-to-Add-FDD
id-DCH-AddList-RL-ReconfPrepTDD
                                                                   ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD
                                                                   ProtocolTE-TD := 50
id-DCH-DeleteList-RL-ReconfPrepFDD
                                                                   ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD
                                                                   ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRastFDD
                                                                   ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD
                                                                   ProtocolIE-ID ::= 55
id-DCH-FDD-Information
                                                                   ProtocolIE-ID ::= 56
id-DCH-TDD-Information
                                                                   ProtocolIE-ID ::= 57
id-DCH-InformationResponse
                                                                   ProtocolIE-ID ::= 59
                                                                   ProtocolIE-ID ::= 62
id-FDD-DCHs-to-Modify
id-TDD-DCHs-to-Modify
                                                                   ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRqstTDD
                                                                   ProtocolIE-ID ::= 65
```

INTEGER ::= 8

id-DCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 135
id-DedicatedMeasurementObjectType-DM-Rprt	ProtocolIE-ID ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	ProtocolIE-ID ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	ProtocolIE-ID ::= 69
id-DedicatedMeasurementType	ProtocolIE-ID ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 76
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-ReconfRgstTDD	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 ::= 126 ProtocolIE-ID ::= 127
	ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128
id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129
id-AdjustmentPeriod	ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130
id-MaxAdjustmentStep	
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
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-ReconfRgstFDD	ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID ::= 180
id-PrimaryScramblingCode	ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRgstTDD	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-AdditionRgstFDD	ProtocolIE-ID ::= 205
id-RL-informationItem-RL-DeletionRqst	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-Reconfreprob	ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 211
id-RL-InformationList-RL-AdditionRgstFDD	ProtocolIE-ID ::= 211 ProtocolIE-ID ::= 212
id-RL-informationList-RL-DeletionRqst	ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213
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id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 237
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 215
id-RL-InformationList-RL-SetupRqstFDD	ProtocolIE-ID ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 220
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-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 295
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 ::= 320
id-Not-Used-322	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
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-ReconfRgstTDD	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 ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 375
id-Not-Used-376	ProtocolIE-ID ::= 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 ProtocolIE-ID ::= 20
<pre>id-PRACH-ParametersItem-CTCH-SetupRqstTDD id-CCTrCH-InformationItem-RL-FailureInd</pre>	ProtocoliE-ID ::= 20 ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421
<pre>id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD id-CellSyncBurstInfoList-CellSyncReconfRqstTDD</pre>	ProtocolIE-ID ::= 494 ProtocolIE-ID ::= 482
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id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422
<pre>id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD</pre>	ProtocolIE-ID ::= 423 ProtocolIE-ID ::= 424
	ProtocoliE-ID ::= 424 ProtocolIE-ID ::= 425
<pre>id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD</pre>	ProtocoliE-ID ::= 425 ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocoliE-ID ::= 426 ProtocolIE-ID ::= 427
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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-SynchronisationReportType	ProtocolIE-ID ::= 438
id-SynchronisationReportCharacteristics	ProtocolIE-ID ::= 439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 119
id-ReferenceClockAvailability	ProtocolIE-ID ::= 435
id-ReferenceSFNoffset	ProtocolIE-ID ::= 436
id-InformationExchangeID	ProtocolIE-ID ::= 444
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID ::= 445
id-InformationType	ProtocolIE-ID ::= 446
id-InformationReportCharacteristics	ProtocolIE-ID ::= 447
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID ::= 448
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID ::= 449
id-IPDLParameter-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 451
id-IPDLParameter-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 452
id-IPDLParameter-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 453
id-IPDLParameter-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 454
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 74
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 ::= 99
id-DwPCH-LCR-Information-ResourceStatusInd	ProtocolIE-ID ::= 101
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-Information-AuditRsp	ProtocolIE-ID ::= 292
id-FPACH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 22
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-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 ::= 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	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 ::= 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
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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
id-UL-SIRTarget	ProtocolIE-ID ::= 510
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-ReconfRgst	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
id-PUSCH-Info-DM-Rqst	ProtocolIE-ID ::= 505
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-SetupRgstTDD	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-ReconfRgst	ProtocolIE-ID ::= 523
id-HS-PDSCH-FDD-Code-Information-PSCH-Reconfragst	ProtocolIE-ID ::= 524
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 525
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 526
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 527
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 527
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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
id-DelayedActivationInformation-RL-ActivationCmdTDD	ProtocolIE-ID ::= 235
id-neighbouringTDDCellMeasurementInformationLCR	ProtocolIE-ID ::= 58
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 ::= 531
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
-	ProtocolIE-ID ::= 558
<pre>id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD</pre>	ProtocolIE-ID ::= 559
	ProtocolIE-ID ::= 539 ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD	ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 563
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
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 572
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

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id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
                                                                     ProtocolIE-ID ::= 577
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD
                                                                     ProtocolTE-TD ··= 578
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRastTDD
                                                                    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
                                                                    ProtocolIE-ID ::= 585
id-HS-DSCHRequiredPowerValueInformation
id-HS-DSCHRequiredPowerValue
                                                                     ProtocolTE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission
                                                                         ProtocolIE-ID ::= 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
                                                                     ProtocolTE-TD ··= 593
id-Primary-CPICH-Usage-for-Channel-Estimation
                                                                    ProtocolIE-ID ::= 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-SetupRqstFDD
                                                                     ProtocolTE-TD ::= 598
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD
                                                                    ProtocolIE-ID ::= 599
id-Secondary-CPICH-Information
                                                                     ProtocolTE-ID ::= 600
id-Received-total-wide-band-power-For-CellPortion
                                                                    ProtocolIE-ID ::= 601
id-Unidirectional-DCH-Indicator
                                                                     ProtocolIE-ID ::= 602
id-TimingAdjustmentValueLCR
                                                                     ProtocolIE-ID ::= 603
id-multipleRL-dl-DPCH-InformationList
                                                                    ProtocolIE-ID ::= 604
                                                                     ProtocolIE-ID ::= 605
id-multipleRL-dl-DPCH-InformationModifyList
                                                                    ProtocolIE-ID ::= 606
id-multipleRL-ul-DPCH-InformationList
id-multipleRL-ul-DPCH-InformationModifyList
                                                                     ProtocolIE-ID ::= 607
id-RL-ID
                                                                    ProtocolIE-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
id-TnlOos
                                                                     ProtocolIE-ID ::= 616
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
                                                                                                                     Protocol TE-ID ::= 621
id-UpPTSInterferenceValue
                                                                    ProtocolIE-ID ::= 622
id-PrimaryCCPCH-RSCP-Delta
                                                                     ProtocolIE-ID ::= 623
id-MeasurementRecovervBehavior
                                                                    ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator
                                                                    ProtocolIE-ID ::= 625
id-MeasurementRecovervSupportIndicator
                                                                    ProtocolIE-ID ::= 626
id-Tstd-indicator
                                                                    ProtocolIE-ID ::= 627
id-multiple-RL-Information-RL-ReconfPrepTDD
                                                                     ProtocolIE-ID ::= 628
id-multiple-RL-Information-RL-ReconfRgstTDD
                                                                    ProtocolIE-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-SetupRqstFDD	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-ReconfRqstTDD	ProtocolIE-ID ::= 635
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 636
id-MICH-CFN	ProtocolIE-ID ::= 637
id-MICH-Information-AuditRsp	ProtocolIE-ID ::= 638
id-MICH-Information-ResourceStatusInd	ProtocolIE-ID ::= 639
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-ReconfRqstFDD	ProtocolIE-ID ::= 682
id-Maximum-Target-ReceivedTotalWideBandPower	ProtocolIE-ID ::= 683
id-E-DCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 684
id-HARQ-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
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-ReconfRqstTDD	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-ReconfRqstTDD	ProtocolIE-ID ::= 721
id-PICH-768-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 722
id-MICH-768-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 723
id-CommonPhysicalChannelID768-CommonTrChDeletionReq	ProtocolIE-ID ::= 724
id-S-CCPCH-768-InformationList-AuditRsp	ProtocolIE-ID ::= 725
id-S-CCPCH-768-Information-AuditRsp	ProtocolIE-ID ::= 726
id-neighbouringTDDCellMeasurementInformation768	ProtocolIE-ID ::= 727
id-PCCPCH-768-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 728
id-SCH-768-Information-Cell-SetupRgstTDD	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-SetupRqstTDD	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-AdditionReqFDD	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-DCH-Information	ProtocolIE-ID ::= 799
id-E-DCH-Information-Response	ProtocolIE-ID ::= 800
id-E-DCH-Information-Reconfig	ProtocolIE-ID ::= 801
id-E-PUCH-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 802

id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 803
id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 804
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-ReconfRqstTDD	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-ReconfRqst	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 ::= 872
id-Extended-RNC-ID	ProtocolIE-ID ::= 873
id-Max-UE-DTX-Cycle	ProtocolIE-ID ::= 874
id-Secondary-CCPCH-SlotFormat-Extended	ProtocolIE-ID ::= 876
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-Quality-Measurement-Value	ProtocolIE-ID ::= 884
id-GANSS-Common-Data	ProtocolIE-ID ::= 887
id-GANSS-Information	ProtocolIE-ID ::= 888
id-GANSS-Generic-Data	ProtocolIE-ID ::= 889
id-TUTRANGANSSMeasurementThresholdInformation	ProtocolIE-ID ::= 890
id-TUTRANGANSSMeasurementValueInformation	ProtocolIE-ID ::= 891
id-ModulationPO-MBSFN	ProtocolIE-ID ::= 892
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	ProtocolIE-ID ::= 902
id-Ext-Max-Bits-MACe-PDU-non-scheduled	ProtocolIE-ID ::= 903
id-HARQ-MemoryPartitioningInfoExtForMIMO	ProtocolIE-ID ::= 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-SetupRqstTDD	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-ResourceStatusIn	
id-UPPCHPositionLCR	ProtocolIE-ID ::= 919
id-UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD	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-ReconfRqs	
<pre>id-number-Of-Supported-Carriers id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR</pre>	ProtocolIE-ID ::= 925 ProtocolIE-ID ::= 926 ProtocolIE-ID ::= 927

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id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD
                                                                     ProtocolIE-ID ::= 928
id-multipleFreq-HS-DSCH-Resources-InformationList-AuditRsp
                                                                    ProtocolIE-ID ::= 929
id-multipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd ProtocolIE-ID ::= 930
id-UARFCNSpecificCauseList
                                                                     ProtocolIE-ID ::= 931
id-tSN-Length
                                                                     ProtocolIE-ID ::= 932
id-MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst
                                                                            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
                                                                    ProtocolIE-ID ::= 937
id-HSSICH-InfoExt-DM-Rqst
                                                                    ProtocolIE-ID ::= 938
id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRgst
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
id-Common-MACFlows-to-DeleteFDD
                                                                    ProtocolIE-ID ::= 943
id-Paging-MACFlows-to-DeleteFDD
                                                                    ProtocolIE-ID ::= 944
id-E-TFCI-Boost-Information
                                                                    ProtocolIE-ID ::= 945
id-SixteenQAM-UL-Operation-Indicator
                                                                     ProtocolIE-ID ::= 946
id-SixtyfourQAM-UsageAllowedIndicator
                                                                    ProtocolIE-ID ::= 947
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-MultipleFreg-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst ProtocolIE-ID ::= 955
id-MultipleFreg-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst ProtocolIE-ID ::= 956
id-Extended-E-HICH-ID-TDD
                                                                     ProtocolIE-ID ::= 957
id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator
                                                                    ProtocolIE-ID ::= 958
```

END

#### 9.3.7 Container Definitions

944

```
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
   TYPE
             &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 {
   &id ProtocolIE-ID
   &criticality Criticality,
   &Extension,
   &presence
                Presence
WITH SYNTAX {
   ID &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
   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}),
```

```
NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),
   value
             NBAP-PROTOCOL-IES. & Value
                                      ({IEsSetParam}{@id})
    -- Container for Protocol IE Pairs
    **********************
ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
   SEQUENCE (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}),
                    NBAP-PROTOCOL-IES-PAIR. & SecondValue ({IEsSetParam} { @id})
   secondValue
        *****************
-- 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})
  ******************
```

## 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. [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:

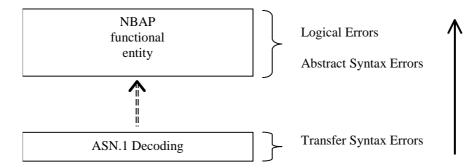


Figure 38: Protocol Errors in NBAP.

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:

- 1. Optional;
- 2. Conditional;
- 3. 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:**

- 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:**

- 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.
- 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.
- 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):

B or

## 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) 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 pre-emption 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) 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 preemption", 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  $T_{Preempt}$  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<sub>Preempt</sub> 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.

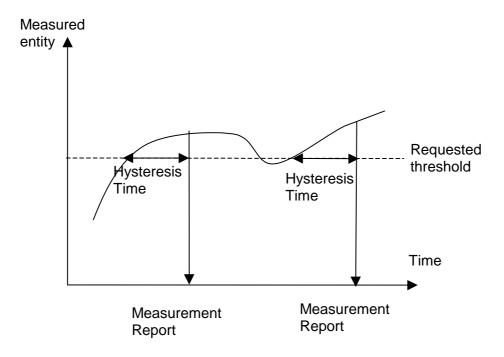


Figure B.1: Event A reporting with Hysteresis Time specified

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.

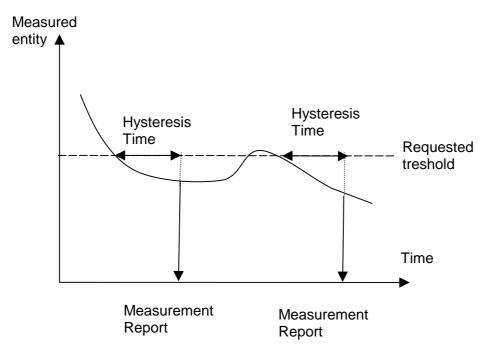


Figure B.2: Event B reporting with Hysteresis Time specified

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.

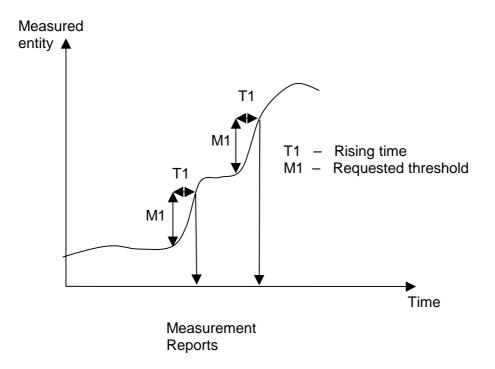


Figure B.3: Event C reporting

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.

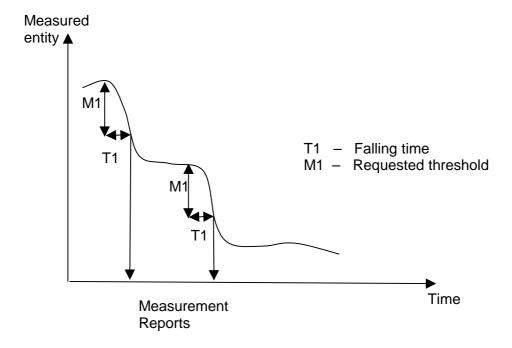


Figure B.4: Event D reporting

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.

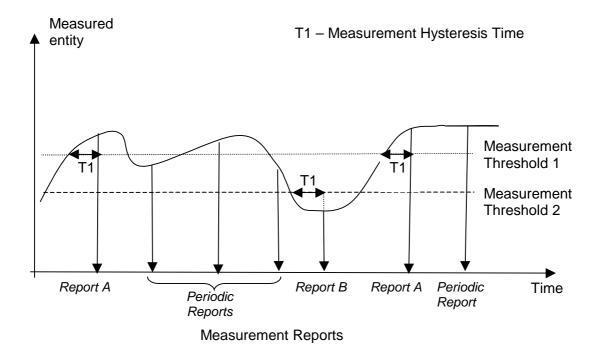
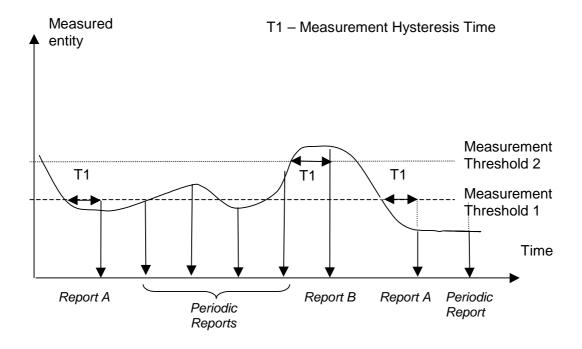


Figure B.5: Event E reporting with Hysteresis Time specified and Periodic Reporting requested

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 and Referenc e	Semantics Description	Criticality	Assigned Criticality
Message Type	М				YES	reject
Transaction ID	М				_	
A	M				YES	reject
В	М				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	М				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.

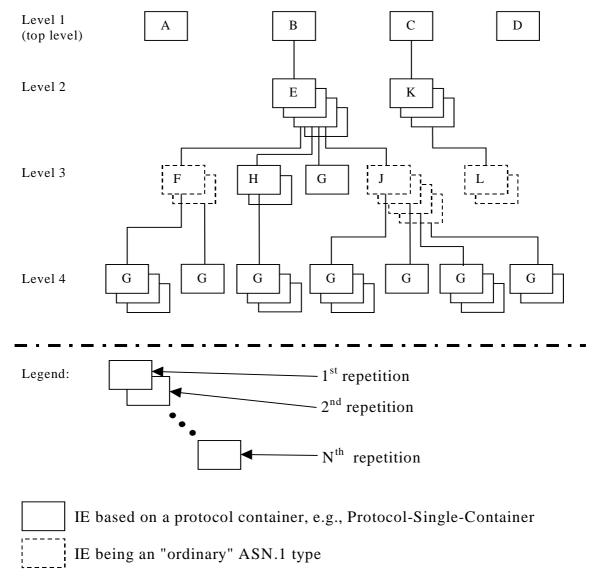
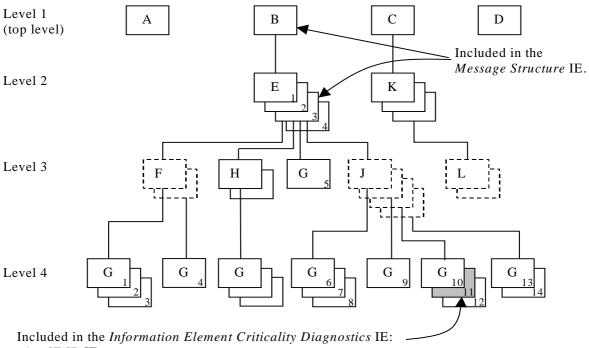


Figure C.1: Example of content of a received NBAP message based on the EXAMPLE MESSAGE

## C.3 Content of Criticality Diagnostics

## C.3.1 Example 1



- a) IE ID IE
- b) Repetition Number IE

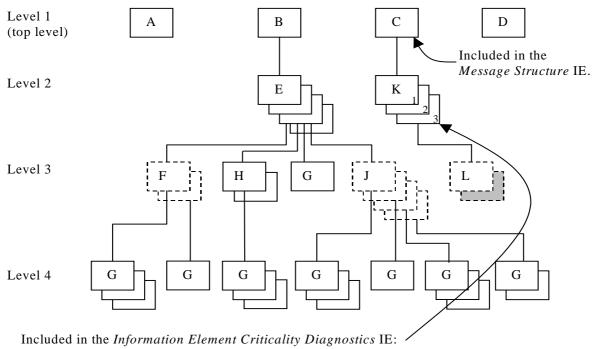
Figure C.2: Example of a received NBAP message containing a not comprehended IE

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 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 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

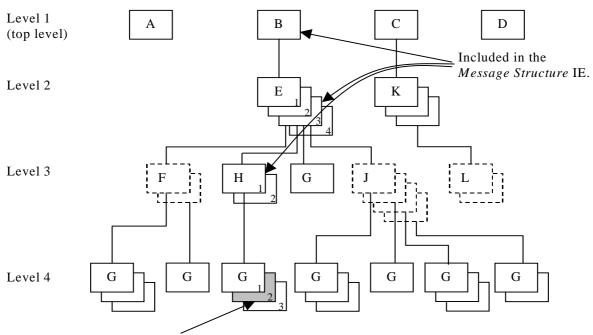
Figure C.3: Example of a received NBAP message containing a not comprehended IE

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	re, first repe	etition
>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

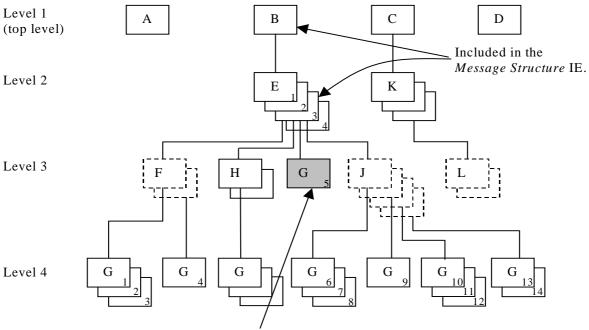
Figure C.4: Example of a received NBAP message containing a not comprehended IE

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

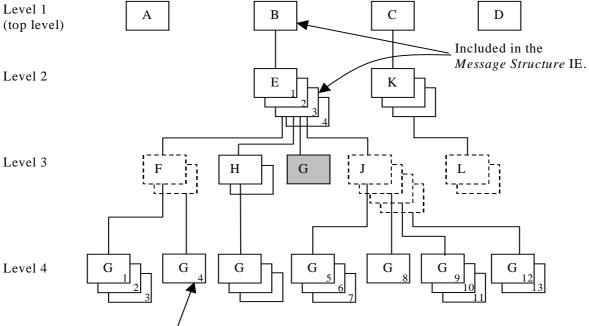
Figure C.5: Example of a received NBAP message containing a not comprehended IE

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 Structu	ure, first rep	etition
>IE ID	id-B	IE ID from level 1.
Message Structu	ure, 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 Structure, first repetition		
>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 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 {
    ProtocolIEs
                         ProtocolIE-Container
                                                            {{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 ::= {
 \hbox{E-List} ::= \hbox{SEQUENCE (SIZE (1..maxE)) OF ProtocollE-Single-Container { } \{\hbox{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 ::= {
    { ID id-H CRITICALITY ignore TYPE H PRESENCE mandatory }
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".

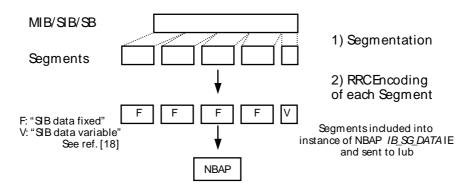


Figure D.1: The Building of Segments

#### 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.

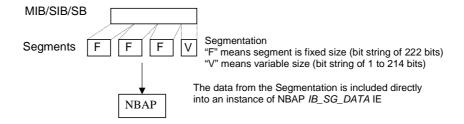


Figure D.2: The Building of Segments

## 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

					ge history
TSG RAN#	Version	CR	Tdoc RAN	New Version	Subject/Comment
RAN_06	-	-	RP-99764	3.0.0	Approved at TSG RAN #6 and placed under Change Control
RAN_07	3.0.0	-	-	3.1.0	Approved at TSG RAN #7
RAN_08	3.1.0	-	RP-000250	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000251	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000252	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000253	3.2.0	Approved at TSG RAN #8
RAN_09	3.2.0	165 168- 170, 173- 178, 180- 189	RP-000386	3.3.0	Approved at TSG RAN #9
RAN_09	3.2.0	190- 200, 203 205 207 208 211 214 218- 219	RP-000387	3.3.0	Approved at TSG RAN #9
RAN_09	3.2.0	221 222 224- 228 233 244, 246	RP-000388	3.3.0	Approved at TSG RAN #9
RAN_09	3.2.0	247- 248	RP-000389	3.3.0	Approved at TSG RAN #9
RAN_10	3.3.0	250- 324	RP-000627 RP-000628 RP-000630 RP-000697	3.4.0	Approved at TSG RAN #10
RAN_10	3.4.0			3.4.1	Correct of headers
RAN_11	3.4.1	325- 330, 333- 336, 339- 342, 344, 346- 348, 350- 356, 365, 367- 371, 377- 379, 383, 385- 386, 386, 388	RP-010125 RP-010126	3.5.0	Approved at TSG RAN #11

					Change history	_	
Date	TSG #	TSG Doc.	CR	Re v	Subject/Comment	Old	New
March 01	11	RP-010160	373,3 87		Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010166	361		Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010159	372,3 74,38 1		Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010164	358,3 59		Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010167	362		Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
06/2001	12	RP-010383	390,3 92,39 4,396, 398,4 00,40 2,404, 406		Approved at TSG RAN #12	4.0.0	4.1.0
06/2001	12	RP-010384	412,4 16,42 1,423, 427,4 31,43 3,437, 439,4		Approved at TSG RAN #12	4.0.0	4.1.0
06/2001	12	RP-010385	449,4 56,46 2,464, 467		Approved at TSG RAN #12	4.0.0	4.1.0
06/2001	12	RP-010396	413,4 14,41 5,416, 417,4 18,41 9,450, 451,4 52,45 3,454,		Approved at TSG RAN #12	4.0.0	4.1.0
09/2001	13	RP-010587	410	2	Ambiguity in CM handling	4.1.0	4.2.0
09/2001	13	RP-010587	472		Correction to Information Block Deletion	4.1.0	4.2.0
09/2001	13	RP-010587	476		Clarification of the AICH power	4.1.0	4.2.0
09/2001	13	RP-010587	479	1	Transport bearer replacement clarification	4.1.0	4.2.0
09/2001	13	RP-010587	481	1	Corrections to the PDSCH Code Mapping IE	4.1.0	4.2.0
09/2001	13	RP-010587	484	1	Correction to the handling of DL Code Information in RL Reconfiguration procedures	4.1.0	4.2.0
09/2001	13	RP-010587	485	1	Correction to the Error handling of the ERROR INDICATION message	4.1.0	4.2.0
09/2001	13	RP-010587	486		Correct max Codes discrepancy between tabular and ASN.1	4.1.0	4.2.0
09/2001 09/2001	13 13	RP-010587 RP-010587	488 491	1	S-CCPCH Corrections for TDD  Nbap criticality	4.1.0	4.2.0
09/2001	13		500	1	Clarification of Abnormal Conditions/Unsuccessful Operation	4.1.0	4.2.0
09/2001	13		504	<u>'</u>	Error handling of erroneously present conditional IEs	4.1.0	4.2.0
09/2001	13		507	1	Correction for maxNrOfCPCHs	4.1.0	4.2.0
09/2001	13		509	1	Correction for N_EOT	4.1.0	4.2.0
09/2001	13		513		Bitstrings ordering	4.1.0	4.2.0
09/2001	13		517		Mapping of TFCS to TFCI	4.1.0	4.2.0
09/2001	13		519	-	Correction of implementation of RAN#12 CRs	4.1.0	4.2.0
09/2001 09/2001	13 13		521 524	1	TDD Channelisation code range definition Clarification of chapter 10	4.1.0	4.2.0
09/2001	13	RP-010588	526	-	Clarification of use of Diversity Control Indicator	4.1.0	4.2.0
09/2001	13	RP-010588	528	3	Clarification of coordinated DCHs	4.1.0	4.2.0
09/2001	13	RP-010599	468	2	Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type	4.1.0	4.2.0
09/2001	13	RP-010599	470	L	Support of 8PSK modulation for LCR TDD	4.1.0	4.2.0
09/2001	13	RP-010599	473		DPC Mode in Radio Link Addition procedure	4.1.0	4.2.0
09/2001	13	RP-010599	475		Correction on NBAP function	4.1.0	4.2.0
09/2001	13	RP-010599	498	1	Adding protocol container in CHOICE type IE	4.1.0	4.2.0
09/2001	13	RP-010599	501	1	Clarification of Abnormal Conditions/Unsuccessful Operation	4.1.0	4.2.0
09/2001 09/2001	13 13	RP-010599	515	1	Corrections to position reporting CR to 25.433 v4.1.0: RX timing deviation as dedicated	4.1.0	4.2.0
00/200 I	13	RP-010599	518	2	measurement for 1.28Mcps TDD	7.1.0	7.2.0

09/2001	13	RP-010599	522	1	Clarification on the Time Slot LCR	4.1.0	4.2.0
10/2001	-	-	-	-	Editorial correction to correct the header	4.2.0	4.2.1
12/2001	14	RP-010897	530	2	CR on Priority range	4.2.1	4.3.0
12/2001	14	RP-010862	534		Bitstrings ordering	4.2.1	4.3.0
12/2001	14	DD 040963	F26		Added UTRAN modes in the IE Type and Reference and	4.2.1	4.3.0
40/0004	14	RP-010862	536		Semantics Description in IEs in NBAP messages Alignment to RAN4 spec for Transmitted Code Power	4.2.1	4.3.0
12/2001	14	RP-010862	538		Measurement	4.2.1	4.3.0
12/2001	14	RP-010862	540		Correction the Clause 10 Error Handling	4.2.1	4.3.0
12/2001	14	RP-010862	542		Clarification of TrCh Ordering in TFCS	4.2.1	4.3.0
12/2001	14	RP-010862	544		Addition of SIB15.4 and SIB18 to tabular	4.2.1	4.3.0
12/2001	14	RP-010862	550		Transmit Diversity for TDD	4.2.1	4.3.0
12/2001	14	RP-010862	552		Clarification for the definition of the ASN.1 constants	4.2.1	4.3.0
12/2001	14	RP-010862	559	1	Terminology Corrections	4.2.1	4.3.0
12/2001	14	RP-010863	560	1	Rel-4 specific terminology corrections	4.2.1	4.3.0
12/2001	14	RP-010863	562		Procedure Code Criticality in Error Indication	4.2.1	4.3.0
12/2001	14	111 010000	002		Clarification for the Power Adjustment Type IE in the DL POWER	4.2.1	4.3.0
12/2001	' '	RP-010863	565		CONTROL REQUEST message	1	1.0.0
12/2001	14	RP-010863	567	1	Forward Compatibility for DL Power Balancing	4.2.1	4.3.0
12/2001	14	RP-010863	569		Reconfiguration clarification	4.2.1	4.3.0
12/2001	14	RP-010863	571	2	Addition of amendment to clarify the PER encoding of bitstrings	4.2.1	4.3.0
12/2001	14	RP-010863	575	2	Transport Bearer replacement clarification for the DSCH case	4.2.1	4.3.0
12/2001	14	RP-010863	577		Clarification of the Transaction ID	4.2.1	4.3.0
12/2001	14	RP-010863	579	1	CPCH-related corrections	4.2.1	4.3.0
12/2001	14	RP-010863	582		Correction of S field length	4.2.1	4.3.0
12/2001	14	RP-010874	546	1	Correction of drift rate resolution	4.2.1	4.3.0
12/2001	14	RP-010874	547		Cell Parameter ID IE definition for 1.28Mcps TDD	4.2.1	4.3.0
12/2001	14				Amendment of the RADIO LINK ADDITION RESPONSE TDD	4.2.1	4.3.0
		RP-010874	548		message for LCR TDD		
12/2001	14	RP-010874	580	2	SFN-SFN quality indication	4.2.1	4.3.0
12/2001	14				Correction to SFN-SFN Observed Time Difference Measurement	4.2.1	4.3.0
		RP-010912	545	1	report mapping		
03/2002	15				Incorrect Physical Shared Channel TDD Procedure definition in	4.3.0	4.4.0
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03/2002	15				Removal of criticality information for Transaction ID in the ERROR	4.3.0	4.4.0
		RP-020174	593		INDICATION message		
03/2002	15	RP-020174	600		Clarification to measurement unit at Higher Layer Filtering.	4.3.0	4.4.0
03/2002	15	DD 000474	005		Correction of the Limited Power Increase in Synchronised Radio	4.3.0	4.4.0
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03/2002	15	RP-020174	623	1	Correction to physical channels which SCTD can be applied (lub)	4.3.0	4.4.0
03/2002	15	RP-020182	585	1	Corrections to the Information Exchange Initiation procedure	4.3.0	4.4.0
03/2002	15	RP-020182	586	1	Correction to UE position measurements quality and threshold information	4.3.0	4.4.0
03/2002	15	RP-020182	587	1	Correction to UE position measurements change and deviation limit formulas	4.3.0	4.4.0
03/2002	15	RP-020182	601	1	Modification of the T_utran-gps length	4.3.0	4.4.0
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03/2002	15	RP-020182	606		Amendment of the COMMON MEASUREMENT INITIATION REQUEST message	4.3.0	4.4.0
03/2002	15	RP-020182	609	1	ASN.1 and tabular amendments for LCR TDD	4.3.0	4.4.0
03/2002	15	RP-020182	610		Midamble shift LCR in the PHYSICAL SAHRED SCHANNEL RECONFIGURATION REQUEST [TDD] message	4.3.0	4.4.0
03/2002	15	RP-020182	617		NBAP Rapporteur corrections	4.3.0	4.4.0
03/2002	15	RP-020231	628	2	Removing of channel coding option "no coding" for FDD	4.3.0	4.4.0
03/2002	15	RP-020188	425	4	DL Power Capability as a shared resource between Cells	4.4.0	5.0.0
03/2002	15	RP-020188	496	4	Power Balancing Activation with Radio Link Setup and Radio Link Addition procedures in NBAP	4.4.0	5.0.0
03/2002	15	BB 020490	407	2	Power Balancing Restart with Radio Link Reconfiguration	4.4.0	5.0.0
	15	RP-020188	497	3	procedure in NBAP	1 1 2	F 0 0
02/2022	15	BB 020490	E02	2	Initial DL Power After addition of CCTrCH in Synchronized	4.4.0	5.0.0
03/2002		RP-020188	502	2	Reconfiguration	4.4.0	E 0 0
	15	DD 000404	500				5.0.0
03/2002	15	RP-020194	583		NBAP Signalling support for flexible hard split		
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03/2002		RP-020194 RP-020193 RP-020198	583 584 588	3			

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03/2002	15	RP-020188	598		Introduction separate max PDSCH power limitation	4.4.0	5.0.0
03/2002	15	RP-020199	602	2	Separation of Resource Reservation and Radio Link Activation	4.4.0	5.0.0
03/2002	15	RP-020196	603		Introduction of RL Timing Adjustment support	4.4.0	5.0.0
03/2002	15				Introduction of the Neighbouring TDD Cell Measurement	4.4.0	5.0.0
		RP-020193	607	1	Information LCR		
03/2002	15	RP-020191	608	2	Node B synchronisation for 1.28Mcps TDD	4.4.0	5.0.0
03/2002	15	RP-020190	612	3	HSDPA RL-Level Signalling for TDD & FDD	4.4.0	5.0.0
03/2002	15				Introduction of Angle of Arrival enhanced UE positioning for	4.4.0	5.0.0
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03/2002	15	RP-020194	626		NBAP changes for TFCI power control in DSCH hard split mode	4.4.0	5.0.0
06/2002	16	RP-020412	595	3	Introduction of Qth signalling in UTRAN	5.0.0	5.1.0
06/2002	16	RP-020412	633		Criticality Information Decoding Failure Handling	5.0.0	5.1.0
06/2002	16	RP-020412	636	1	Alignment of tabular and ASN.1 coding for DL power	5.0.0	5.1.0
06/2002	16	RP-020412	639	1	Correction to RL Restore Indication	5.0.0	5.1.0
06/2002	16	RP-020412	648		Use of PDSCH RL ID for TDD DSCH/USCH	5.0.0	5.1.0
06/2002	16	RP-020412	652		Clarification on the Neighboring TDD Cell Measurement information	5.0.0	5.1.0
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06/2002	16	RP-020412	659		Correction to Implementation of Rel-5	5.0.0	5.1.0
06/2002	16				Correction to the use of the CFN IE / SFN IE in the Measurement	5.0.0	5.1.0
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06/2002	16	RP-020412	672	1	NBAP Review Alignment of the ASN.1	5.0.0	5.1.0

06/2002	16	RP-020412	675		Definition of quality figures for SFN-SFN and Tutran-gps measurement value information	5.0.0	5.1.0
06/2002	16	RP-020412	686	1	Clarification for the usage of the cause value	5.0.0	5.1.0
06/2002	16	RP-020412	693	2	HS-DSCH Initial credits F	5.0.0	5.1.0
06/2002	16	RP-020412	698	1	TFCI2 bearer clarification	5.0.0	5.1.0
09/2002	17	RP-020612	706		WG4 Reference Corrections	5.1.0	5.2.0
09/2002	17	RP-020614	708		Rx Timing Deviation (TDD) corrections	5.1.0	5.2.0
09/2002	17	RP-020616	710		Clarification on the Common Measurement Reporting procedure	5.1.0	5.2.0
09/2002	17	RP-020628	711	1	Correction of HSDPA Common Configuration	5.1.0	5.2.0
09/2002	17	RP-020628	712		TFCI2 Bearer correction for IP transport	5.1.0	5.2.0
09/2002	17	RP-020628	686	1	Partial dedicated measurement reporting	5.1.0	5.2.0
09/2002	17	RP-020647	713	3	CQI and ACK/NACK Repetition Factor and Power Offset and k-value	5.1.0	5.2.0
09/2002	17	RP-020622	714		Change of Maximum Number of HS-SCCH Codes	5.1.0	5.2.0
09/2002	17	RP-020618	715	1	Clarification for the initial power of the power balancing (Pinit)	5.1.0	5.2.0
09/2002	17	RP-020619	716		Removal of BLER for HS-DSCH	5.1.0	5.2.0
09/2002	17	RP-020617	717	1	Correction for inconsistency in length of TFCI field 3	5.1.0	5.2.0
09/2002	17	RP-020629	514		One possible invisible implementation for UTRAN pure systems of GERAN specific LCS change in RANAP	5.1.0	5.2.0
09/2002	17	RP-020589	721	1	Replacing all occurences of P <sub>SIR</sub> (k) by □P <sub>curr</sub> in 25.423	5.1.0	5.2.0
09/2002	17	RP-020623	725	1	RL Parameter Update Procedure	5.1.0	5.2.0
09/2002	17	RP-020630	727	2	IP_offset correction	5.1.0	5.2.0
09/2002	17	RP-020613	729	2	Uplink Synchronisation in 1.28Mcps TDD	5.1.0	5.2.0
09/2002	17	RP-020609	733	2	Modification of PICH Parameters LCR TDD	5.1.0	5.2.0
09/2002	17	RP-020604	739	1	Handling of conflicting specification text	5.1.0	5.2.0
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12/2002	18	RP-020754	747	Ī	Alignment of Error Indication procedure text to the latest RNSAP	5.2.0	5.3.0
12/2002	18	RP-020758	749		Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	5.2.0	5.3.0
12/2002	18	RP-020757	751		Correction to RX Timing Deviation LCR value range	5.2.0	5.3.0
12/2002	18	RP-020759	753	2	Slot Format for 1.28Mcps TDD	5.2.0	5.3.0
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12/2002	18	RP-020773	756	1	Measurement power offset signalling for HSDPA	5.2.0	5.3.0
12/2002	18	RP-020768	757	<u>'</u>	Power offset values for HS-DPCCH	5.2.0	5.3.0
12/2002	18	RP-020768	764	3	MAC-hs Window Size	5.2.0	5.3.0
12/2002	18	RP-020655	767	1	Clarification on the Minimum Spreading Factor for TDD	5.2.0	5.3.0
12/2002	18	RP-020767	770	1	Addition of the second TDD Channelisation Code of HS-SCCH for the 1.28Mcps TDD option.	5.2.0	5.3.0
12/2002	18	RP-020765	772	1	Clarfication of the usage of HS-DSCH-RNTI	5.2.0	5.3.0
12/2002	18	RP-020754	780	<u> </u>	Clarification to RACH for 1.28Mcps TDD	5.2.0	5.3.0
12/2002	18	RP-020763	781		Correction for the definition of the MAC-hs Reordering Buffer Size	5.2.0	5.3.0
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12/2002	18	RP-020744	785		Correction for the DL DPDCH transmission	5.2.0	5.3.0
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03/2003	19	RP-030077	792	3	Correction to DL Tx Power for TDD	5.3.0	5.4.0
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03/2003	19	RP-030073	800	1	Clarification of HS-SCCH power offset usage in case of multiple HS-SCCHs	5.3.0	5.4.0
03/2003	19	RP-030081	801	1	HS-DSCH: addition of non-HS-DSCH power measurement	5.3.0	5.4.0
03/2003	19	RP-030080	803	1	Measurement for HS-SICH Outer Loop Power Control	5.3.0	5.4.0
03/2003	19	RP-030082	806	1	Corrections to Channelisation Code TFCI Mapping for TDD	5.3.0	5.4.0
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03/2003	19	RP-030071	811	Ė	Midamble Configuration for Midamble Shift LCR	5.3.0	5.4.0
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06/2003	20	RP-030320	840		Alignment of maximum HS DSCH code numbers to 25.211	5.4.0	5.5.0
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Exchange procedures								
19/2003   21   RP-030446   887   1   Removal of the note in chapter 10   5.5.0   5.6.0   6.009/2003   21   RP-030441   888   2   Correction for the start code number of HS-DDSCH   5.5.0   5.6.0   6.009/2003   21   RP-030441   894   2   Coordination with RRC about the TFS of DL DCH for HS-DSCH   5.5.0   5.6.0   6.009/2003   21   RP-030441   894   2   Coordination with RRC about the TFS of DL DCH for HS-DSCH   5.5.0   5.6.0   6.009/2003   21   RP-030441   898   2   Correction of CR 609 implementation error on definition of end of   6.5.0   5.6.0   6.009/2003   22   RP-030674   900   1   Correction to the Constant Value for TDD   6.5.0   5.6.0   5.7.0   6.009/2003   22   RP-030688   901   Correction for the HS-DSCH thilatil Capacity Allocation   5.6.0   5.7.0   6.009/2003   22   RP-030688   901   Correction for the HS-DSCH thilatil Capacity Allocation   5.6.0   5.7.0   6.009/2003   22   RP-030689   901   Correction for the HS-DSCH thilatil Capacity Allocation   5.6.0   5.7.0   6.009/2003   22   RP-030689   901   Reconfiguration of Multiple Radio Links in TDD   5.6.0   5.7.0   6.009/2003   22   RP-030679   907   Correction for the MAC-hs Reordering Buffer Size   5.6.0   5.7.0   6.009/2003   22   RP-030679   907   Correction for the Declicated Measurement procedure with all Node   5.6.0   5.7.0   6.009/2003   22   RP-030674   915   Correction of the Protocoliet Single-Containers in ASN.1 for TDD   5.6.0   5.7.0   6.009/2003   22   RP-030674   915   Correction of the Protocoliet Single-Containers in ASN.1 for TDD   5.6.0   5.7.0   6.009/2003   22   RP-030674   915   Correction of the Protocoliet Single-Containers in ASN.1 for TDD   5.6.0   5.7.0   6.009/2003   22   RP-030679   907   Correction of the Protocoliet Single-Containers in ASN.1 for TDD   5.6.0   5.7.0   6.009/2003   22   RP-030679   907   Correction of the Protocoliet Single-Containers in ASN.1 for TDD   5.6.0   5.7.0   6.009/2003   22   RP-030679   907   Correction of the Protocoliet Single-Containers in ASN.1 for TDD   5.6.0   5.7.0   6.009/2004   23	09/2003	21	RP-030444	884			5.5.0	5.6.0
19/2003   21   RP-030441   888   1   Correction for the start code number of HS-PDSCH   5.5   5.6   5.6     19/2003   21   RP-030447   890   2   Coordination with RRC about the TFS of DL DCH for HS-DSCH   5.5   0.5   5.6     19/2003   21   RP-030441   894   Correction of CR 609 implementation error on definition of end of audit sequence indicator and dwPCH power   5.5   0.5   5.6   6.6     19/2003   21   RP-030441   898   2   Clarification to the Constant Value for TDD   5.5   0.5   5.6     19/2003   22   RP-030674   900   1   Correction of the NoSCH initial Capacity Allocation   5.6   5.7   5.6     12/2003   22   RP-030687   901   Correction of the NoSCH initial Capacity Allocation   5.6   5.7   5.6     12/2003   22   RP-030689   901   Correction of Backward Compatibility for Uniterectional DCH   5.6   5.7   5.6     12/2003   22   RP-030692   903   Reconfiguration of Multiple Radio Links in TDD   5.6   5.7   5.6	09/2003	21	RP-030445	886		Alignment of title and sub-clause text of chapter 10.3.4.2	5.5.0	5.6.0
19/2003   21   RP-030441   888   1   Correction for the start code number of HS-PDSCH   5.5   5.6   5.6     19/2003   21   RP-030447   890   2   Coordination with RRC about the TFS of DL DCH for HS-DSCH   5.5   0.5   5.6     19/2003   21   RP-030441   894   Correction of CR 609 implementation error on definition of end of audit sequence indicator and dwPCH power   5.5   0.5   5.6   6.6     19/2003   21   RP-030441   898   2   Clarification to the Constant Value for TDD   5.5   0.5   5.6     19/2003   22   RP-030674   900   1   Correction of the NoSCH initial Capacity Allocation   5.6   5.7   5.6     12/2003   22   RP-030687   901   Correction of the NoSCH initial Capacity Allocation   5.6   5.7   5.6     12/2003   22   RP-030689   901   Correction of Backward Compatibility for Uniterectional DCH   5.6   5.7   5.6     12/2003   22   RP-030692   903   Reconfiguration of Multiple Radio Links in TDD   5.6   5.7   5.6	09/2003	21	RP-030446	887	1		5.5.0	5.6.0
19/2003   21   RP-030447   890   2   Coordination with RRC about the TFS of DL DCH for HS-DSCH   5.5.0   5.6.0	09/2003	1			1			5.6.0
19/2003   21   RP-030453   893   2   HS-DSCH Information usage description correction   5.5.0   5.6.6	09/2003							5.6.0
Section   Sect								
19/2003   21   RP-030674   901   Correction of two Constant Value for TDD   5.5.0   5.6.0   5.7.0   12/2003   22   RP-030687   901   Correction of wrong number in GPS Timing calculation   5.6.0   5.7.0	09/2003	_			_	Correction of CR 609 implementation error on definition of end of		5.6.0
12/2003   22   RP-030674   901   Correction of wrong number in GPS Timing calculation   5.6.0   5.7.0	00/005	0.4	DD 225 : : :	000			l	
12/2003   22   RP-030687   901   Correction for the HS-DSCH Initial Capacity Allocation   5.6.0   5.7.0					_			_
12/2003   22   RP-030688   902   Correction of Backward Compatibility for Uni-directional DCH   5.6.0   5.7.0					1			5.7.0
Indicator	12/2003	22	RP-030687	901		Correction for the HS-DSCH Initial Capacity Allocation	5.6.0	5.7.0
12/2003         22         RP-030692         903         Reconfiguration of Multiple Radio Links in TDD         5.6.0         5.7.6           12/2003         22         RP-030693         904         The usage of the MAC-hs Reordering Buffer Size         5.6.0         5.7.6           12/2003         22         RP-030679         907         Correction for the Dedicated Measurement procedure with all Node         5.6.0         5.7.6           12/2003         22         RP-030674         913         Correction of the repetition name for 1.28Mcps TDD in the RADIO         5.6.0         5.7.6           12/2003         22         RP-030674         915         1         Correction of Node B synchronisation procedures         5.6.0         5.7.6           12/2003         22         RP-030674         917         Correction of Node B synchronisation procedures         5.6.0         5.7.6           12/2003         22         RP-030674         917         Corrections for 1.28Mcps TDD         5.6.0         5.7.6           12/2003         22         RP-030679         91         1 TDR-Review Corrections for NBAP Rel-5         5.6.0         5.7.6           12/2003         22         RP-030691         921         1 TDR-Review Corrections for NBAP Rel-5         5.6.0         5.7.7           12	12/2003	22	RP-030688	902			5.6.0	5.7.0
12/2003   22   RP-030693   904   The usage of the MAC-hs Reordering Buffer Size   5.6.0   5.7.0	12/2003	22	RP-030692	903			5.6.0	5.7.0
12/2003   22   RP-030674   913   Correction for the Dedicated Measurement procedure with all Node   5.6.0   5.7.0								
12/2003   22   RP-030674   913   Correction of the repetition name for 1.28Mcps TDD in the RADIO   5.6.0   5.7.0	12/2003	_				Correction for the Dedicated Measurement procedure with all Node		5.7.0
12/2003         22         RP-030674         915         1         Correction of Node B synchronisation procedures         5.6.0         5.7.0           12/2003         22         RP-030674         917         Correction of the ProtocollE-Single-Containers in ASN.1 for TDD         5.6.0         5.7.0           12/2003         22         RP-030679         920         1         TDD-Review Corrections for NBAP Rel-5         5.6.0         5.7.0           12/2003         22         RP-030679         920         1         TDD-Review Corrections for NBAP Rel-5         5.6.0         5.7.0           12/2003         22         RP-030679         925         2         Explicit HARG Memory Partitioning Clarification         5.6.0         5.7.0           12/2003         22         RP-030684         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030689         937         1         Correction of Timing advance applied for 1.28Mcps TDD         5.6.0         5.7.0           12/2003         22         RP-030689         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030689         931         1 <td>12/2003</td> <td>22</td> <td>RP-030674</td> <td>913</td> <td></td> <td>Correction of the repetition name for 1.28Mcps TDD in the RADIO</td> <td>5.6.0</td> <td>5.7.0</td>	12/2003	22	RP-030674	913		Correction of the repetition name for 1.28Mcps TDD in the RADIO	5.6.0	5.7.0
12/2003         22         RP-030674         917         Correction of the ProtocollE-Single-Containers in ASN.1 for TDD         5.6.0         5.7.0           12/2003         22         RP-030679         919         ASN.1 corrections for 1.28Mcps TDD         5.6.0         5.7.0           12/2003         22         RP-030679         920         1         TDD-Review Corrections for NBAP Rel-5         5.6.0         5.7.0           12/2003         22         RP-030671         925         2         Explicit HARQ Memory Partitioning Clarification         5.6.0         5.7.0           12/2003         22         RP-030674         927         Clarification of Timing advance applied for 1.28Mcps TDD         5.6.0         5.7.0           12/2003         22         RP-030684         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030699         933         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030699         939         1         Unsynchronised R Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030699         939         1         Unsynchronised R Reconfiguration f								
12/2003   22   RP-030674   919   ASN.1 corrections for 1.28Mcps TDD   5.6.0   5.7.0	12/2003	22	RP-030674	915	1	Correction of Node B synchronisation procedures	5.6.0	5.7.0
12/2003         22         RP-030679         920         1         TDD-Review Corrections for NBAP Rel-5         5.6.0         5.7.0           12/2003         22         RP-030691         921         1         Range Extension for GPS Almanac Reporting         5.6.0         5.7.0           12/2003         22         RP-030713         925         2         Explicit HARQ Memory Partitioning Clarification'         5.6.0         5.7.0           12/2003         22         RP-030684         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030699         933         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030690         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030699         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030699         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030699         940         2	12/2003						5.6.0	5.7.0
12/2003         22         RP-030691         921         1         Range Extension for GPS Almanac Reporting         5.6.0         5.7.0           12/2003         22         RP-030713         925         2         Explicit HARQ Memory Partitioning Clarification*         5.6.0         5.7.0           12/2003         22         RP-030674         927         Clarification of Timing advance applied for 1.28Mcps TDD         5.6.0         5.7.0           12/2003         22         RP-030679         933         Ambiguity of the activation time of the Physical Shared CH Reconfiguration         5.6.0         5.7.0           12/2003         22         RP-030699         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030699         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030699         939         1         Unsynchronised RL Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030699         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction to Transmission	12/2003	22	RP-030674	919				5.7.0
12/2003   22   RP-030674   925   2   Explicit HARQ Memory Partitioning Clarification'   5.6.0   5.7.0	12/2003	22	RP-030679	920	1	TDD-Review Corrections for NBAP Rel-5	5.6.0	5.7.0
12/2003         22         RP-030674         927         Clarification of Timing advance applied for 1.28Mcps TDD         5.6.0         5.7.0           12/2003         22         RP-030684         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030679         933         Ambiguity of the activation time of the Physical Shared CH Reconfiguration         5.6.0         5.7.0           12/2003         22         RP-030690         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030694         938         1         Unsynchronised RL Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030694         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction to Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSD	12/2003	22	RP-030691	921	1		5.6.0	5.7.0
12/2003         22         RP-030684         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030679         933         Ambiguity of the activation time of the Physical Shared CH Reconfiguration         5.6.0         5.7.0           12/2003         22         RP-030690         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030695         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030694         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Val	12/2003	22	RP-030713	925	2	'Explicit HARQ Memory Partitioning Clarification'	5.6.0	5.7.0
12/2003         22         RP-030684         931         1         Removal of the ambiguity about the activation time         5.6.0         5.7.0           12/2003         22         RP-030679         933         Ambiguity of the activation time of the Physical Shared CH Reconfiguration         5.6.0         5.7.0           12/2003         22         RP-030690         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030695         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030694         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Val	12/2003	22	RP-030674	927		Clarification of Timing advance applied for 1.28Mcps TDD	5.6.0	5.7.0
12/2003         22         RP-030679         933         Ambiguity of the activation time of the Physical Shared CH Reconfiguration         5.6.0         5.7.0           12/2003         22         RP-030690         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030695         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030699         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE	12/2003	22	RP-030684	931	1		5.6.0	5.7.0
12/2003         22         RP-030690         937         1         Correction to Addition of HS-DSCH MAC-d Flows         5.6.0         5.7.0           12/2003         22         RP-030679         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030694         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030699         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Introffice the Space of Correction of Requested Data Value IE	12/2003	22		933		Ambiguity of the activation time of the Physical Shared CH	5.6.0	5.7.0
12/2003         22         RP-030679         938         1         Resource Status Indication and Audit for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030695         939         1         Unsynchronised RL Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030699         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement	12/2003	22	BB-030600	937	1		560	570
12/2003         22         RP-030695         939         1         Unsynchronised RL Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030694         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           12/2003         22         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode					_			
12/2003         22         RP-030694         940         2         TNL QoS for uplink IP traffic         5.6.0         5.7.0           12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
12/2003         22         RP-030689         941         Correction of Transmission Gap Pattern Sequence Information         5.6.0         5.7.0           12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
12/2003         22         RP-030679         945         2         NBAP Review         5.6.0         5.7.0           12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           12/2003         22         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.0.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD					_			
12/2003         22         RP-030679         946         1         Correction to Physical Shared Channel Reconfiguration for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HS		1				· '		_
12/2003         22         RP-030679         947         1         Correction to Common Measurements for HSDPA         5.6.0         5.7.0           12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Priority Queue ID for HSDPA         6.0.0								
12/2003         22         RP-030683         949         Information Exchange Initiation behavior correction         5.6.0         5.7.0           12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with AIIIIIII					_			
12/2003         22         RP-030674         951         Extension of Requested Data Value IE         5.6.0         5.7.0           12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with AII NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the					1			5.7.0
12/2003         22         RP-030726         935         2         Signalling Support for Beamforming Enhancement         5.7.0         6.0.0           03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040069         978								5.7.0
03/2004         23         RP-040088         952         Interference measurement in UpPTS for 1.28Mcps TDD         6.0.0         6.1.0           03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSC	12/2003				<u> </u>			5.7.0
03/2004         23         RP-040071         954         1         Enabling of closed loop transmit diversity in TDD mode         6.0.0         6.1.0           03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in t			RP-030726		2			6.0.0
03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004		RP-040088				6.0.0	6.1.0
03/2004         23         RP-040071         956         Correction of Reconfiguration of Multiple Radio Links in TDD         6.0.0         6.1.0           03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004	23	RP-040071	954	1		6.0.0	6.1.0
03/2004         23         RP-040065         960         Corrections for HS-DSCH Configuration Signalling         6.0.0         6.1.0           03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004	23	RP-040071	956			6.0.0	6.1.0
03/2004         23         RP-040066         962         1         Priority Queue ID for HSDPA         6.0.0         6.1.0           03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004	23	RP-040065	960			6.0.0	6.1.0
03/2004         23         RP-040071         968         1         Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'         6.0.0         6.1.0           03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004				1			6.1.0
03/2004         23         RP-040058         972         1         NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message         6.0.0         6.1.0           03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004				_	Correction of the Dedicated Measurement Initiation procedure with		6.1.0
03/2004         23         RP-040071         974         NBAP Corrections for TDD         6.0.0         6.1.0           03/2004         23         RP-040068         978         Extension of the range of PCCPCH RSCP         6.0.0         6.1.0           03/2004         23         RP-040069         980         Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement         6.0.0         6.1.0	03/2004	23	RP-040058	972	1	NBAP ASN.1 Corrections for the CELL SYNCHRONISATION	6.0.0	6.1.0
03/2004 23 RP-040068 978 Extension of the range of PCCPCH RSCP 6.0.0 6.1.0 03/2004 23 RP-040069 980 Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement	00/000	00	DD 245 == 1	0= 1	<u> </u>		0.0.	
03/2004 23 RP-040069 980 Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement 6.0.0 6.1.0								6.1.0
Combinations of Dedicated Measurement		1						6.1.0
	03/2004	23	RP-040069	980			6.0.0	6.1.0
	03/2004	23	RP-040067	983			6.0.0	6.1.0

03/2004	23	RP-040071	985	<u> </u>	Correction to HS-SCCH Code Range	6.0.0	6.1.0
03/2004	23	RP-040064	987	4	Setting of TGPSI	6.0.0	6.1.0
06/2004	24	RP-040176	991	1	Correction of PHYSICAL SHARED CHANNEL RECONFIGURATION message	6.1.0	6.2.0
06/2004	24	RP-040178	993		Node B usage of the MAC-hs re-ordering buffer size	6.1.0	6.2.0
06/2004	24	RP-040180	995	1	Unsuccessful Operation of RL Setup Procedure for HSDPA	6.1.0	6.2.0
06/2004	24	RP-040184	997	1	Measurement Recovery Behavior for Common and Dedicated Measurement Procedures	6.1.0	6.2.0
06/2004	24	RP-040179	999		Clarification on number of and capacity reporting of Priority Queues	6.1.0	6.2.0
06/2004	24	RP-040181	1009		Power Balancing Corrections	6.1.0	6.2.0
06/2004	24	RP-040235	1010		Addition of TSTD for S-CCPCH in 3.84 Mcps TDD	6.1.0	6.2.0
09/2004	25 25	RP-040301	1014 1019	0	Use of Communication Context id in NBAP reset	6.2.0	6.3.0
09/2004	25	RP-040295 RP-040301	1019	2	Addition of TSTD for S-CCPCH, PICH and PDSCH in 1.28 Mcps TDD  Re-wording of the Intra-Node B Serving HS-DSCH Radio Link	6.2.0	6.3.0
09/2004	25	KF-040301	1021		Change in the Prepared Radio Link Reconfiguration procedure	0.2.0	0.3.0
09/2004	25	RP-040302	1025		Correction to tabular text associated with TDD DPCH Offset IE	6.2.0	6.3.0
09/2004	25	RP-040295	1029		Review on NBAP	6.2.0	6.3.0
09/2004	25	RP-040324	1032		Clarification on the FPACH configuration for 1.28Mcps TDD	6.2.0	6.3.0
09/2004	25	RP-040301	1036		Correction for HSDPA les	6.2.0	6.3.0
12/2004	26	RP-040434	1039		Removal of ASN ambiguity in TDD multiple RLs	6.3.0	6.4.0
12/2004	26	RP-040434	1041		Alignment of TFCI2/Signaling Bearer Re-arrangement IEs criticality and procedure text	6.3.0	6.4.0
12/2004	26	RP-040435	1048	1	Correction to the Assigned Criticality of UL Synchronisation Parameters LCR IE for 1.28Mcps TDD	6.3.0	6.4.0
12/2004	26	RP-040437	1049	4	Introduction of MBMS	6.3.0	6.4.0
12/2004	26	RP-040441	1056		outdated ITU-T reference	6.3.0	6.4.0
12/2004	26	RP-040434	1058	3	Adaptive encoding of IB_SG_DATA	6.3.0	6.4.0
12/2004	26	RP-040440	1059	1	CR for Introduction of E-DCH in NBAP	6.3.0	6.4.0
12/2004	26	RP-040518	1061		HS-DPCCH ACK/NACK preamble and postamble	6.3.0	6.4.0
03/2005	27	RP-050059	1068		Measurement Recovery Behavior in Dedicated Measurement Procedures	6.4.0	6.5.0
03/2005	27	RP-050054	1070		Availability Status reference correction	6.4.0	6.5.0
03/2005	27	RP-050038	1074	1	Removal of TGPL2	6.4.0	6.5.0
03/2005	27	RP-050053	1076		Wrong HS IE referenced	6.4.0	6.5.0
03/2005	27	RP-050054	1078		Measurement Power Offset IE optionality at HS-DSCH setup	6.4.0	6.5.0
03/2005	27	RP-050050	1080	1	Introduction of 'DL Transmission Branch Load' measurement	6.4.0	6.5.0
03/2005	27	RP-050058	1081	2	E-DCH NBAP ASN.1	6.4.0	6.5.0
03/2005	27	RP-050056	1082	1	Introduction of Fractional DPCH	6.4.0	6.5.0
03/2005	27	RP-050059	1083		Initial Radio Link Timing Adjustment	6.4.0	6.5.0
03/2005	27 27	RP-050062 RP-050053	1085 1087	2	HSDPA Code Allocation/Measurement per Cell Portion Interaction between Synchronised RL Reconfiguration and RL	6.4.0	6.5.0
					Deletion  Clarification on HS-DSCH Information IE		
03/2005	27	RP-050053	1089		Clarification on HS-DSCH information IE	6.4.0	6.5.0
06/2005	28	RP-050254	1088	3	Timing maintained hard HO	6.5.0	6.6.0
06/2005	28	RP-050236	1091		Addition of SIB5bis in IB Type	6.5.0	6.6.0
06/2005	28	RP-050233	1094		Proposed CR to 25.433 [Rel-6] on some IEs with SatID	6.5.0	6.6.0
06/2005	28	RP-050233	1095		Correction to the on demand measurement with no DPCH ID in the dedicated measurement procedure for TDD	6.5.0	6.6.0
06/2005	28	RP-050236	1096	3	Revision to HARQ Preamble Mode support	6.5.0	6.6.0
06/2005	28	RP-050225	1099	2	Feature Cleanup: Removal of CPCH	6.5.0	6.6.0
06/2005	28	RP-050229	1100	1	E-DCH general corrections and improvements	6.5.0	6.6.0
06/2005	28	RP-050229	1103	2	E-DCH Capacity Consumption Law	6.5.0	6.6.0
06/2005	28	RP-050229	1106	2	E-DCH diversity control	6.5.0	6.6.0
06/2005	28	RP-050229	1107	2	E-DCH: Provided bit-rate per logical channel priority measurement	6.5.0	6.6.0
06/2005	28	RP-050229	1108	1	E-DCH Maximum Received Total Wide Band Power	6.5.0	6.6.0
06/2005	28	RP-050224	1110	1	Feature clean-up: Removal of Compressed mode by puncturing	6.5.0	6.6.0
06/2005	28	RP-050221	1112	1	Feature clean-up: Removal of Tx diversity closed loop mode2	6.5.0	6.6.0
06/2005	28	RP-050222	1114	1	Feature clean-up: Removal of DSCH (FDD mode)	6.5.0	6.6.0
06/2005	28	RP-050218	1116	1	Feature Clean-up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512	6.5.0	6.6.0
06/2005	28	RP-050220	1118		Feature Clean-up: Removal of Support of dedicated pilot as sole phase reference	6.5.0	6.6.0
06/2005	28	RP-050219	1120	1	Feature Clean-up: Removal of SSDT	6.5.0	6.6.0
06/2005	28	RP-050229	1121	1	Correction on E-RGCH Sequence Signature	6.5.0	6.6.0
06/2005	28	RP-050230	1122	1	Introduction of Bundling Feature	6.5.0	6.6.0
06/2005	28	RP-050228	1124	1	Synchronisation for MBMS p-t-m Transmissions from Multiple Cells (Simulcast)	6.5.0	6.6.0
06/2005	28	RP-050229	1125	1	Alignment of NBAP with latest status of EUDCH stage 2 (TS 25.309) and RRC (TS 25.331)	6.5.0	6.6.0
09/2005	29	RP-050433	1126	2	NBAP stage 3 alignment with current status	6.6.0	6.7.

09/2005	29	RP-050433	1127		E-DCH Minimum Set Reference Correction	6.6.0	6.7.0
09/2005	29	RP-050444	1128	1	Improvement of the Abnormal Conditions description of the	6.6.0	6.7.0
20/202		DD 070107		<u> </u>	COMMON MEASUREMENT INITIATION procedure		
09/2005	29	RP-050435	1130	1	Signalling of Reference Received Total Wideband Power IE	6.6.0	6.7.0
09/2005	29	RP-050435	1132	-	Transport Bearer Rearrangement for HSUPA	6.6.0	6.7.0
09/2005	29	RP-050437 RP-050440	1135	2	Correction for Beamforming	6.6.0	6.7.0
09/2005 09/2005	29 29	RP-050440	1136 1140	2	Non HS transmitted power  E-DCH miscellaneous corrections	6.6.0	6.7.0
09/2005	29	RP-050434	1141		Maximum UE TX Power for E-DCH	6.6.0	6.7.0
09/2005	29	RP-050434	1142		Addition of MBMS Notification function description	6.6.0	6.7.0
09/2005	29	RP-050444	1143	1	Proposed CR to 25.433 [Rel-6] on Correction for the measurement	6.6.0	6.7.0
					report for PUSCH for TDD		
09/2005	29	RP-050444	1144	2	Proposed CR to 25.433 [Rel-6] on Correction for DPCH Modification in asynthronised RL reconfiguration procedure for LCR TDD	6.6.0	6.7.0
09/2005	29	RP-050433	1145	2	Serving to Non-serving power ratio	6.6.0	6.7.0
09/2005	29	RP-050433	1146		EDCH cleanup	6.6.0	6.7.0
09/2005	29	RP-050433	1147		Reconfiguration of E-RGCH/HICH at serving cell change	6.6.0	6.7.0
09/2005	29	RP-050440	1148	1	Maximum Transmission Power and Total HS Power for Cell Portion	6.6.0	6.7.0
12/2005	30	RP-050700	1151	1	Compressed Mode Reconfiguration	6.7.0	6.8.0
12/2005 12/2005	30	RP-050699 RP-050695	1155 1156	3	NBAP clean-up	6.7.0	6.8.0
12/2005	30	RP-050695	1156	2	EDCH Cell Capability Enhancement FDD Downlink Unidirectional DCH Indicator	6.7.0	6.8.0
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### History

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