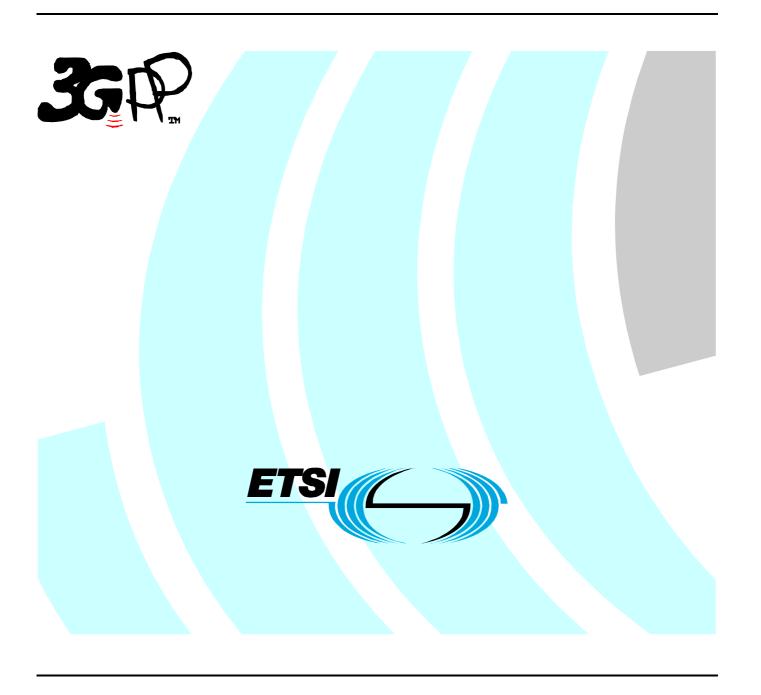
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ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

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Foreword

This Technical Specification has been produced by the 3GPP.

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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 25.309: "FDD Enhanced Uplink; Overall description; Stage 2".

3 Definitions, Symbols and Abbreviations

3.1 Definitions

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

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

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

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

Two kinds of EPs are used:

- Class 1: Elementary Procedures with response (success or failure).

- Class 2: Elementary Procedures without response.

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

Successful

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

Unsuccessful

- A signalling message explicitly indicates that the EP failed.

Class 2 EPs are considered always successful.

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

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

3.2 Symbols

Void.

DL

3.3 Abbreviations

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

Assisted GPS A-GPS AICH **Acquisition Indicator Channel ALCAP** Access Link Control Application Part ASN.1 Abstract Syntax Notation One **BCCH Broadcast Control Channel CCPCH** Common Control Physical Channel **CFN** Connection Frame Number CM Compressed Mode **CPICH** Common Pilot Channel Controlling Radio Network Controller **CRNC Dedicated Channel** DCH **DGPS** Differential GPS

DPCCH Dedicated Physical Control Channel
DPCH Dedicated Physical Channel
DPDCH Dedicated Physical Data Channel
DSCH Downlink Shared Channel
E-DCH Enhanced UL DCH

E-DCH Downlink Shared Channel
E-DCH Enhanced UL DCH
FACH Forward Access Channel
FDD Frequency Division Duplex

Downlink

F-DPCH Fractional DPCH FP Frame Protocol

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

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
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.
- [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 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.

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 [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
Cell Configuration Management	b) Cell Reconfiguration
	c) Cell Deletion
Common Transport Channel Management	a) Common Transport Channel Setup
Common Transport Chaimer Management	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
	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
Measurements on Dedicated Resources	Cancellation a) Dedicated Measurement Initiation
Measurements on Dedicated Resources	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 [TDD]	a) Cell Synchronisation Initiation
	b) Cell Synchronisation Reconfiguration
	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	TAILOILE
Transport	CHANNEL DELETION	CHANNEL DELETION	
Channel Deletion	REQUEST	RESPONSE	
Physical Shared	PHYSICAL SHARED	PHYSICAL SHARED	PHYSICAL SHARED
Channel	CHANNEL	CHANNEL	CHANNEL
Reconfiguration	RECONFIGURATION REQUEST	RECONFIGURATION RESPONSE	RECONFIGURATION FAILURE
Audit	AUDIT REQUEST	AUDIT RESPONSE	AUDIT FAILURE
Block Resource	BLOCK RESOURCE	BLOCK RESOURCE	BLOCK RESOURCE
	REQUEST	RESPONSE	FAILURE
Radio Link Setup	RADIO LINK SETUP	RADIO LINK SETUP	RADIO LINK SETUP
	REQUEST	RESPONSE	FAILURE
System Information Update	SYSTEM INFORMATION UPDATE REQUEST	SYSTEM INFORMATION UPDATE RESPONSE	SYSTEM INFORMATION UPDATE FAILURE
Common	COMMON MEASUREMENT	COMMON	COMMON
Measurement Initiation	INITIATION REQUEST	MEASUREMENT INITIATION RESPONSE	MEASUREMENT INITIATION FAILURE
Radio Link	RADIO LINK ADDITION	RADIO LINK ADDITION	RADIO LINK ADDITION
Addition Radio Link	REQUEST RADIO LINK DELETION	RESPONSE RADIO LINK DELETION	FAILURE
Deletion	REQUEST	RESPONSE	
Synchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link Reconfiguration Preparation	RECONFIGURATION PREPARE	RECONFIGURATION READY	RECONFIGURATION FAILURE
Unsynchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration Dedicated	REQUEST DEDICATED	RESPONSE DEDICATED	FAILURE DEDICATED
Measurement	MEASUREMENT	MEASUREMENT	MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION RESPONSE	INITIATION FAILURE
Reset	RESET REQUEST	RESET RESPONSE	
Cell	CELL SYNCHRONISATION	CELL	CELL
Synchronisation Initiation [TDD]	INITIATION REQUEST	SYNCHRONISATION INITIATION RESPONSE	SYNCHRONISATION INITIATION FAILURE
Cell	CELL SYNCHRONISATION	CELL	CELL
Synchronisation Reconfiguration [TDD]	RECONFIGURATION REQUEST	SYNCHRONISATION RECONFIGURATION RESPONSE	SYNCHRONISATION RECONFIGURATION FAILURE
Cell	CELL SYNCHRONISATION	CELL	CELL
Synchronisation Adjustment [TDD]	ADJUSTMENT REQUEST	SYNCHRONISATION ADJUSTMENT RESPONSE	SYNCHRONISATION ADJUSTMENT FAILURE
Information Exchange Initiation	INFORMATION EXCHANGE INITIATION REQUEST	INFORMATION EXCHANGE INITIATION RESPONSE	INFORMATION EXCHANGE INITIATION FAILURE

Table 3: Class 2

Elementary Procedure	Message
Resource Status Indication	RESOURCE STATUS INDICATION
Audit Required	AUDIT REQUIRED INDICATION
Common Measurement Reporting	COMMON MEASUREMENT
Common weasurement reporting	REPORT
Common Measurement	COMMON MEASUREMENT
Termination	TERMINATION REQUEST
Common Measurement Failure	COMMON MEASUREMENT
Common weasarement randre	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	TERMINATION REQUEST
Dedicated Measurement Failure	DEDICATED MEASUREMENT
Dedicated Measurement Failure	FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Command	COMPRESSED MODE COMMAND
[FDD]	COM RESSED MODE COMMAND
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
Tradio Ellik i Te-emplion	REQUIRED INDICATION
Cell Synchronisation Reporting	CELL SYNCHRONISATION
[TDD]	REPORT
Cell Synchronisation Termination	CELL SYNCHRONISATION
[TDD]	TERMINATION REQUEST
Cell Synchronisation Failure [TDD]	CELL SYNCHRONISATION
Cen Cyriorii orii satiori i aliare [122]	FAILURE INDICATION
Information Reporting	INFORMATION REPORT
Information Exchange Termination	INFORMATION EXCHANGE
Information Exchange Termination	TERMINATION REQUEST
Information Exchange Failure	INFORMATION EXCHANGE
I I I I I I I I I I I I I I I I I I I	FAILURE INDICATION
Bearer Re-arrangement	BEARER REARRANGEMENT
Board No arrangement	INDICATION
Radio Link Activation	RADIO LINK ACTIVATION
Tagio Ellik / tolivation	COMMAND
Radio Link Parameter Update	RADIO LINK PARAMETER UPDATE
Tadio Ellik i didilietei Opudie	INDICATION
MBMS Notification Update	MBMS NOTIFICATION UPDATE
Memo Notification opuate	COMMAND
	CONTINU TEL

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, RACH and FPACH [1.28Mcps TDD].

8.2.1.2 Successful Operation

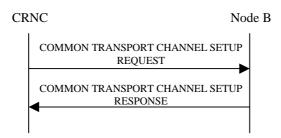


Figure 1: Common Transport Channel Setup procedure, Successful Operation

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.

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 — 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.

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 - 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.

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 and the *Transport Layer Address* IE 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

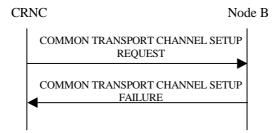


Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation

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.]

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.

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

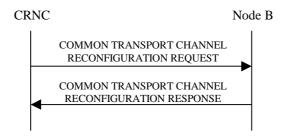


Figure 3: Common Transport Channel Reconfiguration, Successful Operation

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.

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.

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.

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.

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.

[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.

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

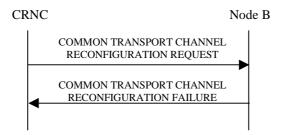


Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation

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

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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

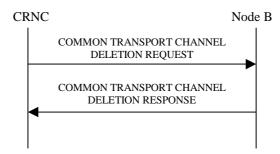


Figure 5: Common Transport Channel Deletion procedure, Successful Operation

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 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.

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.]

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

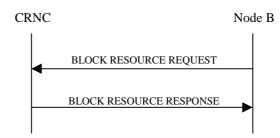


Figure 6: Block Resource procedure, Successful Operation

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

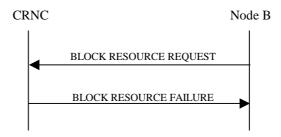


Figure 7: Block Resource procedure, Unsuccessful Operation

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

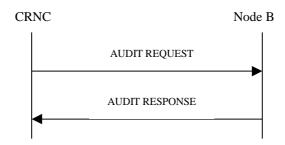


Figure 10: Audit procedure, Successful Operation

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" for every HSDPA-capable Local Cell. [FDD - The Node B shall include the *E-DCH Capability* IE set to "E-DCH Capable" for every E-DCH-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.]

[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, 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 capacity consumption law, 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.]

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

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

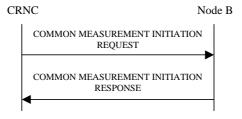


Figure 11: Common Measurement Initiation procedure, Successful Operation

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 - *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.]

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.

Common measurement type:

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

If the *Common Measurement Type* IE is set to "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", 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. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "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", 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. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "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", 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. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "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", 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. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "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", 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. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "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", 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. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "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", 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:

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

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

 F_n is the change of the $T_{\text{UTRAN-GPS}}$ 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_n

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

 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 $T_{UTRAN-GPS}$ Deviation 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], 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 $T_{UTRAN-GPS}$ Deviation Limit IE. The P_n and P_n 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), \ (P_n - M_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_{UTRAN-GPS} Drift Rate value.

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

 F_n is the deviation of the last measurement result from the predicted $T_{\text{UTRAN-GPS}}$ 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_n.

 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 [26].

- 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_n). 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_n 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_n.

 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.

- 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_n and F_n 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_n rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P_n and F_n are calculated according to the following:

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

 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_n of] the Frame SFN_n.

 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.

The SFN-SFN Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

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_I 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.

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.

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".

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.

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.

8.2.8.3 Unsuccessful Operation

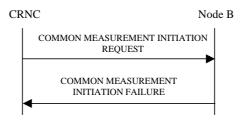


Figure 12: Common Measurement Initiation procedure, Unsuccessful Operation

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	X					
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	Х					
HS-DSCH Provided Bit Rate	Х					
Received Total Wide Band Power for Cell Portion	Х					
Transmitted Carrier Power for Cell Portion	X					
Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion	X					
UpPTS interference	1.28 Mcps TDD only					
DL Transmission Branch Load	FDD only		FDD only			
HS-DSCH Required Power for Cell Portion	Х		•			
HS-DSCH Provided Bit Rate for Cell Portion	Х					
E-DCH Provided Bit Rate	FDD only					
E-DCH Non-serving Relative Grant Down Commands	FDD only					

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps 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 not set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Common Measurement Accuracy* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

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

	Report Characteristics Type								
Common 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	Χ	X	X	Х	Х	Х	X	Х	
UTRAN GPS Timing of Cell	X	X	Α	Λ	Α	X		Α	Х
Frames for UE Positioning									
SFN-SFN	Χ	X							Х
Observed Time	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
Difference									
[TDD – Transmitted carrier power of all codes not used for HS-PDSCH or HS- SCCH transmission]	X	X	X	X	X	X	X	X	
[FDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission]									
HS-DSCH Required Power	Х	Х	Х	Х			Х	Х	
HS-DSCH Provided Bit Rate	Х	Х							
Received Total Wide Band Power for Cell Portion	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted Carrier Power for Cell Portion	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion	Х	Х	X	Х	Х	X	X	X	
UpPTS interference	X	X	X	X	Х	Х	X	X	
DL Transmission Branch Load	Х	Х	Х	Х			Х	Х	
HS-DSCH Required Power for Cell Portion	Х	Х	Х	Х			Х	X	
HS-DSCH Provided Bit Rate for Cell Portion	X	X							
E-DCH Provided Bit Rate	Х	Х							
E-DCH Non- serving Relative Grant Down Commands	Х	Х	Х	Х			Х	Х	

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.

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 or HS-SCCH transmission for Cell Portion measurements, HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate for Cell Portion, 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

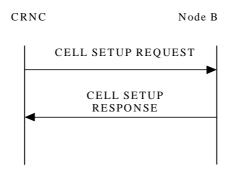


Figure 16: Cell Setup procedure, Successful Operation

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.

[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 - 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 mode 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. 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].]

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 - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps 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].

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

[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.]

8.2.12.3 Unsuccessful Operation

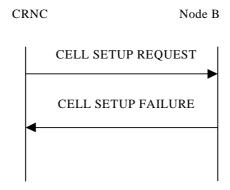


Figure 17: Cell Setup procedure: Unsuccessful Operation

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

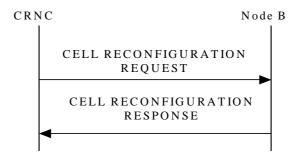


Figure 18: Cell Reconfiguration procedure, Successful Operation

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.]

[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.]

[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 CPPCH 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 - 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 - 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.]

8.2.13.3 Unsuccessful Operation

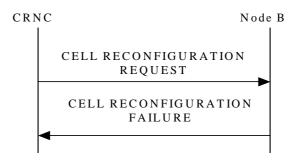


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

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

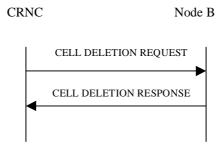


Figure 20: Cell Deletion procedure, Successful Operation

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.

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
- 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.

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" for the Local Cell.

[FDD - 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.]

[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.]

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.]

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

[FDD - If the E-DCH capability has changed for the Local Cell, the new capability shall be indicated in the *E-DCH 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.]

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.

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.

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.]

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.

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.

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

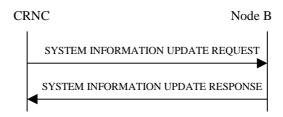


Figure 22: System Information Update procedure, Successful Operation

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

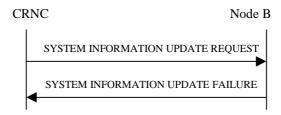


Figure 23: System Information Update procedure, Unsuccessful Operation

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, 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 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.]
- [FDD –For the first E-DCH RL in the RADIO LINK SETUP RESPONSE message, the Node B shall 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 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, 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.]

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.

[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 - 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.
- 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.
- 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].
- [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 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.]

[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-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 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.]
- [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 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 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 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 - 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.]

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 is 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.]

[FDD - DPCH Handling]:

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

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

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

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 δP_{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 - 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 - 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 - 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 - 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 - 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_{init}* shall be set to the power level indicated by the *Initial DL Transmission Power* IE.]

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

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

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

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 - 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 all RLs having a common generation of E-RGCH information with another RL, or are candidates for a common generation of E-RGCH information with another RL, when this Node B would contain the E-DCH serving RL, the Node B shall assign to each RL the same value for the *E-DCH RL Set ID* IE, included in the RADIO LINK SETUP RESPONSE message, to uniquely identify these RLs as members of the same E-DCH RL Set within the Node B Communication Context.]

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
- DPC mode change not supported
- Delayed Activation not supported
- F-DPCH not supported.

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", 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.

[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.]

[FDD - If the RADIO LINK SETUP REQUEST message contains information which would configure a HS-DSCH Radio Link, 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 SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains information which would configure an E-DCH Radio Link, 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 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.]

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.]

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

8.2.18.2 Successful Operation

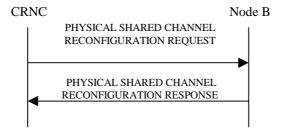


Figure 26: Physical Shared Channel Reconfiguration, Successful Operation

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.]

 $[FDD-If the PHYSICAL\ SHARED\ CHANNEL\ RECONFIGURATION\ REQUEST\ message\ includes\ \textit{HS-SCCH}\ FDD\ Code\ Information\ IE,\ the\ Node\ B\ shall:$

- 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* 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] 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] 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.]

[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], 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.]

[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 - 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 - 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*], 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.]

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

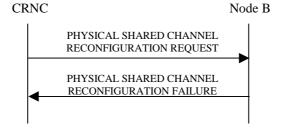


Figure 27: Physical Shared Channel Reconfiguration procedure: Unsuccessful Opreration

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:

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.]

[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, 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.]

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

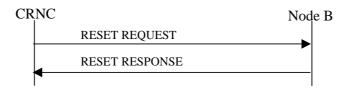


Figure 27A Reset procedure (CRNC to Node B), Successful Operation

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 Contexts controlled via the indicated 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

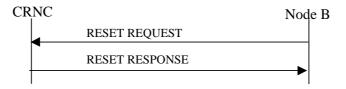


Figure 27B Reset procedure (Node B to CRNC), Successful Operation

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

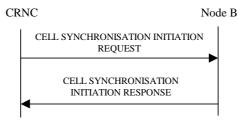


Figure 27C Cell Synchronisation Initiation procedure, Successful Operation

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

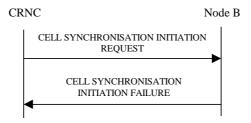


Figure 27D Cell Synchronisation Initiation procedure, Unsuccessful Operation

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

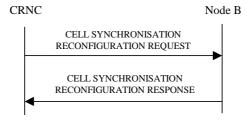


Figure 27E Cell Synchronisation Reconfiguration procedure, Successful Operation

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

 $SFN = floor((k\text{-}1) * Cycle \ length + (j\text{-}1)* Subcycle \ length + (i\text{-}1)* \ Repetition \ period)$

 $k = \{1, 2, 3, ... \text{ Number of cycle per SFN period}\}$

 $j = \{1, 2, 3, ...$ 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

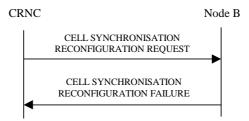


Figure 27F Cell Synchronisation Reconfiguration procedure, Unsuccessful Operation

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

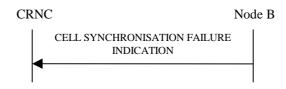


Figure 27I Cell Synchronisation Failure procedure, Successful Operation

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

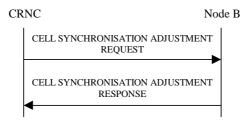


Figure 27J Cell Synchronisation Adjustment, Successful Operation

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

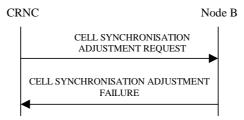


Figure 27K Cell Synchronisation Adjustment, Unsuccessful Operation

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

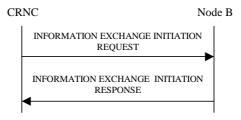


Figure 27L: Information Exchange Initiation procedure, Successful Operation

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.

Information Report Characteristics

The Information Report Characteristics IE indicates how the reporting of the information shall be performed.

If the *Information Report Characteristics* IE is set to "On Demand", the Node B shall report the requested information immediately.

If the *Information Report Characteristics* IE is set to "Periodic", the Node B shall immediately report the requested information and then shall periodically initiate the Information Reporting procedure for all the requested information, with the requested reporting frequency.

If the *Information Report Characteristics* IE is set to "On Modification", the Node B shall immediately report the requested information if available. If the requested information is not available at the moment of receiving the INFORMATION EXCHANGE INITIATION REQUEST message, but expected to become available after some acquisition time, the Node B shall initiate the Information Reporting procedure when the requested information becomes available. The Node B shall then initiate the Information Reporting procedure in accordance to the following conditions related to the *Information Type* IE:

- 1) If the *Information Type Item* IE is set to "DGPS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IODE.
- 2) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Navigation Model & Time Recovery", the Node B shall initiate the Information Reporting procedure for this

specific GPS Information Item when a change has occurred regarding either the IODC or the list of visible satellites, identified by the *Sat ID* IEs.

- 3) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Ionospheric Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- 4) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS UTC Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred in the t_{ot} or WN_t parameter.
- 5) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Almanac", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change in the t_{oa} or WN_a parameter has occurred.
- 6) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Real-Time Integrity", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- 7) If 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.

8.2.26.3 Unsuccessful Operation

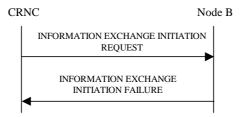


Figure 27M: Information Exchange Initiation procedure, Unsuccessful Operation

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", 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", 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 last 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

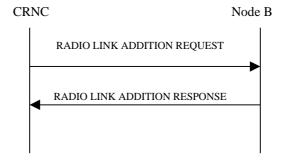


Figure: 28 Radio Link Addition procedure, Successful Operation

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*] 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*] is present, the Node B shall configure the new DL DPCH(s) 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 - In this case, for E-DCH, the Node B shall 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.]

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, 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.]

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.

[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 – 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 δP_{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 - 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 - 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 - 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 – 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.

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 - 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 all RLs having a common generation of E-RGCH information with another RL, or are candidates for a common generation of E-RGCH information with another RL, when this Node B would contain the E-DCH serving RL, the Node B shall assign to each RL the same value for the *E-DCH RL Set ID* IE, included in the RADIO LINK ADDITION RESPONSE message, to uniquely identify these RLs as members of the same E-DCH RL Set within the Node B Communication Context.]

[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.]
- [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 - 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.]
- [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 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].]
- [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 *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 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 - 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 *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 - 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 For all RLs having a common generation of E-RGCH information with another RL, or are canditates for a common generation of E-RGCH information with another RL, when this Node B would contain the E-DCH serving RL, the Node B shall assign to each RL the same value for the *E-DCH RL Set ID* IE, included in the

RADIO LINK ADDITION RESPONSE message, to uniquely identify these RLs as members of the same E-DCH RL Set within the Node B Communication Context.]

- [FDD For each RL, for which E-DCH is configured, not having a common generation of E-RGCH and related information with another RL, or are no canditates for a common generation of E-RGCH related information with another RL, when this Node B would contain the E-DCH serving RL, the Node B shall assign different values for the E-DCH RL Set ID IE, included in the RADIO LINK ADDITION RESPONSE message, to uniquely identify different E-DCH RL Sets within the Node B Communication Context.]
- [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.]

[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 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.]
- [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 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].]
- [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.]

[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 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 unsucessful, 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

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 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.

[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 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.]

[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.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains information which would configure a HS-DSCH Radio Link, 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 information which would configure an E-DCH Radio Link, 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.]

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

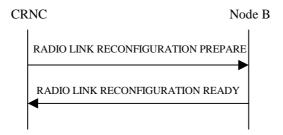


Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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 NodeB 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 NodeB 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 - 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-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, *DL DPCH To Add LCR* IE, or *DL DPCH To Add* IE, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Delete* IE or *DL DPCH To Delete* IE, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Modify* IE or *DL DPCH To Modify* IE and includes any of the *Repetition Period* IE, *Repetition Length* IE or *TDD DPCH Offset* IE, or the message includes UL/DL Timeslot Information and includes any of the [3.84Mcps TDD *Midamble Shift And Burst Type* IE], [1.28Mcps TDD *Midamble Shift LCR* IE], 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 LCR* 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.]

[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], 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.]

[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, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, 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 – 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 δP_{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 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 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 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 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 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.]

[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.
- 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.
- 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].

- [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 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.]

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 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 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 a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, 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 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 *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*] IEs 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 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.]
- [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.]

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 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.
- The Node B may include the *HARQ Memory Partitioning* 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 *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 For all RLs having a common generation of E-RGCH information with another RL, or are candidates for a common generation of E-RGCH information with another RL, when this Node B would contain the E-DCH serving RL, the Node B shall assign to each RL the same value for the *E-DCH RL Set ID* IE, included in the RADIO LINK RECONFIGURATION READY message, to uniquely identify these RLs as members of the same E-DCH RL Set within the Node B Communication Context.]
- [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 - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the Node B may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]

- [FDD - The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E-DCH RL Indication* set to "Non E-DCH".]

[FDD - 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 *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 ($\beta_{ed,i,uq}$) 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 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-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 - 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.]

[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.]

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,* [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 or MAC-d flow being added, or any Transport Channel or MAC-d flow 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 or MAC-d flow being added or any Transport Channel or MAC-d flow 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 only for one of the DCH in the set of co-ordinated 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 in the *DCH Information Response* IE shall be included only for one of the combined Radio Links.

8.3.2.3 Unsuccessful Operation

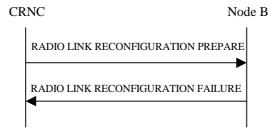


Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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.

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.

[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.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains information which would configure a HS-DSCH Radio Link, 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 information which would configure an E-DCH Radio Link, 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.]

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 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 *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 modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the indicated CFN. The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1 and in [24], subclause 5.8.2.

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 *CFN* IE. 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 requested CFN, 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

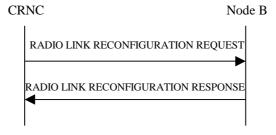


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

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 NodeB 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 NodeB 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 *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes a *DL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the information when building TFCIs in the new configuration.
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [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 - 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 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 δP_{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 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 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.]

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.
- 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.
- 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].
- [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 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.]

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 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 IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To ModifyUnsynchronised* IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, 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 [32].
- 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 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.]

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 the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

[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 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 For all RLs having a common generation of E-RGCH information with another RL, or are candidates for a common generation of E-RGCH information with another RL, when this Node B would contain the E-DCH serving RL, the Node B shall assign to each RL the same value for the *E-DCH RL Set ID* IE, included in the RADIO LINK RECONFIGURATION RESPONSE message, to uniquely identify these RLs as members of the same E-DCH RL Set within the Node B Communication Context.]
- [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 – 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 - 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 *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 ($\beta_{ed,j,uq}$) 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 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-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 - 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.]

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] 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 or MAC-d flow being added or any Transport Channel or MAC-d flow 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 or MAC-d flow being added or any Transport Channel or MAC-d flow 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.

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 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 in the *DCH Information Response* IE shall be included only for one of the combined Radio Links.

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

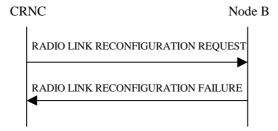


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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

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.

[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.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains information which would configure a HS-DSCH Radio Link, 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 information which would configure an E-DCH Radio Link, 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.]

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

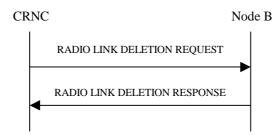


Figure 36: Radio Link Deletion procedure, Successful Operation

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 ± 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

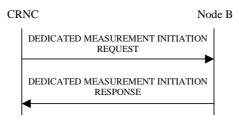


Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

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 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 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 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.

Interaction with Reset Procedure:

If a measurement has been requested with the *Node B Communication Context ID* IE set to "All NBCC", the Node B shall terminate the measurement locally if either the CRNC or the Node B initiates the Reset procedure for the relevant Communication Control Port or the entire Node B.

8.3.8.3 Unsuccessful Operation

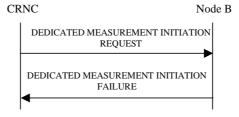


Figure 39: Dedicated Measurement Initiation procedure: Unsuccessful Operation

If the requested measurement cannot be initiated, the Node B shall send a DEDICATED MEASUREMENT INITIATION FAILURE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

In the case where the *Node B Communication Context ID* IE is set to "All NBCC" the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION FAILURE shall be set to the value "All CRNCCC", which is reserved for this purpose.

Typical cause values are as follows:

Radio Network Layer cause

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

Miscellaneous Cause

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

8.3.8.4 Abnormal Conditions

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

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

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

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

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.

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 – 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

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 NodeB 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

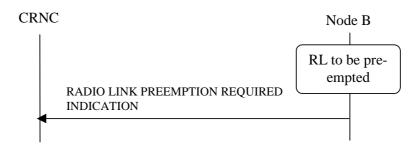


Figure 47B: Radio Link Pre-emption procedure, Successful Operation

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

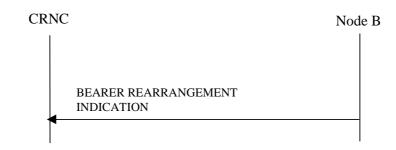


Figure 47C: Bearer Re-arrangement Indication, Successful Operation

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 is 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 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 IF 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	M				YES	ignore
Channel To Be Configured						
>Secondary CCPCH					_	
>>Secondary CCPCH		1			_	
>>>Common Physical Channel ID	M		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		_	
>>>TFCI Presence	C- SlotFormat		9.2.1.57	Refer to TS [7]	-	
>>>Multiplexing Position	М		9.2.2.23		_	
>>>Power Offset		1			_	
Information						
>>>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></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	M		9.2.1.60		_	
>>>Max FACH	M		DL Power	Maximum	_	
Power	IVI		9.2.1.21	allowed power on the FACH.		
>>>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	YES	ignore

				bearer		
				establishment		
				with ALCAP.		
>>>PCH Parameters		01	00444		YES	reject
>>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		_	
>>>PCH Power	М		DL Power 9.2.1.21		-	
>>>>PICH Parameters		1			_	
>>>>Common	М		9.2.1.13		_	
Physical Channel ID	М		9.2.2.14			
Channelisation Code Number	IVI		9.2.2.14		_	
>>>>PICH Power	М		9.2.1.49A		_	
>>>>PICH Mode	M		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	YES	ignore
				bearer establishment		
				with ALCAP.		
>>>>Transport Layer	0		9.2.1.63	Shall be	YES	ignore
Address				ignored if		
				bearer establishment		
				with ALCAP.		
>>>MICH Parameters		01		With ALONG.	YES	reject
>>>Common	М		9.2.1.13			· ojou
Physical Channel ID						
>>>FDD DL	М		9.2.2.14		_	
Channelisation Code						
Number						
>>>MICH Power	М		PICH		_	
			Power			
MIOLINA	N 4		9.2.1.49A	Ni walan af Nii		
>>>MICH Mode	М		9.2.2.21D	Number of NI per frame	_	
>>>STTD Indicator	M		9.2.2.48	регнаше	_	
>>>FDD S-CCPCH	0		9.2.2.46 9.2.2.14B		YES	reject
Frame Offset			0.2.2.140		120	16,601
>PRACH					_	
>>PRACH		1			_	
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>Scrambling Code	М		9.2.2.42		_	
Number			J.2.2.72			
>>>TFCS	М		9.2.1.58	For the UL.	_	
>>>Preamble	М		9.2.2.31		_	
Signatures						
>>>Allowed Slot		1 <maxı< td=""><td>no</td><td></td><td>_</td><td></td></maxı<>	no		_	

Format Information		ofSlotForm atsPRACH >				
>>>>RACH Slot Format	М		9.2.2.37		-	
>>>RACH Sub Channel Numbers	М		9.2.2.38		-	
>>>Puncture Limit	М		9.2.1.50	For the UL	_	
>>>Preamble Threshold	М		9.2.2.32		_	
>>>RACH Parameters		1			YES	reject
>>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>>Transport Format Set	М		9.2.1.59	For the UL.	_	
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>AICH Parameters		1			_	
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>AICH Transmission Timing	М		9.2.2.1		_	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		_	
>>>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
maxnoofLen	Maximum number of Min UL Channelisation Code Length
maxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH

9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	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 Channel To Be Configured	М				YES	ignore
>Secondary CCPCHs					_	
>>SCCPCH CCTrCH ID	М		CCTrCH ID 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	М		9.2.1.50		_	
>>CHOICE HCR or LCR	М			See note 1 below	_	
>>>3.84Mcps TDD					_	
>>>>Secondary CCPCH		1 <maxno ofSCCPC Hs></maxno 		See note 2 below	GLOBAL	reject
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>TDD Channelisation Code	M		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	М		9.2.3.16		_	
>>>>Repetition Length	М		9.2.3.15		_	
>>>>SCCPCH Power	M		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></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	М		9.2.3.24A		_	
LCR	IVI		J.Z.J.Z471			
>>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>>TDD Physical	М		9.2.3.20		_	
Channel Offset >>>> Repetition	M		9.2.3.16		_	
Period						
>>>>Repetition Length	M		9.2.3.15		_	
>>>>SCCPCH Power	М		DL Power 9.2.1.21		_	
>>>> SCCPCH	М		TDD DL		_	
Time Slot Format LCR			DPCH Time Slot Format			
			LCR			
>>FACH Parameters		0 <maxno< td=""><td>9.2.3.19D</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	9.2.3.19D		GLOBAL	reject
		ofFACHs>			OLODAL	- Fojeot
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>FACH CCTrCH ID	М		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
>>PCH Parameters		01			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>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	М			See note 1 below	_	
>>>>3.84Mcps TDD					_	
>>>>PICH Parameters		01			YES	reject
>>>>Common Physical Channel ID	М		9.2.1.13		_	

				1		
>>>>TDD Channelisation	M		9.2.3.19		-	
Code						
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble	М		9.2.3.7		_	
Shift And Burst Type						
>>>>TDD	М		9.2.3.20		_	
Physical Channel	IVI		9.2.3.20		_	
Offset						
>>>>Repetition	М		9.2.3.16		_	
Period	141		0.2.0.10			
>>>>Repetition	М		9.2.3.15		_	
Length						
>>>> Paging	М		9.2.3.8		_	
Indicator Length						
>>>>PICH	М		9.2.1.49A		_	
Power						
>>>>1.28Mcps TDD					1	
>>>>PICH		1			YES	reject
Parameters LCR						
>>>> Common	М		9.2.1.13		_	
Physical Channel						
ID						
>>>>TDD	М		9.2.3.19a		-	
Channelisation						
Code LCR						
>>>>Time Slot	М		9.2.3.24A		_	
LCR			0.2.0.2			
>>>> Midamble	М		9.2.3.7A		_	
Shift LCR						
>>>>TDD	М		9.2.3.20		-	
Physical Channel						
Offset						
>>>>Repetition	М		9.2.3.16		_	
Period						
>>>>Repetition	М		9.2.3.15		_	
Length						
>>>> Paging	M		9.2.3.8		_	
Indicator Length		-				
>>>>PICH Power	M		9.2.1.49A		_	
>>>>Second	M		TDD		_	
TDD	141		Channelisat			
Channelisation			ion Code			
Code LCR			LCR			
			9.2.3.19a			
>>>>TSTD Indicator	0		9.2.1.64		YES	reject
>>>PCH Power	0		DL Power	Applicable to	YES	reject
/// OII FOWEI			9.2.1.21	1.28Mcps TDD	123	reject
			₹.८.1.८1	only		
>>>Binding ID	0		9.2.1.4	Shall be	YES	ignore
///Diliging ID			J.2.1.4	ignored if	123	ignore
				bearer		
				establishment		
				with ALCAP.		
>>> Transport Layer	0		9.2.1.63	Shall be	YES	ignoro
>>>Transport Layer			9.2.1.03		169	ignore
Address	I		I.	ignored if		

		bearer	
		establishment	
		with ALCAP.	

>>TSTD Indicator	0		9.2.1.64		YES	reject
>>MICH Parameters		01			YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		-	10,000
>>>TDD Physical	M		9.2.3.20		_	
Channel Offset			0.0.0.40			
>>>Repetition Period	M		9.2.3.16		_	
>>>Repetition Length >>>Notification Indicator	M		9.2.3.15		-	
>>Notification indicator Length	IVI		9.2.3.7Aa		_	
>>>MICH Power	M		PICH		_	
			Power			
			9.2.1.49A			
>>>CHOICE <i>HCR or</i> LCR	M				_	
>>>3.84Mcps TDD					_	
>>>> MICH		1			YES	reject
Parameters HCR						
>>>>TDD Channelisation Code	M		9.2.3.19		_	
>>>>Time Slot	M		9.2.3.23		_	
>>>>Midamble	M		9.2.3.7			
Shift And Burst Type	IVI		9.2.3.7			
>>>>1.28Mcps TDD					_	
>>>>MICH		1			YES	reject
Parameters LCR						.,
>>>>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		-	
>>>>Second TDD Channelisation Code LCR	M		TDD Channelisat ion Code LCR 9.2.3.19a		_	
>>>>TSTD Indicator	М		9.2.1.64		_	
>PRACH					<u> </u>	
>>CHOICE HCR or LCR	М			See note 1 below	_	
>>>3.84Mcps TDD					_	
>>>>PRACH		1			YES	reject
>>>>Common Physical Channel ID	М		9.2.1.13		_	•
>>>>TFCS	М		9.2.1.58		_	
>>>>Time Slot	M		9.2.3.23		_	
>>>>TDD	M		9.2.3.19		_	
Channelisation Code						
>>>>Max PRACH	М		9.2.3.6		_	
Midamble Shifts						
>>>>PRACH Midamble	М		9.2.3.14		_	
>>>>RACH		1			YES	reject
>>>>Common	М		9.2.1.14		_	,

		1	ī	<u> </u>	1	
Transport Channel ID						
>>>>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
>>>1.28Mcps TDD					_	
>>>PRACH LCR		1 <maxno ofPRACHL CRs></maxno 			GLOBAL	reject
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>TFCS	М		9.2.1.58		_	
>>>>Time Slot	M		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	М		9.2.1.14		-	
>>>>Transport Format Set	М		9.2.1.59	For the UL	_	
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>FPACH		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps 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	М		9.2.3.5E		_	

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. Repetitions 1 to 8 and repetitions 9 to maxnoofSCCPCHs / maxnoofSCCPCHsLCR are represented by separate ASN.1 structures.

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
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	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	M		9.2.1.62		_	-
FACH Parameters Info		0 <maxno ofFACHs></maxno 		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>FACH Parameters	М		Common Transport Channel Information Response 9.2.1.14A		-	
PCH Parameters	0		Common Transport Channel Information Response 9.2.1.14A	The PCH Parameters may be combined with FACH Parameters	YES	ignore
RACH Parameters	0		Common Transport Channel Information Response 9.2.1.14A	The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation
maxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary
	CCPCH[FDD] / a group of Secondary CCPCHs [TDD]

9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	_
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	_
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0	-	9.2.1.17	_	YES	ignore

9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION **REQUEST**

9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned 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		_	
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></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		_	
>>PCH Parameters		01			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>PCH Power	0		DL Power	Power to be	_	
			9.2.1.21	used on the PCH.		
>>>ToAWS	0		9.2.1.61		_	
>>>ToAWE	0		9.2.1.60		_	
>>PICH Parameters		01			YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>PICH Power	0		9.2.1.49A		_	
>>MICH Parameters		01			YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>MICH Power	0		PICH Power 9.2.1.49A		_	
>PRACH					_	
>>PRACH Parameters		0 <maxp RACHCell</maxp 			GLOBAL	reject
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>Preamble Signatures	0		9.2.2.31		_	
>>>Allowed Slot Format Information		0 <maxno ofSlotForm atsPRACH ></maxno 			_	
>>>RACH Slot Format	М		9.2.2.37			

>>>RACH Sub Channel Numbers	0		9.2.2.38		-	
>>AICH Parameters		0 <maxp RACHCell ></maxp 			GLOBAL	reject
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>AICH Power	0		9.2.2.D		_	
>Not Used			NULL	This choice shall not be used. Reject procedure if received.	-	

Range Bound	Explanation
maxFACHCell	Maximum number of FACHs that can be defined in a Cell
maxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
maxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH

9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	-
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Secondary CCPCH Parameters		01			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 Hs></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	М		9.2.1.13		_	•
>PICH Power	0		9.2.1.49A		_	
FACH Parameters		0 <maxno ofFACHs></maxno 			GLOBAL	reject
>Common Transport Channel ID	M		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
PCH Parameters		01			YES	reject
>Common Transport Channel ID	М		9.2.1.14		_	•
>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
FPACH Parameters		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps 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		_	

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

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	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

9.1.9 COMMON TRANSPORT CHANNEL 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	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

9.1.10 COMMON TRANSPORT CHANNEL 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	М		9.2.1.46		YES	reject
Transaction ID	M		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	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.13 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	M		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.14 UNBLOCK RESOURCE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		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	M		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	

9.1.16 AUDIT REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		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	М		9.2.1.62		_	,
End Of Audit Sequence Indicator	М		9.2.1.29A		YES	ignore
Cell Information		0 <maxce IlinNodeB></maxce 			EACH	ignore
>C-ID	М		9.2.1.9		_	
>Configuration Generation ID	М		9.2.1.16		_	
>Resource Operational State	М		9.2.1.52		_	
>Availability Status	M		9.2.1.2		_	
>Local Cell ID	М		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 		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		0 <maxs< td=""><td></td><td>See note 1</td><td>EACH</td><td>ignore</td></maxs<>		See note 1	EACH	ignore

Information		CCPCHCe		below		
		<i>II></i>				
>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information		-	
>PCH Information	0		9.2.1.13A Common Transport Channel Status Information		YES	ignore
>PICH Information	0		9.2.1.14B Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>FACH Information		0 <maxfa CHCell></maxfa 			EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>PRACH Information		0 <maxp RACHCell ></maxp 			EACH	ignore
>>PRACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>RACH Information		0 <maxr ACHCell></maxr 	9.2.1.13A		EACH	ignore
>>RACH Individual Information	М	7.07100112	Common Transport Channel Status Information 9.2.1.14B		-	
>AICH Information		0 <maxp RACHCell ></maxp 		Applicable to FDD only	EACH	ignore
>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Not Used 1			NULL	This item shall not be used. Ignore if received.	-	
>Not Used 2			NULL	This item shall not be used.	-	

	1	T	1	T	T	T
				Ignore if		
				received.		
>Not Used 3			NULL	This item shall	_	
				not be used.		
				Ignore if		
				received.		
>Not Used 4			NULL	This item shall	_	
				not be used.		
				Ignore if		
				received.		
>SCH Information	0		Common	TDD Sync	YES	ignore
			Physical	Channel		Julia
			Channel	Applicable to		
			Status	3.84Mcps TDD		
			Information	only		
>FPACH Information		. 55	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	120	ignore
			Channel			
				only		
			Status			
			Information			
LIC DCCII December			9.2.1.13A			
>HS-DSCH Resources Information		01			YES	ignore
>>Resource Operational	М		9.2.1.52		_	
State	""		0.2.1.02			
>>Availability Status	М		9.2.1.2		_	
>MICH Information	0		Common		YES	ignore
			Physical			.9
			Channel			
			Status			
			Information			
>E-DCH Resources			9.2.1.13A		\	
>E-DCH Resources Information		01			YES	ignore
>>Resource Operational	М		9.2.1.52		_	
State			0.2.1.02			
>>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				3
		B>				
>Communication Control	М	=-	9.2.1.15		_	
Port ID			3.2.1.10			
>Resource Operational	М		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				
		odeB>				
	i		0.04.00			
>Local Cell ID	M		1 9.2.1.38		_	
>Local Cell ID >DL Or Global Capacity	M		9.2.1.38 9.2.1.20B			

>UL Capacity Credit	0		9.2.1.65A			
	_				_	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		_	
>Dedicated Channels Capacity Consumption Law	М		9.2.1.20A		_	
>Maximum DL Power Capability	0		9.2.1.39		_	
>Minimum Spreading Factor	0		9.2.1.47		_	
>Minimum DL Power Capability	0		9.2.1.46A		_	
>Local Cell Group ID	0		9.2.1.37A		_	
>Reference Clock	0		9.2.3.14A	TDD only	YES	ignore
Availability			0.2.0.1	155 0,	120	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		9.2.2.13J		YES	ignore
>E-DCH TTI2ms Capability	C- EDCHCap ability		9.2.2.13V		YES	ignore
>E-DCH SF Capability	C- EDCHCap ability		9.2.2.13W		YES	ignore
>E-DCH HARQ Combining Capability	C- EDCHCap ability		9.2.2.13X		YES	ignore
>E-DCH Capacity Consumption Law	0		9.2.2.13Ja		YES	ignore
>F-DPCH Capability	0		9.2.2.16a		YES	ignore
Local Cell Group		0 <maxlo< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxlo<>			EACH	ignore
Information		calCellinN odeB>				9
>Local Cell Group ID	М		9.2.1.37A		_	
>DL Or Global Capacity Credit	М		9.2.1.20B		_	
>UL Capacity Credit	0		9.2.1.65A		_	
>Common Channels	М		9.2.1.9A		_	
Capacity Consumption Law	141		3.2.1.3/			
>Dedicated Channels Capacity Consumption Law	М		9.2.1.20A		_	
>E-DCH Capacity Consumption Law	0		9.2.2.13Ja		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Power Local Cell Group Information		0 <maxlo calCellinN odeB></maxlo 	J.Z.		EACH	ignore
>Power Local Cell Group ID	М		9.2.1.49B		_	
>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.

Condition	Explanation
EDCHCapability	The IE shall be present if the E-DCH Capability IE is set to "E-DCH
	Capable".

Range Bound	Explanation
maxCellinNodeB	Maximum number of Cells that can be configured in Node B
maxCCPinNodeB	Maximum number of Communication Control Ports that can exist in the Node B
maxLocalCellinNodeB	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.
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

9.1.17A AUDIT FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	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 Measurement Object Type	М				YES	reject
>Cell					_	
>>C-ID	M		9.2.1.9		_	
>>Time Slot	0		9.2.3.23	Applicable to 3.84Mcps TDD only	_	
>>Time Slot LCR	0		9.2.3.24A	Applicable to 1.28Mcps TDD only	YES	reject
>>Neighbouring Cell Measurement		0 <maxno MeasNCell</maxno 			GLOBAL	ignore
Information		S>				
>>>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					_	
>>>>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
>RACH				FDD only	_	
>>C-ID	M		9.2.1.9	1	_	
>>Common Transport Channel ID	M		9.2.1.14		_	
>Not Used			NULL	This choice shall not be used. Reject procedure if received.	_	
>Additional Common 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

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	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
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	М		9.2.1.12		-	
>Not Used			NULL	This choice shall not be used.	-	
>Additional Common Measurement Object Types					_	
>>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	О		9.2.1.43C		YES	ignore

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	ianore

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	M			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell					_	
>>Common Measurement Value Information	М		9.2.1.12A		_	
>RACH				FDD only	_	
>>Common Measurement Value Information	М		9.2.1.12A		_	
>Not Used			NULL	This choice shall not be used.	-	
>Additional Common Measurement Object Types					_	
>>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

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	М		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

	T		T			1
Maximum Transmission Power	M		9.2.1.40		YES	reject
Closed Loop Timing Adjustment Mode	0		9.2.2.2A		YES	reject
Primary Scrambling Code	М		9.2.2.34		YES	reject
Synchronisation		1	0.2.2.0		YES	reject
Configuration					. 20	10,000
>N_INSYNC_IND	М		9.2.1.47A		_	
>N_OUTSYNC_IND	М		9.2.1.47B		_	
>T_RLFAILURE	М		9.2.1.56A		_	
DL TPC Pattern 01 Count	М		9.2.2.13A		YES	reject
Primary SCH Information		1			YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>Primary SCH Power	М		DL Power 9.2.1.21		_	
>TSTD Indicator	М		9.2.1.64		_	
Secondary SCH Information	141	1	0.2.1.01		YES	reject
>Common Physical	М	,	9.2.1.13		-	10,000
Channel ID	'*'		0.2.1.10		_	
>Secondary SCH Power	M		DL Power			
2 Coolingary Corri Owor			9.2.1.21			
>TSTD Indicator	М		9.2.1.64		_	
Primary CPICH Information		1			YES	reject
>Common Physical Channel ID	М		9.2.1.13		<u> </u>	5,200
>Primary CPICH power	М		9.2.2.33		_	
>Transmit Diversity Indicator	M		9.2.2.53		_	
Secondary CPICH		0 <maxs< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxs<>			EACH	reject
Information		CPICHCell			LAON	reject
>Common Physical	М		9.2.1.13		_	
Channel ID	'*'		0.2.1.10			
>DL Scrambling Code	М		9.2.2.13		_	
>FDD DL Channelisation	M		9.2.2.14		_	
Code Number	'''		0.2.2.1			
>Secondary CPICH Power	М		DL Power 9.2.1.21		-	
>Transmit Diversity Indicator	М		9.2.2.53		_	
Primary CCPCH		1			YES	reject
Information		,			120	10,000
>Common Physical Channel ID	М		9.2.1.13		_	
>BCH Information		1			_	
>>Common Transport	M	•	9.2.1.14			
Channel ID >>BCH Power	M		DL Power			
			9.2.1.21		_	
>STTD Indicator Limited Power Increase	M	1	9.2.2.48		YES	roinet
Information		'			1 5	reject
	M		0 2 2 201			
>Power_Raise_Limit >DL_power_averaging_win	M	+	9.2.2.29A 9.2.2.12A			
dow_size	IVI	0.4	3.2.2.12A		-	m=:= .
IPDL Parameter Information	N.4	01	0.0.0.400		YES	reject
>IPDL FDD Parameters	M		9.2.2.18C			
>IPDL Indicator Cell Portion Information	IVI	0 <maxno ofCellPorti ons></maxno 	9.2.1.36F		EACH	reject
>Cell Portion ID	M	UIIO>	9.2.2.1Ca		_	
>Associated Secondary CPICH	M		Common Physical Channel ID 9.2.1.13			

>Maximum Transmission	M	Maximum	-	
Power for Cell Portion		Transmissio		
		n Power		
		9.2.1.40		

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		_	
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	0	YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nt [15]	YES	reject
Cell Parameter ID	M		9.2.3.4		YES	reject
Maximum Transmission Power	M		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	М		9.2.1.47A		_	
>N_OUTSYNC_IND	М		9.2.1.47B		_	
>T_RLFAILURE	М		9.2.1.56A		_	
DPCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PUSCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PRACH Constant Value	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.	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.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>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		_	
Time Slot Configuration		015		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps	GLOBAL	reject

				TDD.		
>Time Slot	М		9.2.3.23	100.	_	
>Time Slot Status	M		9.2.3.25		_	
>Time Slot Direction	M		9.2.3.24		_	
Time Slot Configuration LCR		07	52.5.2	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		_	
>Time Slot Status	M		9.2.3.25		_	
>Time Slot Direction	M		9.2.3.24		_	
PCCPCH Information LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>TDD Physical Channel Offset	M		9.2.3.20		_	
>Repetition Period	M		9.2.3.16		ı	
>Repetition Length	M		9.2.3.15		1	
>PCCPCH Power	M		9.2.3.9		1	
>SCTD Indicator	М		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.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>TSTD Indicator	М		9.2.1.64		ı	
>DwPCH Power	М		9.2.3.5B			
Reference SFN Offset	0		9.2.3.14B		YES	ignore
IPDL Parameter Information		01		Applicable to 3.84 Mcps TDD only	YES	reject
>IPDL TDD Parameters	М		9.2.3.5D	-	_	
>IPDL Indicator	М		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		-	

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	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.27 CELL RECONFIGURATION REQUEST

9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned
			Reference	Description		Criticality
Massaga Disariminatar	М		9.2.1.45		_	
Message Discriminator	M		9.2.1.46		YES	reject
Message Type					163	reject
Transaction ID C-ID	M		9.2.1.62 9.2.1.9		YES	roiget
	M				YES	reject
Configuration Generation ID Maximum Transmission	O		9.2.1.16 9.2.1.40		YES	reject
Power	0		9.2.1.40		163	reject
Synchronisation		01			YES	reject
Configuration		0 1			123	reject
>N_INSYNC_IND	М		9.2.1.47A		_	
>N_OUTSYNC_IND	M		9.2.1.47B		_	
>T_RLFAILURE	M		9.2.1.56A		_	
Primary SCH Information	101	01	3.2.1.00/ t		YES	reject
>Common Physical	М	01	9.2.1.13		-	reject
Channel ID			0.2.1.10		_	
>Primary SCH Power	М		DL Power		_	
21 milary Corri awar	'''		9.2.1.21			
Secondary SCH Information		01	0.2.1.21		YES	reject
>Common Physical	М	0	9.2.1.13		_	·ojest
Channel ID			0.20			
>Secondary SCH Power	М		DL Power		_	
			9.2.1.21			
Primary CPICH Information		01			YES	reject
>Common Physical	М		9.2.1.13		_	,
Channel ID						
>Primary CPICH Power	М		9.2.2.33		_	
Secondary CPICH		0 <maxs< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxs<>			EACH	reject
Information		CPICHCell				
		>				
>Common Physical	M		9.2.1.13		_	
Channel ID						
>Secondary CPICH Power	M		DL Power		_	
			9.2.1.21			
Primary CCPCH		01			YES	reject
Information						
>BCH Information		1			_	
>>Common Transport	М		9.2.1.14		_	
Channel ID						
>>BCH Power	M		DL Power		_	
			9.2.1.21		\(\(\)	
IPDL Parameter Information		01	2 2 2 1 2 2		YES	reject
>IPDL FDD Parameters	0		9.2.2.18C		_	
>IPDL Indicator	M		9.2.1.36F		-	
Cell Portion Information		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxno<>			EACH	reject
		ofCellPorti				
Call Darting ID		ons>	0.0.040-			
>Cell Portion ID	M		9.2.2.1Ca		_	
>Maximum Transmission	M		Maximum		_	
Power for Cell Portion			Transmissio n Power			
			9.2.1.40			
			9.2.1.40			

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	M		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	0		9.2.3.22A		YES	reject
SCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		_	
>SCH Power	M		DL Power 9.2.1.21		_	
PCCPCH Information		01			YES	reject
>Common Physical Channel ID	M		9.2.1.13		_	
>PCCPCH Power	M		9.2.3.9		_	
Maximum Transmission Power	0		9.2.1.40		YES	reject
DPCH Constant Value	0		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PUSCH Constant Value	0		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PRACH Constant Value	0		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
Time Slot Configuration		015		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>Time Slot	М		9.2.3.23		_	
>Time Slot Status	М		9.2.3.25		_	
>Time Slot Direction	M		9.2.3.24		_	
Time Slot Configuration LCR		07		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		_	
>Time Slot Status	M		9.2.3.25		_	
>Time Slot Direction	М	ļ <u></u>	9.2.3.24		-	
DwPCH Information		01		Applicable to 1.28Mcps TDD only.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>DwPCH Power	М		9.2.3.5B		_	
IPDL Parameter Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>IPDL TDD Parameters	0		9.2.3.5D		_	
>IPDL Indicator	M		9.2.1.36F		_	
IPDL Parameter Information		01		Applicable to	YES	reject

LCR			1.28Mcps TDD		
			only		
>IPDL TDD Parameters LCR	0	9.2.3.5H		_	
>IPDL Indicator	M	9.2.1.36F		_	

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	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.29 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	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.30 CELL 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

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 NodeB></max 			EACH	ignore
>>>Local Cell ID	М		9.2.1.38		_	
>>>Add/Delete Indicator	M		9.2.1.1		_	
>>>DL Or Global Capacity Credit	C-add		9.2.1.20B		-	
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		-	
>>>Maximum DL Power Capability	C-add		9.2.1.39		_	
>>>Minimum Spreading Factor	C-add		9.2.1.47		_	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		-	
>>>Local Cell Group ID	0		9.2.1.37A		_	
>>>Reference Clock Availability	0		9.2.3.14A	TDD only	YES	ignore
>>>Power Local Cell Group ID	0		9.2.1.49B		YES	ignore
>>>HSDPA Capability	0		9.2.1.31Ga		YES	ignore
>>>E-DCH Capability	0		9.2.2.13J		YES	ignore
>>>E-DCH TTI2ms Capability	C- EDCHCap ability		9.2.2.13V		YES	ignore
>>>E-DCH SF Capability	C- EDCHCap ability		9.2.2.13W		YES	ignore
>>>E-DCH HARQ Combining Capability	C- EDCHCap ability		9.2.2.13X		YES	ignore
>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja		YES	ignore
>>>F-DPCH Capability	0		9.2.2.16a		YES	ignore
>>Local Cell Group Information		0 <maxlo calCellinN odeB></maxlo 			EACH	ignore
>>>Local Cell Group ID >>>DL Or Global	M M		9.2.1.37A 9.2.1.20B		-	
Capacity Credit			0.0.1.05.		1	
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels Capacity Consumption Law	M		9.2.1.9A		_	
>>>Dedicated Channels	M		9.2.1.20A		_	

Capacity Consumption						
Law	0		0.00401		VE0	•
>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja		YES	ignore
>>Power Local Cell Group Information		0 <maxlo calCellinN odeB></maxlo 			EACH	ignore
>>>Power Local Cell Group ID	М		9.2.1.49B		-	
>>>Maximum DL Power Capability	М		9.2.1.39		_	
Service Impacting					_	
>>Local Cell Information		0 <maxlo calCellinN odeB></maxlo 			EACH	ignore
>>>Local Cell ID	М		9.2.1.38		_	
>>>DL Or Global Capacity Credit	0		9.2.1.20B		_	
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels Capacity Consumption Law	0		9.2.1.9A			
>>>Dedicated Channels Capacity Consumption Law	0		9.2.1.20A		-	
>>>Maximum DL Power Capability	0		9.2.1.39		_	
>>>Minimum Spreading 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		9.2.2.13J		YES	ignore
>>>E-DCH TTI2ms Capability	C- EDCHCap ability		9.2.2.13V		YES	ignore
>>>E-DCH SF Capability	C- EDCHCap ability		9.2.2.13W		YES	ignore
>>>E-DCH HARQ Combining Capability	C- EDCHCap ability		9.2.2.13X		YES	ignore
>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja		YES	ignore
>>>F-DPCH Capability	0		9.2.2.16a		YES	ignore
>>Local Cell Group Information		0 <maxlo calCellinN odeB></maxlo 			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		_	
>>>DL Or Global Capacity Credit	0		9.2.1.20B		-	
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels Capacity Consumption Law	0		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	0		9.2.1.20A		_	

>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja		YES	ignore
>>Communication Control Port Information		0 <maxc CPinNode B></maxc 			EACH	ignore
>>>Communication Control Port ID	M		9.2.1.15		_	
>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	M		9.2.1.2		_	
>>Cell Information		0 <maxce IlinNodeB></maxce 			EACH	ignore
>>>C-ID	М		9.2.1.9		_	
>>>Resource	0		9.2.1.52		_	
Operational State						
>>>Availability Status	0		9.2.1.2		_	
>>>Primary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignor
>>>Secondary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignor
>>>Primary CPICH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignor
>>>Secondary CPICH Information		0 <maxs CPICHCell ></maxs 		FDD only	EACH	ignor
>>>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	ignor
>>>BCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignor
>>>Secondary CCPCH Information		0 <maxs CCPCHCe II></maxs 		See note 1 below	EACH	ignor
		l .	0			
>>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		_	

		Ţ	Γ	_		
			Transport			
			Channel			
			Status			
			Information 9.2.1.14B			
DIOLLInto monotic m	0		Common		YES	ignore
>>>PICH Information			Physical		ILO	ignore
			Channel			
			Status			
			Information			
			9.2.1.13A			
>>>FACH Information		0 <maxfa< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxfa<>			EACH	ignore
	<u> </u>	CHCell>				
>>>FACH Individual	M		Common		_	
Information			Transport Channel			
			Status			
			Information			
			9.2.1.14B			
>>>PRACH		0 <maxp< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxp<>			EACH	ignore
Information		RACHCell				Ŭ
		>				
>>>>PRACH	M		Common			
Individual Information			Physical			
			Channel			
			Status			
			Information 9.2.1.13A			
DACII Information		0 <maxp< td=""><td>9.2.1.13A</td><td></td><td>EACH</td><td>ignore</td></maxp<>	9.2.1.13A		EACH	ignore
>>>RACH Information		RACHCell			EACIT	ignore
		>				
>>>RACH Individual	М		Common		_	
Information			Transport			
inionnation			Channel			
			Status			
			Information			
			9.2.1.14B			
>>>AICH Information		0 <maxp< td=""><td></td><td>FDD only</td><td>EACH</td><td>ignore</td></maxp<>		FDD only	EACH	ignore
		RACHCell				
A CILL to dividual	M	>	Common		_	
>>>>AICH Individual	IVI		Physical		_	
Information			Channel			
			Status			
			Information			
	<u></u>		9.2.1.13A			
>>>Not Used 1			NULL	This item shall	_	
				not be used.		
		1		Ignore if		
	-		NII II I	received.		
>>>Not Used 2		1	NULL	This item shall	_	
				not be used. Ignore if		
				received.		
>>>Not Used 3			NULL	This item shall	_	
		1		not be used.		
				Ignore if		
				received.		
>>>Not Used 4			NULL	This item shall	_	
		1		not be used.		
				Ignore if		
				received.	\/=0	
>>>SCH Information	0		Common	Applicable to	YES	ignore
		1	Physical	3.84Mcps TDD		
		1	Channel Status	only		
		1	Information			
			9.2.1.13A			
	Ī	1	J 5.2. 1. 10/1	1		

>>>FPACH Information		0 <maxfp ACHCell></maxfp 		Applicable to 1.28Mcps TDD only	EACH	ignore
>>>FPACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>>>DwPCH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>>>HS-DSCH		01			YES	ignore
Resources Information						
>>>Resource	М		9.2.1.52		_	
Operational State						
>>>Availability Status	M		9.2.1.2		_	
>>>MICH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>E-DCH Resources Information		01			YES	ignore
>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	М		9.2.1.2		_	
>>Power Local Cell Group Information		0 <maxlo calCellinN odeB></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.

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".

Range Bound	Explanation
maxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
maxCellinNodeB	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
maxCCPinNodeB	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

9.1.33 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
C-ID	M		9.2.1.9		YES	reject
BCCH Modification Time	0		9.2.1.3		YES	reject
MIB/SB/SIBInformation		1 <maxib ></maxib 			GLOBAL	reject
>IB Type	M		9.2.1.35		_	
>IB OC ID	M		9.2.1.31A	In one message, every occurrence of IB Type can only be deleted once and/or added once.	_	
>CHOICE IB Deletion Indicator	M				_	
>>No Deletion					_	
>>>SIB Originator	C-SIB		9.2.1.55		_	
>>>IB SG REP	0		9.2.1.34		_	
>>>Segment Information		1 <maxib SEG></maxib 			GLOBAL	reject
>>>>IB SG POS	0		9.2.1.33		_	
>>>Segment Type	C- CRNCOrig ination		9.2.1.53B		_	
>>>>IB SG DATA	C- CRNCOrig ination		9.2.1.32		_	
>>Deletion			NULL		_	

Range bound	Explanation
maxIB	Maximum number of information Blocks supported in one message
maxIBSEG	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOrigination	The IE shall be present if the SIB Originator IE is set to "CRNC" or if the
	IB Type IE is set to "MIB", "SB1" or "SB2".
SIB	The IE shall be present if the 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	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.35 SYSTEM INFORMATION UPDATE FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Cause	М		9.2.1.6	_	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
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	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	M		9.2.2.59		_	
>Min UL Channelisation	M		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	M		UL SIR		_	
JOE SIK Target	141		9.2.1.67A			
>Diversity Mode	М		9.2.2.9		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>DPC Mode	0		9.2.2.13C		YES	reject
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.61	This IE may be present without the presence of the E-DPCH Information IE	YES	reject
DL DPCH Information		01			YES	reject
>TFCS	M		9.2.1.58	For DL	_	
>DL DPCH Slot Format	M		9.2.2.10		_	
>TFCI Signalling Mode	М		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		_	
>Power Offset		1			_	
Information						
>>PO1	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits	-	
>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>FDD TPC DL Step Size	M		9.2.2.16		_	
>Limited Power Increase	M		9.2.2.18A		_	
>Inner Loop DL PC Status	M		9.2.2.18B		_	
DCH Information	M		DCH FDD Information 9.2.2.4D		YES	reject
RL Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify

		ofRLs>				
>RL ID	M	011 (20)	9.2.1.53		_	
>C-ID	M		9.2.1.9		_	
>First RLS Indicator	М		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		_	
2 Divorsity Control Floid	NotFirstRL					
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		-	
>Initial DL Transmission Power	М		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 Information	0		9.2.1.53G		YES	ignore
>Delayed Activation	0		9.2.1.24C		YES	reject
>Primary CPICH Usage For Channel Estimation	0		9.2.2.33A		YES	ignore
>Secondary CPICH Information	0		Common Physical Channel ID 9.2.1.13		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH	0		9.2.2.39a		YES	ignore
Information						9
>Synchronisation Indicator	0		9.2.2.48A		YES	ignore
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	0		9.2.2.12B		YES	ignore
Information						green
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-	M		9.2.2.20C		_	
DPDCHs						
>Puncture Limit	M		9.2.1.50		_	
>E-TFCS Information	M		9.2.2.13Dh		_	
>E-TTI	M		9.2.2.13Di			

	1		0.0.0.405:			
>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	M		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	М		Power	This IE shall be	_	
			Offset	ignored by		
			9.2.2.29	Node B.		
>FDD TPC DL Step Size	М		9.2.2.16		1	
>Limited Power Increase	М		9.2.2.18A		1	
>Inner Loop DL PC Status	М		9.2.2.18B		-	
Initial DL DPCH Timing	0		9.2.2.18K		YES	ignore
Adjustment Allowed						
DCH Indicator For E-DCH-	0		9.2.2.4F		YES	reject
HSDPA Operation						

Condition	Explanation
CodeLen	The IE shall be present if <i>Min UL Channelisation Code Length</i> IE equals to 4.
NetFiretDI	
NotFirstRL	The IE shall be present if the RL is not the first one in the <i>RL Information</i> 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></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>UL Timeslot Information	М		9.2.3.26C		_	
>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot Information LCR	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.	YES	reject
>TDD TPC UL Step Size	0		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
DL CCTrCH Information		0 <maxno CCTrCH></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 CCTrCH></maxno 		List of uplink 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	M		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		_	

>>DL Timeslot	I M		9.2.3.4E		_	
Information			0.2.0.12			
>DL DPCH information LCR		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16	,	_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>DL Timeslot	M		9.2.3.40		_	
Information LCR						
>>TSTD Indicator	M		9.2.1.64		_	
>CCTrCH Initial DL	0		DL Power		YES	ignore
Transmission Power	_		9.2.1.21			
>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		120	ignore
DCH Information	0		DCH TDD		YES	reject
			Information			
DOOLL Into			9.2.3.4C DSCH TDD		YES	roinet
DSCH Information	0		Information		150	reject
			9.2.3.5A			
USCH Information	0		9.2.3.28		YES	reject
RL Information		1			YES	reject
>RL ID	M		9.2.1.53		_	
>C-ID	M		9.2.1.9		_	
>Frame Offset	M		9.2.1.31		_	
>Special Burst Scheduling	M		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 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.	YES	reject
>>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		-	
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

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PDSCH-RL-ID	0	RL ID	YES	ignore
		9.2.1.53		

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

FDD message 9.1.37.1

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	,
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		1 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	M		9.2.2.39		I	
>Received Total Wide Band Power	M		9.2.2.39A		I	
>CHOICE Diversity Indication	M				ı	
>>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

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	Semantics Description	Criticality	Assigned Criticality
			Reference	Becomption		Officiality
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	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. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		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.	YES	ignore
>RL ID	М		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

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	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
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></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>>Successful RL Information Response		0 <maxno ofRLs></maxno 		Note: There will never be maxnoofRLs repetitions of this sequence.	EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>RL Set ID	M		9.2.2.39		_	
>>>Received Total Wide Band Power	M		9.2.2.39A		_	
>>>CHOICE Diversity Indication	М				_	
>>>Combining					_	
>>>>RL ID	М		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	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	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
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	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
CHOICE Cause Level	M				YES	ignore
>General					_	
>>Cause	M		9.2.1.6		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.53		_	
>>>Cause	М		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	Semantics Description	Criticality	Assigned Criticality
Manager Distribution to a	M		Reference 9.2.1.45			
Message Discriminator	M		9.2.1.46		YES	reject
Message Type	M		9.2.1.40		163	reject
Transaction ID Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
Compressed Mode	0		9.2.2.3A		YES	reject
Deactivation Flag						
RL Information		1 <maxno ofRLs-1></maxno 			EACH	notify
>RL ID	М		9.2.1.53		_	
>C-ID	M		9.2.1.9		-	
>Frame Offset	M		9.2.1.31		-	
>Chip Offset	M		9.2.2.2		1	
>Diversity Control Field	M		9.2.1.25		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		-	
>Initial DL Transmission Power	0		DL Power 9.2.1.21	Initial power on DPCH or on F-DPCH	-	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	-	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	-	
>Not Used	0		NULL		_	
>Transmit Diversity Indicator	0		9.2.2.53		_	
>DL Reference Power	0		DL power 9.2.1.21	Power on DPCH or on F-DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>Delayed Activation	0		9.2.1.24C		YES	reject
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH Information	0		9.2.2.39a		YES	ignore
>Synchronisation Indicator	0		9.2.2.48A		YES	ignore
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.18K		YES	ignore
HS-DSCH Serving Cell Change Information	0		9.2.2.18Eb		YES	reject
Serving E-DCH RL	0		9.2.2.48B		YES	reject
Serving Cell Change CFN	0		CFN 9.2.1.7		YES	reject
E-DPCH Information		01	J.E. 1		YES	reject
>Maximum Set of E- DPDCHs	М		9.2.2.20C		_	
>Puncture Limit	M		9.2.1.50		ı	

>E-TFCS Information	M	9.2.2.13Dh	_	
>E-TTI	M	9.2.2.13Di	ı	
>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	M	9.2.2.13lh	_	
Threshold				
>HARQ Info for E-DCH	M	9.2.2.18ba	-	
>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	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH Information		0 <maxno CCTrCH></maxno 			GLOBAL	reject
>CCTrCH ID	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
DL CCTrCH Information		0 <maxno CCTrCH></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>DL DPCH information		01		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>DL Timeslot Information	М		9.2.3.4E		_	
>DL DPCH information LCR		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16	Ť	-	
>>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 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 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 Information		1			YES	reject
>RL ID	M		9.2.1.53			

>C-ID	ΙM		9.2.1.9		_	
>Frame Offset	M		9.2.1.31			
>Diversity Control Field	M		9.2.1.25		_	
>Initial DL Transmission	0		DL Power		_	
Power			9.2.1.21			
>Maximum DL Power	0		DL Power 9.2.1.21		_	
>Minimum DL Power	0		DL Power 9.2.1.21		_	
>DL Time Slot ISCP Info	0		9.2.3.4F	Applicable to 3.84Mcps TDD only	1	
>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.	YES	reject
>>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		_	
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.5F		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.53		YES	reject

Range Bound	Explanation
maxnoCCTrCH	Number of CCTrCH for one UE

Condition	Explanation
C-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

		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	М		9.2.1.18	The reserved value "All	YES	ignore
Context ID				CRNCCC" shall not be used.		
RL Information Response		1 <maxno ofRLs-1></maxno 			EACH	ignore
>RL ID	M		9.2.1.53		_	
>RL Set ID	M		9.2.2.39		_	
>Received Total Wide Band Power	М		9.2.2.39A		_	
>CHOICE Diversity	M				_	
Indication	101					
>>Combining					_	
>>>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	М		9.2.1.20C		_	
Response						
>>>E-DCH FDD	0		9.2.2.13Db		YES	ignore
Information Response						
>SSDT Support Indicator	М		9.2.2.46		_	
>DL Power Balancing	0		9.2.2.12C		YES	ignore
Activation Indicator						
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
>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	0		9.2.2.18Ec		YES	Ignore
Response						
E-DCH Serving Cell Change Information Response	0		9.2.2.18Ed		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	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		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	M		9.2.1.53		_	
>UL Time Slot ISCP Info	М		9.2.3.26D		_	
>UL PhysCH SF Variation	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	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.	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		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 Response	0		9.2.3.29		YES	ignore

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HS-DSCH Information	0	HS-DSCH	YES	ignore
Response		TDD		
Response		Information		
		Response		
		9.2.3.5G		

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	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 <maxno ofRLs-1></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>>Successful RL Information Response		0 <maxno ofRLs-2></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>RL ID	M		9.2.2.39		_	
>>> Received Total	M		9.2.2.39A		_	
Wide Band Power			0.2.2.0071			
>>>CHOICE Diversity	М				_	
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.53	Reference RL	_	
>>>>E-DCH FDD	0		9.2.2.13Db		YES	ignore
Information Response			0.2.2022		. =0	ignere
>>>Non Combining					_	
>>>>DCH Information Response	M		9.2.1.20C		-	
>>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>>SDT 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
UL DPCH Information		01			YES	reject
>UL Scrambling Code	0		9.2.2.59		_	
>UL SIR Target	0		UL SIR 9.2.1.67A		_	
>Min UL Channelistion Code Length	0		9.2.2.22		-	
>Max Number of UL DPDCHs	C- CodeLen		9.2.2.21		_	
>Puncture Limit	0		9.2.1.50	For UL	_	
>TFCS	0		9.2.1.58		_	
>UL DPCCH Slot Format	0		9.2.2.57		_	
>Diversity Mode	0		9.2.2.9		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>UL DPDCH Indicator For	0		9.2.2.61		YES	reject
E-DCH Operation						
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58		_	-
>DL DPCH Slot Format	0		9.2.2.10		_	
>TFCI Signalling Mode	0		9.2.2.50		_	
>TFCI Presence	C- SlotFormat		9.2.1.57		-	
>Multiplexing Position	0		9.2.2.23		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>Limited Power Increase	0		9.2.2.18A		_	
>DL DPCH Power Information		01			YES	reject
>>Power Offset Information		1			_	
>>>PO1	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	ı	
>>>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	M		9.2.2.16			
>>Inner Loop DL PC Status	М		9.2.2.18B		_	
DCHs To Modify	0		DCHs FDD To Modify 9.2.2.4E		YES	reject
DCHs To Add	0		DCH FDD Information		YES	reject

			9.2.2.4D			
DCHs To Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	M		9.2.1.20		_	
RL Information		0 <maxno ofRLs></maxno 			EACH	reject
>RL ID	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
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

>Maximum Set of E-	0		9.2.2.20C		_	
DPDCHs						
>Puncture Limit	0		9.2.1.50		_	
>E-TFCS Information	0		9.2.2.13Dh		_	
>E-TTI	0		9.2.2.13Di		_	
>E-DPCCH Power Offset	0		9.2.2.13Dj		_	
>E-RGCH 2-Index-Step	0		9.2.2.13lg		_	
Threshold						
>E-RGCH 3-Index-Step	0		9.2.2.13lh		-	
Threshold						
>HARQ Info for E-DCH	0		9.2.2.18ba		-	
>HS-DSCH Configured	0		9.2.2.18Ca		_	
Indicator						
E-DCH FDD Information	0		E-DCH		YES	reject
			FDD			-
			Information			
			9.2.2.13Da			
E-DCH FDD Information To	0		9.2.2.13Df		YES	reject
Modify						
E-DCH MAC-d Flows To Add	0		E-DCH		YES	reject
			MAC-d			
			Flows			
			Information			
			9.2.2.13M		VEO	
E-DCH MAC-d Flows To	0		9.2.2.13N		YES	reject
Delete	_					
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		
	<u> </u>		9.2.2.29	Node B		
>FDD TPC DL Step Size	M		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.18A		_	
>Inner Loop DL PC Status	M		9.2.2.18B		_	

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".
HSDSCHRadio 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.

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	М		9.2.1.62		_	-
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s></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></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	M		9.2.3.26C		_	
>>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>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 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	YES	reject
>>TDD TPC UL Step Size	0		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>RL ID	0		9.2.1.53		YES	ignore
UL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	0		9.2.1.58		_	
>TFCI Coding	0		9.2.3.22		_	
>Puncture Limit	0		9.2.1.50		_	
>UL DPCH To Modify Per RL		0 <maxno ofRLs></maxno 		See note 1 below	_	
>>UL 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 DDOLLOW	М		9.2.3.19A	<u> </u>	_	
>>>TDD DPCH Offset	M		9.2.3.19A 9.2.3.26C		_	
>>>UL Timeslot	IVI		9.2.3.200		_	
Information		0.4			\/50	
>>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		0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<>		Applicable to	_	
Information		ofULts>		3.84Mcps TDD		
			0.000	only		
>>>>Time Slot	M		9.2.3.23		_	
>>>Midamble Shift	0		9.2.3.7		_	
And Burst Type						
>>>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	M		9.2.3.5		_	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code						
>>>UL Timeslot		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
Information LCR		ofULtsLCR		1.28Mcps TDD		•
miermanen zen		>		only		
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>>Midamble Shift	0		9.2.3.7A			
LCR						
>>>TFCI Presence	0		9.2.1.57		_	
>>>UL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		OfDPCHL				
		CR>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD	0		9.2.3.19a		_	
Channelisation Code						
LCR						
>>>> TDD UL	0		9.2.3.21C		YES	reject
DPCH Time Slot						
Format LCR						
>>UL DPCH To Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofDPCHs>				
>>>DPCH ID	М		9.2.3.5		_	
>>UL DPCH To Add LCR		01		Applicable to	YES	reject
				1.28Mcps TDD		
	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		_	
>>>UL Timeslot	М		9.2.3.26E		_	
Information LCR						
>>UL SIR Target	0		UL SIR	Applicable to	YES	reject
			9.2.1.67A	1.28Mcps TDD		
TDD == 0 · · · · · · · · · · · · · · · · ·			0.0.0.04 -	only	VEC	ne:
>>TDD TPC UL Step Size	0		9.2.3.21a	Applicable to	YES	reject
				1.28Mcps TDD only		
>>RL ID	0		9.2.1.53	Jiny	YES	ignore
UL CCTrCH To Delete	-	0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
OL COTTON TO Delete		ofCCTrCH			0200/12	. 0,000
		s>				
>CCTrCH ID	М		9.2.3.3		_	
DL CCTrCH To Add		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofCCTrCH				•
		s>	ĺ			

	1	T				
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	М		9.2.1.58		1	
>TFCI Coding	М		9.2.3.22		I	
>Puncture Limit	М		9.2.1.50		-	
>TPC CCTrCH List		0 <maxno ofCCTrCH s></maxno 		List of uplink CCTrCH which provide TPC	1	
>>TPC CCTrCH ID	М		9.2.3.3		ı	
>DL DPCH To Add Per RL		0 <maxno ofRLs></maxno 		See Note 1 below	1	
>>DL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		1	
>>>Repetition Length	М		9.2.3.15		1	
>>>TDD DPCH Offset	М		9.2.3.19A		1	
>>>DL Timeslot Information	M		9.2.3.4E		1	
>>DL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		1	
>>>Repetition Length	M		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A			
>>>DL Timeslot Information LCR	M		9.2.3.40		_	
>>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	ianoro
Transmission Power			9.2.1.21		169	ignore
>>RL ID	0		9.2.1.53		YES	ignore
DL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	0		9.2.1.58		_	
>TFCI Coding	0		9.2.3.22		_	
>Puncture Limit	0		9.2.1.50		_	
>TPC CCTrCH List		0 <maxno ofCCTrCH s></maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		9.2.3.3		_	
>DL DPCH To Modify Per RL		0 <maxno ofRLs></maxno 		See Note 1 below	_	
>>DL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М	<u> </u>	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 Information		0 <maxno ofDLts></maxno 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.3.23	Orny	_	
>>>>Midamble Shift	0		9.2.3.7		_	
And Burst Type >>>>TFCI Presence	0		9.2.1.57		_	
>>>DL Code		0 <maxno< td=""><td>0.2.1.07</td><td></td><td>_</td><td></td></maxno<>	0.2.1.07		_	
Information		ofDPCHs>				
>>>>DPCH ID	M		9.2.3.5		_	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code						
>>>DL Timeslot Information LCR		0 <maxno ofDLtsLCR ></maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>>Midamble Shift LCR	0		9.2.3.7A			
>>>>TFCI Presence	0		9.2.1.57		_	
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofDPCHsL CR>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD Channelisation Code LCR	0		9.2.3.19a		_	
>>>>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 DPCH To Delete		0 <maxno ofDPCHs></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	M		9.2.3.16		_	
>>>Repetition Length	M		9.2.3.15		_	
>>>TDD DPCH Offset	M		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	0		DL Power		YES	ignore
Power to Modify >>RL ID	0		9.2.1.21 9.2.1.53		YES	ignore
DL CCTrCH To Delete		0 <maxno ofCCTrCH s></maxno 	3.2.1.03		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 Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.20		_	
DSCH To Modify		0 <maxno ofDSCHs></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		_	
>Allocation/Retention Priority	0		9.2.1.1A		_	
		1			1 1	
>Frame Handling Priority	0		9.2.1.30		_	
>Frame Handling Priority >ToAWS	0		9.2.1.30 9.2.1.61		_	
					- - -	
>ToAWS	0		9.2.1.61		- - -	
>ToAWS >ToAWE >Transport Bearer Request	0		9.2.1.61 9.2.1.60	Shall be ignored if bearer establishment with ALCAP.	- - - YES	ignore
>ToAWS >ToAWE >Transport Bearer Request Indicator	O O M		9.2.1.61 9.2.1.60 9.2.1.62A	ignored if bearer establishment	_ _ _	ignore ignore

			9.2.3.5A			
DSCH To Delete		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	M		9.2.3.5a		_	
USCH To Modify		0 <maxno ofUSCHs></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
>TNL QoS	0		9.2.1.58A		YES	ignore
USCH To Add	0		USCH Information 9.2.3.28		YES	reject
USCH To Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	M		9.2.3.27		_	
RL Information		0 <maxno ofRLs></maxno 		See Note 1 below	YES	reject
>RL ID	M		9.2.1.53		_	
>Maximum Downlink Power	0		DL Power 9.2.1.21		_	
>Minimum Downlink Power	0		DL Power 9.2.1.21		-	
>Initial DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	М		9.2.3.26H		_	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		_	
>DL Time Slot ISCP Info LCR	0		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	ignore
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	0	1	9.2.1.31H		YES	reject

Modify				
HS-DSCH MAC-d Flows To Add	0	HS-DSCH MAC-d Flows Information 9.2.1.31IA	YES	reject
HS-DSCH MAC-d Flows To Delete	0	9.2.1.31IB	YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink	9.2.1.31J	YES	reject
HS-PDSCH RL ID	0	RL ID 9.2.1.53	YES	reject
PDSCH-RL-ID	0	RL ID 9.2.1.53	YES	ignore

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
HSDSCHRadio 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
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD
maxnoofDPCHsLCR	Maximum number of DPCHs in one CCTrCH for 1.28Mcps 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
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
maxnoofULts	Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD
maxnoofRLs	Maximum number of RLs for one UE

9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	M		9.2.1.53		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2.3.5b	TDD only	YES	ignore
>USCH Information Response	0		9.2.3.29	TDD only	YES	ignore
>Not Used	0		NULL		_	
>DL Power Balancing Updated Indicator	0		9.2.2.12D		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

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></maxno 			EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>Cause	M		9.2.1.6		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE

9.1.45 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
CFN	M		9.2.1.7		YES	ignore
Active Pattern Sequence Information	0		9.2.2.A	FDD only	YES	ignore

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	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore

9.1.47 RADIO LINK RECONFIGURATION REQUEST

FDD Message 9.1.47.1

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	10,000
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the UL.	_	
>UL DPDCH Indicator For E-DCH Operation	0		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></maxno 			GLOBAL	reject
>DCH ID	M		9.2.1.20		_	
Radio Link Information		0 <maxno ofRLs></maxno 			EACH	reject
>RL ID	M		9.2.1.53		_	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	-	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	_	
>DL Code Information	C-SF/2		FDD DL Code Information 9.2.2.14A		-	
>DL Reference Power	0		DL Power 9.2.1.21	Power on DPCH or on F- DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH Information	0		9.2.2.39a		YES	ignore
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

LIO DOOLLISTS TO		1	0.04.04114	T	\/F0	
HS-DSCH Information To	0		9.2.1.31HA		YES	reject
Modify Unsynchronised HS-DSCH MAC-d Flows To	0		HS-DSCH		YES	
Add	O		MAC-d		YES	reject
Add			Flows			
			Information			
HS-DSCH MAC-d Flows To	0		9.2.1.31IA 9.2.1.31IB		YES	na:aa4
Delete			9.2.1.3116		TES	reject
HS-DSCH-RNTI	C-		9.2.1.31J		YES	reject
110-DOOH-KIVII	HSDSCH		9.2.1.313		120	reject
	RadioLink					
HS-PDSCH RL ID	O		RL ID		YES	reject
TIO I BOOT KE IB			9.2.1.53		120	10,000
E-DPCH Information		01	0.200		YES	reject
>Maximum Set of E-	0		9.2.2.20C		_	1 1
DPDCHs			0.2.2.20			
>Puncture Limit	0		9.2.1.50		_	
>E-TFCS Information	0		9.2.2.13Dh		_	
>E-TTI	0		9.2.2.13Di		_	
>E-DPCCH Power Offset	0		9.2.2.13Dj		_	
>E-RGCH 2-Index-Step	0		9.2.2.13lg		_	
Threshold			0.2.20.9			
>E-RGCH 3-Index-Step	0		9.2.2.13lh		_	
Threshold			0.2.2			
>HARQ Info for E-DCH	0		9.2.2.18ba		_	
>HS-DSCH Configured	0		9.2.2.18Ca			
Indicator			9.2.2.10Ca		_	
E-DCH FDD Information	0		E-DCH		YES	reject
			FDD		123	reject
			Information			
			9.2.2.13Da			
E-DCH FDD Information To	0		9.2.2.13Df		YES	reject
Modify						
E-DCH MAC-d Flows To Add	0		E-DCH		YES	reject
			FDD MAC-d			1
		1	Flows			
			Information			
			9.2.2.13M			
E-DCH MAC-d Flows To	0		9.2.2.13N		YES	reject
Delete						
Serving E-DCH RL	0		9.2.2.48B		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".
HSDSCHRadio Link	The IE shall be present if HS-PDSCH RL ID IE is present.

9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	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></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></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		-	
DL CCTrCH To Modify		0 <maxno ofCCTrCH s></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></maxno 		See note 1 below		
>>DL DPCH To Modify LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>DL Timeslot Information LCR		0 <maxno ofDLtsLCR ></maxno 			-	
>>>Time Slot LCR	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></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		-	
DCHs To Modify	0		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject

>DCH ID	М		9.2.1.20		_	
RL Information		0 <maxno ofRLs></maxno 		See note 1 below	YES	reject
>RL ID	M		9.2.1.53		_	
>Maximum Downlink Power	0		DL Power 9.2.1.21		ı	
>Minimum Downlink Power	0		DL Power 9.2.1.21		-	
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		_	
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.2.18D		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

Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofRLs are represented by separate ASN.1 structures with different criticality.

Range Bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofRLs	Maximum number of RLs for one UE
maxnoofMACdFlows	Maximum number of MAC-d Flows

Condition	Explanation
HSDSCHRadio Link	The IE shall be present if HS-PDSCH RL ID IE is present.

9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	M		9.2.1.53		_	
>DCH Information 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

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	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
RL Information		1 <maxno ofRLs></maxno 			EACH	notify
>RL ID	M		9.2.1.53		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE

9.1.50 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
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></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>DL Reference Power	М		DL power 9.2.1.21	Power on DPCH or on F-DPCH	-	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.20		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.B		YES	ignore
Adjustment Ratio	C- CommonO rIndividual		9.2.2.C		YES	ignore

Condition	Explanation
Common	The IE shall be present if the Adjustment Type IE is equal to "Common".
Individual	The IE shall be present if the Adjustment Type IE is equal to "Individual".
CommonOrIndividual	The IE shall be present if the Adjustment Type IE is equal to "Common"
	or "Individual".

Range Bound	Explanation
maxnoofRLs	Maximum number of Radio Links for a UE

9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	2 coonpaid.		
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 when the Report characteristics type is set to "On Demand".	YES	reject
Measurement ID	М		9.2.1.42	On Demand .	YES	reject
CHOICE Dedicated Measurement Object Type >RL	M		9.2.1.42		YES	reject
>>RL Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxno<>			EACH	reject
>>KE IIIIOIIIIatioii		ofRLs>			LACIT	reject
>>>RL ID	М	OTTLES	9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>PUSCH		0 <maxno< td=""><td>0.2.0.0</td><td>TDD only</td><td>GLOBAL</td><td>reject</td></maxno<>	0.2.0.0	TDD only	GLOBAL	reject
Information		ofPUSCHs >		,		15,000
>>>>PUSCH ID	М		9.2.3.12		_	
>>>HS-SICH Information		0 <maxno ofHSSICH s></maxno 		TDD only	GLOBAL	reject
>>>>HS-SICH ID	М		9.2.3.5Gb		_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			-	
>>>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	0		9.2.1.41		YES	reject
Coefficient						
Report Characteristics	M		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

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	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				See Note 1	_	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	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 ></maxno 		TDD only See note3	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	YES	reject
>>>Multiple Dedicated Measurement Value Information		0 <maxno ofDPCHsP erRL-1></maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.5		_	
>>>>Dedicated Measurement Value	М		9.2.1.24		_	
>>>Multiple Dedicated Measurement Value Information LCR		0 <maxno ofDPCHsL CRPerRL- 1></maxno 		Applicable to 1.28McpsTDD only	GLOBAL	ignore
>>>DPCH ID	M		9.2.3.5		_	
>>>>Dedicated Measurement Value	М		9.2.1.24		_	
>>>Multiple HS-SICH Measurement Value Information		0 <maxno ofHSSICH s -1></maxno 		TDD only	GLOBAL	ignore
>>>HS-SICH ID	М		9.2.3.5Gb			
>>>>Dedicated Measurement Value	М		9.2.1.24		_	
>RLS or ALL RLS				FDD only See Note 2	-	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	

>>>Dedicated	M	9.2.1	.24	_	
Measurement Value					
>>>CFN	0	9.2.1	7 Dedicated Measurement Time Reference	_	
Criticality Diagnostics	0	9.2.1	.17	YES	ignore
Measurement Recovery Support Indicator	0	9.2.1	.43C	YES	ignore

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

- 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	M		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	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Measurement ID	М		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type	M			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				See Note 1	_	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>Dedicated Measurement Value Information	M		9.2.1.24A		_	
>>>PUSCH Information		0 <maxno ofPUSCHs ></maxno 		TDD only See note3	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	YES	reject
>RLS or ALL RLS				FDD only See Note 2	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Dedicated Measurement Value Information	М		9.2.1.24A		_	
Measurement Recovery Reporting Indicator	0		9.2.1.43B		YES	ignore

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	М		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	M		9.2.1.42		YES	ignore

9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	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></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>RL Set				FDD only	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Cause	М		9.2.1.6		_	
>CCTrCH				TDD only	_	
>>RL ID	M		9.2.1.53		_	
>>CCTrCH List		1 <maxno ofCCTrCH s></maxno 			EACH	ignore
>>>CCTrCH ID	M		9.2.3.3		_	
>>>Cause	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	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 Reporting Object	М			Object for which the Restoration shall be reported.	YES	ignore
>RL				TDD only	_	
>>Radio Link Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>RL Set				FDD only	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>CCTrCH				TDD only	_	
>>RL ID	M		9.2.1.53		_	
>>CCTrCH List		1 <maxno ofCCTrCH s></maxno 			EACH	ignore
>>>CCTrCH ID	М		CCTrCH ID 9.2.3.3		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE
maxnoofRLSets	Maximum number of RL Sets for one UE
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE

9.1.60 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	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
Active Pattern Sequence Information	М		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	М		9.2.1.46		YES	ignore
Transaction ID	М		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	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
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	O		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		YES	reject
E-RGCH/E-HICH Code FDD Information	0		9.2.2.13la		YES	reject
HSDPA And E-DCH Cell Portion Information		0 <maxno ofCellPorti ons></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		_	
>HS-SCCH FDD Code Information	0		9.2.2.18G		_	
>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		
>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.	_	
>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

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	2000		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
SFN	0		9.2.1.53A		YES	reject
PDSCH Sets To Add		0 <maxno ofPDSCH Sets></maxno 			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		_	
>PDSCH To Add Information		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		_	
>>TDD Physical Channel Offset	M		9.2.3.20		_	
>>DL Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDLts>				
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift And Burst Type	M		9.2.3.7		_	
>>>TFCI Presence	М		9.2.1.57		_	
>>>DL Code		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofPDSCHs >				
>>>PDSCH ID	M		9.2.3.10		_	
>>>TDD Channelisation Code	M		9.2.3.19		_	
>PDSCH To Add Information LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15			
>>TDD Physical Channel Offset	M		9.2.3.20		_	
>>DL Timeslot Information LCR		1 <maxno ofDLtsLCR ></maxno 			-	
>>>Time Slot LCR	M		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>TFCI Presence	M		9.2.1.57		-	
>>>DL Code Information LCR		1 <maxno ofPDSCHs ></maxno 			-	
>>>>PDSCH ID	M		9.2.3.10		_	

>>>TDD	M		9.2.3.19a		_	
Channelisation Code						
LCR						
>>>> TDD DL DPCH	0		9.2.3.19D		YES	reject
Time Slot Format						•
LCR						
>>TSTD Indicator	0		9.2.1.64		YES	reject
		0 <maxno< td=""><td>9.2.1.04</td><td></td><td>GLOBAL</td><td></td></maxno<>	9.2.1.04		GLOBAL	
PDSCH Sets To Modify		of <iriaxiio< td=""><td></td><td></td><td>GLUBAL</td><td>reject</td></iriaxiio<>			GLUBAL	reject
		PDSCHSe				
		ts>				
>PDSCH Set ID	М	107	9.2.3.11		_	
	M		0.2.0.11	See note 1		
>CHOICE HCR or LCR	IVI				_	
				below		
>>3.84Mcps TDD					_	
>>>PDSCH To Modify		1			YES	reject
Information						
>>>Repetition	0		9.2.3.16			
Period						
>>>Repetition	0		9.2.3.15		_	
Length						
>>>TDD Physical	0		9.2.3.20	+	_	
1	~		0.2.0.20			
Channel Offset	1	0				
>>>DL Timeslot		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDLts>				
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble	0		9.2.3.7		_	<u></u>
Shift And Burst						
Type						
>>>>TFCI	0		9.2.1.57		_	
Presence						
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
		ofPDSCHs			_	
Information		>				
>>>>PDSCH	М		9.2.3.10		_	
ID						
>>>>TDD	М		9.2.3.19	+	_	
	'''		5.2.0.19			
Channelisation						
Code						
>>1.28Mcps TDD	1	1		+	- YES	roject
>>>PDSCH To Modify		'			IEO	reject
Information LCR			0.0.5.15	ļ		
>>>Repetition	0		9.2.3.16		-	
Period	1				ı	
					_	
>>>Repetition	0		9.2.3.15		_	
>>>Repetition	0		9.2.3.15		-	
>>>Repetition Length	0		9.2.3.15 9.2.3.20		-	
>>>>Repetition Length >>>>TDD Physical					-	
>>>>Repetition Length >>>>TDD Physical Channel Offset		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
>>>>Repetition Length >>>>TDD Physical Channel Offset		0 <maxno ofDLtsLCR</maxno 			-	
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR		ofDLtsLCR				
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot	0	ofDLtsLCR	9.2.3.20			
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot LCR	O	ofDLtsLCR	9.2.3.20 9.2.3.24A			
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot LCR >>>>Midamble	0	ofDLtsLCR	9.2.3.20		- - -	
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>>Time Slot LCR >>>>>Midamble Shift LCR	O M	ofDLtsLCR	9.2.3.24A 9.2.3.7A			
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot LCR >>>>>Midamble Shift LCR >>>>>TFCI	O	ofDLtsLCR	9.2.3.20 9.2.3.24A		- - - -	
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot LCR >>>>>Midamble Shift LCR >>>>>TFCI Presence	O M	ofDLtsLCR >	9.2.3.24A 9.2.3.7A		- - - -	
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot LCR >>>>>Midamble Shift LCR >>>>>TFCI Presence >>>>DL Code	O M	ofDLtsLCR >	9.2.3.24A 9.2.3.7A		- - - -	
>>>>Repetition Length >>>>TDD Physical Channel Offset >>>>DL Timeslot Information LCR >>>>Time Slot LCR >>>>>Midamble Shift LCR >>>>>TFCI Presence	O M	ofDLtsLCR >	9.2.3.24A 9.2.3.7A		- - - -	

	1		1	1	1	
>>>>PDSCH ID	М		9.2.3.10		_	
>>>>TDD	М		9.2.3.19a		_	
Channelisation Code LCR						
>>>>> TDD DL	0		9.2.3.19D		YES	reject
DPCH Time Slot Format LCR						,
PDSCH Sets To Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
T DOGIT GETS TO DETER		of PDSCHSe				,
>PDSCH Set ID	M	ts>	9.2.3.11		_	
PUSCH Sets To Add	141	0 <maxno< td=""><td>0.2.0.11</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	0.2.0.11		GLOBAL	reject
POSCH Sels TO Add		of PUSCHSe ts>			GEODAE	roject
>PUSCH Set ID	М		9.2.3.13		_	
>PUSCH To Add		01		Mandatory for	YES	reject
Information				3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.		
>>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		ofULts>				
>>>Time Slot	M		9.2.3.23		_	
>>>Midamble Shift	M		9.2.3.7		_	
And Burst Type						
>>>TFCI Presence	M		9.2.1.57		_	
>>>UL Code Information		1 <maxno ofPUSCHs ></maxno 			_	
>>>PUSCH ID	М		9.2.3.12		_	
>>>TDD	M		9.2.3.19		_	
Channelisation Code						
>PUSCH To Add Information LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD Physical Channel Offset	М		9.2.3.20		_	
>>UL Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofULtsLCR >				
>>>Time Slot LCR	M		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>TFCI Presence	M		9.2.1.57		_	
>>>UL Code Information LCR		1 <maxno ofPUSCHs LCR></maxno 			_	
>>>>PUSCH ID	M		9.2.3.12		_	
>>>TDD Channelisation Code LCR	М		9.2.3.19a		-	

>>>>TDD UL DPCH Time Slot Format LCR	0		9.2.3.21C		YES	reject
PUSCH Sets To Modify		0 <maxno< th=""><th></th><th></th><th>GLOBAL</th><th>reject</th></maxno<>			GLOBAL	reject
POSCH Sets to Mounty		of PUSCHSe ts>			GLOBAL	rojout
>PUSCH Set ID	M	132	9.2.3.13		_	
>CHOICE HCR or LCR	M		0.2.0110	See note 1 below	-	
>>3.84Mcps TDD					_	
>>>PUSCH To Modify		1			YES	reject
Information						
>>>Repetition	0		9.2.3.16		-	
Period			9.2.3.15			
>>>Repetition Length	0		9.2.3.15		_	
>>>>TDD Physical	0		9.2.3.20		_	
Channel Offset						
>>>>UL Timeslot		0 <maxno< td=""><td></td><td></td><td>_ </td><td></td></maxno<>			_	
Information		ofULts>				
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble	0		9.2.3.7		_	
Shift And Burst						
Type						
>>>>TFCI	0		9.2.1.57		_	
Presence						
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofPUSCHs >				
>>>>PUSCH ID	М		9.2.3.12		-	
>>>>TDD	М		9.2.3.19		_	
Channelisation						
Code						
>>1.28Mcps TDD					_	
>>>PUSCH To Modify		1			YES	reject
Information LCR	0		9.2.3.16		_	
>>>Repetition Period			3.2.3.10			
>>>Repetition	0		9.2.3.15		_	
Length			0.2.0.10			
>>>>TDD Physical	0		9.2.3.20		_	
Channel Offset			0.2.0.20			
>>>UL Timeslot		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofULtsLCR				
>>>>Time Slot	М		9.2.3.24A		_	
LCR						
>>>>Midamble Shift LCR	0		9.2.3.7A		_	
>>>>TFCI	0		9.2.1.57		_	
Presence						
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofPUSCHs LCR>				
>>>>PUSCH	М		9.2.3.12		_	
ID						

			•			
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		_	
>>>>TDD UL DPCH Time Slot Format LCR	0		9.2.3.21C		YES	reject
PUSCH Sets To Delete		0 <maxno ofPUSCH Sets></maxno 			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		_	
HS-PDSCH TDD		01			GLOBAL	reject
Information						
>DL Timeslot and Code		0 <maxno< td=""><td></td><td>Mandatory for</td><td>_</td><td></td></maxno<>		Mandatory for	_	
Information		ofDLts>		3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.		
>>Time Slot	M		9.2.3.23		_	
>>Midamble Shift And Burst Type	М		9.2.3.7		-	
>>Codes		1 <maxno ofHSPDS CHs></maxno 			_	
>>>TDD Channelisation Code	M		9.2.3.19		_	
>>HS-PDSCH and HS- SCCH Total Power	O		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		0 <maxno ofDLtsLCR ></maxno 		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	-	
>>Time Slot LCR	М		9.2.3.24a		_	
>>Midamble Shift LCR	М		9.2.3.7A		_	
>>Codes LCR		1 <maxno ofHSPDS CHs></maxno 			-	
>>>TDD Channelisation Code	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
Add to HS-SCCH Resource Pool		01			GLOBAL	reject
>HS-SCCH Information		0 <maxno ofHSSCC Hs></maxno 		Applicable to 3.84Mcps TDD only	_	
>>HS-SCCH ID	М		9.2.3.5Ga		_	
>>Time Slot	М		9.2.3.23			
>>Midamble Shift And	М		9.2.3.7		_	
Burst Type						

>>TDD Channelisation	M		9.2.3.19		_	
Code						
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		_	
>>HS-SICH Information		1			_	
>>>HS-SICH ID	М		9.2.3.5Gb		_	
>>>Time Slot	M		9.2.3.23		_	
>>>Midamble Shift	М		9.2.3.7		_	
And Burst Type						
>>>TDD	М		9.2.3.19		_	
Channelisation Code						
>HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
LCR		ofHSSCC Hs>		1.28Mcps TDD only		·
>>HS-SCCH ID	M		9.2.3.5Ga		_	
>>Time Slot LCR	М		9.2.3.24a		_	
>>Midamble Shift LCR	М		9.2.3.7A		_	
>>First TDD	М		TDD		_	
Channelisation Code			Channelisat ion Code 9.2.3.19			
>>Second TDD	М		TDD		_	
Channelisation Code			Channelisat			
Chambologuen Code			ion Code			
			9.2.3.19			
>>Maximum HS-SCCH	М		DL Power 9.2.1.21		_	
Power			9.2.1.21			
>>HS-SICH Information LCR		1			_	
>>>HS-SICH ID	М		9.2.3.5Gb		_	
>>>Time Slot LCR	М		9.2.3.24a		_	
>>>Midamble Shift	М		9.2.3.7A		_	
>>>TDD	М		9.2.3.19		_	
Channelisation Code		0.4			OL ODAL	:
Modify HS-SCCH		01			GLOBAL	reject
Resource Pool		0		A !! !-! - 4-		
>HS-SCCH Information		0 <maxno ofHSSCC Hs></maxno 		Applicable to 3.84Mcps TDD only	_	
>>HS-SCCH ID	М		9.2.3.5Ga		_	
>>Time Slot	0		9.2.3.23		_	
>>Midamble Shift And	0		9.2.3.7		_	
Burst Type						
>>TDD Channelisation	0		9.2.3.19		_	
Code						
>>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>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
LCR		ofHSSCC Hs>		1.28Mcps TDD only	3 	-,
>>HS-SCCH ID	М		9.2.3.5Ga	,	_	
>>Time Slot LCR	0	1	9.2.3.24a		_	

>>Midamble Shift LCR	0		9.2.3.7A	ı	
>>First TDD Channelisation Code	0		TDD Channelisat ion Code 9.2.3.19	1	
>>Second TDD Channelisation Code	0		TDD Channelisat ion Code 9.2.3.19		
>>Maximum HS-SCCH Power	0		DL Power 9.2.1.21	-	
>>HS-SICH Information LCR		01		1	
>>>HS-SICH ID	М		9.2.3.5Gb	_	
>>>Time Slot LCR	0		9.2.3.24a	_	
>>Midamble Shift LCR	0		9.2.3.7A	ı	
>>>TDD Channelisation Code	0		9.2.3.19	_	
Delete from HS-SCCH Resource Pool		0 <maxno of HSSCCHs ></maxno 		GLOBAL	reject
>HS-SCCH ID	M		9.2.3.5Ga	_	
Configuration Generation ID	0		9.2.1.16	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.

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

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	M		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Managara Disarirainatar	М		9.2.1.45		_	
Message Discriminator	M		9.2.1.46		YES	roinat
Message Type					150	reject
Transaction ID	M		9.2.1.62		_	
CHOICE Cause Level	M				YES	ignore
>General					_	
>>Cause	M		9.2.1.6		_	
>Set Specific				TDD Only	_	
>>Unsuccessful DL Shared Channel Set		0 <maxno ofPDSCH Sets></maxno 			EACH	ignore
>>>PDSCH Set ID	M		9.2.3.13		_	
>>>Cause	M		9.2.1.6		_	
>>Unsuccessful UL Shared Channel Set		0 <maxno ofPUSCH Sets></maxno 			EACH	ignore
>>>PUSCH Set ID	M		9.2.3.13		_	
>>>Cause	M		9.2.1.6		_	
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

9.1.65 RESET REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	

CHOICE Reset Indicator	М				YES	ignore
>Communication Context					-	
>>Communication Context Information		1 <maxco mmunicati onContext ></maxco 			EACH	reject
>>>CHOICE Communication Context Type	M				-	
>>>>CRNC Communication Context					_	
>>>>CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	-	
>>>Node B Communication Context					-	
>>>>Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	-	
>Communication Control Port					-	
>>Communication Control Port Information		1 <maxc CPinNode B></maxc 			EACH	reject
>>>Communication Control Port ID	М		9.2.1.15			
>Node B			NULL		_	

Range Bound	Explanation
maxCommunicationContext	Maximum number of Communication Contexts that can exist in the Node
	В
maxCCPinNodeB	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	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
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. 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.	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	М		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
RL Information		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	M		9.2.1.53		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE

9.1.69 INFORMATION EXCHANGE INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	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	М		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	М		9.2.1.62		_	J
Information Exchange ID	M		9.2.1.36C		YES	ignore
CHOICE Information Exchange Object Type	М				YES	ignore
>Cell					_	
>>Requested Data Value Information	M		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	M		9.2.1.6		YES	ignore

9.1.75 CELL SYNCHRONISATION INITIATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	-
C-ID	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	M		9.2.3.23		_	
Cell Sync Burst Transmission Initiation Information		01		Applicable to 3.84Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N	<u> </u>	_	
>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	M		9.2.3.4G		_	
>Cell Sync Burst Code Shift	M		9.2.3.4H		_	
>Synchronisation Report Type	M		9.2.3.18E		_	
>SFN	0		9.2.1.53A		_	
>Synchronisation Report Characteristics	М		9.2.3.18D		_	
SYNC_DL Code Transmission Initiation Information LCR		01		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	M		9.2.3.4N		_	
>SFN	M		9.2.1.53A		_	
>UARFCN	М		9.2.1.65		_	
>SYNC_DL Code ID	М		9.2.3.18B		_	
>DwPCH Power	М		9.2.3.5B		_	
SYNC_DL Code Measurement Initiation Information LCR		01		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>CSB Measurement ID	М		9.2.3.41	- ,	_	

>SFN	0	9.2.1.53A	_	
>UARFCN	M	9.2.1.65	_	
>SYNC_DL Code ID	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	М		9.2.1.9		YES	reject
Time Slot	M		9.2.3.23	Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it	YES	reject
Number Of Cycles Per SFN Period	М		9.2.3.7B		YES	reject
Number Of Repetitions Per Cycle Period	M		9.2.3.7C		YES	reject
Cell Sync Burst Transmission Reconfiguration Information		0 <maxno ofCellSync Bursts></maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N		_	
>Sync Frame Number To Transmit	M		Sync Frame Number 9.2.3.18C		-	
>Cell Sync Burst Code	0		9.2.3.4G		_	
>Cell Sync Burst Code Shift	0		9.2.3.4H		_	
>DL Transmission Power	0		DL Power 9.2.1.21		_	
Cell Sync Burst Measurement Reconfiguration Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>Cell Sync Burst Measurement Information		1 <maxno ofCellSync Bursts></maxno 			-	
>>Sync Frame Number To Receive	M		Sync Frame Number 9.2.3.18C		_	
>>Cell Sync Burst Information		1 <maxno ofreceptio nsperSync Frame></maxno 			-	
>>>CSB Measurement ID	M		9.2.3.41		_	
>>>Cell Sync Burst Code	М		9.2.3.4G		_	
>>>Cell Sync Burst Code Shift	М		9.2.3.4H		_	
>Synchronisation Report Type	0		9.2.3.18E		_	
>Synchronisation Report Characteristics	0		9.2.3.18D		_	
Number Of Subcycles Per Cycle Period	0		9.2.3.7D	Applicable to 1.28Mcps TDD only	YES	reject

SYNC_DL Code Transmission Reconfiguration Information LCR		0 <maxno ofSyncFra mesLCR></maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	M		9.2.3.4N		_	
>Sync Frame Number For Transmission	М		Sync Frame Number 9.2.3.18C		_	
>UARFCN	M		9.2.1.65		_	
>SYNC_DL Code ID	0		9.2.3.18B		_	
>DwPCH Power	0		9.2.3.5B		_	
SYNC_DL Code Measurement Reconfiguration Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>SYNC_DL Code Measurement Information LCR		1 <maxno ofSyncDL CodesLCR ></maxno 			-	
>>Sync Frame Number To Receive	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		-	
>Synchronisation Report Characteristics	0		9.2.3.18D		_	

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

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	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
Cell Synchronisation Information		1 <maxce IlinNodeB></maxce 			EACH	ignore
>C-ID	М		9.2.1.9		YES	ignore
>CHOICE Synchronisation Report Type	М				YES	ignore
>>Initial Phase or Steady- State Phase					_	
>>>Cell Sync Burst Measured Information		0 <maxno ofCellSync Bursts></maxno 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	_	
>>>SFN	M		9.2.1.53A		_	
>>>>Cell Sync Burst Information		1 <maxno ofreceptio nsperSync Frame></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	M		9.2.3.4K		-	
>>>> Cell Sync Burst Not Available			NULL		_	
>>>Accumulated Clock Update	0		Timing Adjustment Value 9.2.3.22a		-	
>>>SYNC_DL Codes Measured Information		0 <maxno ofSyncFra mesLCR></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	М		-	
>>>>SYNC_DL Code Available			_	
>>>>>SYNC_ DL Code ID Timing	M	Cell Sync Burst Timing LCR 9.2.3.4La	-	
>>>>SYNC_ DL Code ID SIR	M	Cell Sync Burst SIR 9.2.3.4K	_	
>>>>SYNC_DL Code Not Available		NULL	_	_
>>Late-Entrant Cell		NULL	_	
>>Frequency Acquisition		NULL	_	

Range Bound	Explanation
maxCellinNodeB	Maximum number of Cells in a Node B
maxnoofCellSyncBursts	Maximum number of cell synchronisation bursts per cycle for 3.84Mcps TDD
maxnoofreceptionsperSyncFrame	Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD
maxnoofSyncFramesLCR	Maximum number of SYNC Frames per measurement reporting period for 1.28Mcps TDD
maxnoofreceptionsperSyncFrameLCR	Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD

9.1.82 CELL SYNCHRONISATION TERMINATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
C-ID	M		9.2.1.9		YES	ignore
CSB Transmission ID	0		9.2.3.4N		YES	ignore
CSB Measurement ID	0		9.2.3.41		YES	ignore

9.1.83 CELL SYNCHRONISATION FAILURE INDICATION [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
C-ID	M		9.2.1.9		YES	ignore
CSB Transmission ID	0		9.2.3.4N		YES	ignore
CSB Measurement ID	0		9.2.3.41		YES	ignore
Cause	M		9.2.1.6		YES	ignore

9.1.84 CELL SYNCHRONISATION ADJUSTMENT REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			anu	Description		Criticality
			Reference			

D: : : .	М		9.2.1.45			
Message Discriminator					_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		ı	
Cell Adjustment		1 <maxce< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxce<>			EACH	ignore
Information		llinNodeB>				
>C-ID	M		9.2.1.9		_	
>Frame Adjustment Value	0		9.2.3.5C		_	
>Timing Adjustment Value	0		9.2.3.22a	Applicable to 3.84Mcps TDD only	_	
>DL Transmission Power	0		9.2.1.21	Applicable to 3.84Mcps TDD only	-	
>SFN	0		9.2.1.53A		_	
>DwPCH Power	0		9.2.3.5B	Applicable to 1.28Mcps TDD only	YES	ignore
>Timing Adjustment Value LCR	0		9.2.3.22b	Applicable to 1.28Mcps TDD only	YES	ignore

Range Bound	Explanation		
maxCellinNodeB	Maximum number of Cells in a Node B		

9.1.85 CELL SYNCHRONISATION ADJUSTMENT RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

9.1.86 CELL SYNCHRONISATION ADJUSTMENT FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
CHOICE Cause Level	M				YES	ignore
>General					_	
>>Cause	M		9.2.1.6		_	
>Cell Specific					_	
>>Unsuccessful Cell		1 <maxce< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxce<>			EACH	ignore
Information Response		llinNodeB>				
>>>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			
maxCellinNodeB	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></maxno 			GLOBAL	ignore
>DCH ID	M		9.2.1.20		_	
DSCHs To Re-arrange		0 <maxno ofDSCHs></maxno 		TDD only	GLOBAL	ignore
>DSCH ID	M		9.2.3.5a		_	
USCHs To Re-arrange		0 <maxno ofUSCHs></maxno 		TDD only	GLOBAL	ignore
>USCH ID	М		9.2.3.27		_	
HS-DSCHs MAC-d Flow To Re-arrange		0 <maxno ofMACdFl ows></maxno 			GLOBAL	ignore
>HS-DSCH MAC-d Flow ID	М		9.2.1.311			
E-DCHs MAC-d Flow To Rearrange		0 <maxno ofEDCHM ACdFlows ></maxno 		FDD only	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></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	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		YES	ignore
Delayed Activation Information		1 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>Delayed Activation Update	М		9.2.1.24D		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

9.1.89 RADIO LINK PARAMETER UPDATE INDICATION

9.1.89.1 FDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
HS-DSCH FDD Update Information	0		9.2.2.18Ea		YES	ignore
E-DCH FDD Update Information	0		9.2.2.13DA		YES	ignore

9.1.89.2 TDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	М		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	M		9.2.1.13		YES	ignore
Modification Period	0		9.2.1.47a	This IE shall be present in the very first message	YES	ignore
MICH CFN	M		9.2.1.46a		YES	ignore
NI Information		1 <maxno ofNIs></maxno 			GLOBAL	ignore
>NI	M		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	M		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-emtable)	

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,	
			l)	

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
			Reference	
Blocking Priority Indicator			ENUMERATED ("High" priority: Block resource
			High,	immediately.
			Normal,	"Normal" priority: Block
			Low,	resource when idle or upon
)	timer expiry.
				"Low" priority: Block resource
				when idle.

9.2.1.5A Burst Mode Parameters

The Burst Mode Parameters IE provides information to be applied for IPDL burst mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Burst Start	M		INTEGER (015)	See [10] and [21]
Burst Length	M		INTEGER (1025)	See [10] and [21]
Burst Freq	M		INTEGER (116)	See [10] and [21]

9.2.1.6 Cause

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cause Group	М			
>Radio Network Layer				
>>Radio Network Layer	М		ENUMERATED (
Cause			unknown C-ID,	
			Cell not available, Power level not supported,	
			DL radio resources not	
			available,	
			UL radio resources not	
			available,	
			RL Already	
			Activated/allocated,	
			Node B Resources	
			Unavailable,	
			Measurement not supported	
			for the object,	
			Combining Resources not available,	
			Requested configuration not	
			supported,	
			Synchronization failure,	
			Priority transport channel	
			established,	
			SIB Origination in Node B not	
			Supported,	
			Requested Tx Diversity Mode	
			not supported,	
			Unspecified, BCCH scheduling error,	
			Measurement Temporarily not	
			Available,	
			Invalid CM Setting,	
			Reconfiguration CFN not	
			elapsed,	
			Number of DL codes not	
			supported,	
			S-CPICH not supported,	
			Combining not supported, UL SF not supported,	
			DL SF not supported,	
			Common Transport Channel	
			Type not supported,	
			Dedicated Transport Channel	
			Type not supported,	
			Downlink Shared Channel	
			Type not supported,	
			Uplink Shared Channel Type	
			not supported, CM not supported,	
			Tx diversity no longer	
			supported,	
			Unknown Local Cell ID,	
			,	
			Number of UL codes not	
			supported,	
			Information temporarily not	
			available,	
			Information Provision not supported for the object,	
			Cell Synchronisation not	
			supported,	
			Cell Synchronisation	
			Adjustment not supported,	
			DPC Mode Change not	
			Supported,	

>Transport Layer		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)	
>>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	М	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).
Bearer Re-arrangement needed	The Node B cannot perform the requested Radio Link Reconfiguration
	without bearer re-arrangement.

Cell not Available	The concerned cell or local cell is not available.			
Cell Synchronisation not supported	The concerned cell of local cell is not available. The concernedcell(s) do not support Cell Synchronisation.			
Combining not supported	The Node B does not support RL combining for the concernedcells.			
Combining Resources Not Available	The value of the received <i>Diversity Control Field</i> IE was set to "Must",			
<u> </u>	but the Node B cannot perform the requested combining.			
CM not supported	The concerned cell(s) do not support Compressed Mode.			
Common Transport Channel Type not	The concerned cell(s) do not support the RACH and/or FACH Common			
supported	Transport Channel Type.			
Dedicated Transport Channel Type not	The concerned cell(s) do not support the Dedicated Transport Channel			
supported	Type.			
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs.			
DL Radio Resources not Available	The Node B does not have sufficient DL radio resources available.			
DL SF not supported DL Shared Channel Type not	The concerned cell(s) do not support the requested DL SF. The concerned cell(s) do not support the Downlink Shared Channel			
supported	Type.			
DPC Mode Change not Supported	The concerned cells do not support DPC mode changes.			
Frequency Acquisition not supported	The concerned cell(s) do not support Frequency Acquisition.			
F-DPCH not supported	The concerned cell(s) do not support the Fractional DPCH			
Information Provision not supported	The requested information provision is not supported for the concerned			
for the object	object types.			
Information temporarily not available	The requested information can temporarily not be provided.			
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings			
	invalid.			
IPDL already activated	The concerned cell(s) have already active IPDL ongoing.			
IPDL not supported	The concerned cell(s) do not support the IPDL.			
IPDL parameters not available	The concerned cell(s) do not have IPDL parameters defining IPDL to be			
Measurement not Supported For The	applied. At least one of the concerned cell(s) does not support the requested			
Object	measurement on the concerned object type.			
Measurement Temporarily not	The Node B can temporarily not provide the requested measurement			
Available	value.			
MICH not supported	The concerned cell does not support MICH.			
Modificaton Period not available	The Node B does not have modification period available.			
Node B resources unavailable	The Node B does not have sufficient resources available.			
Number of DL codes not supported	The concerned cell(s) do not support the requested number of DL codes.			
Number of UL codes not supported	The concerned cell(s) do not support the requested number of UL codes.			
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not			
D D 1	support.			
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of			
Priority transport channel established	the Node B. The CRNC cannot perform the requested blocking since a transport			
Priority transport channel established	channel with a high priority is present.			
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing.			
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a RADIO LINK			
	RECONFIGURATION COMMIT message was received previously,			
	but the concerned CFN has not yet elapsed.			
Requested Configuration not	The concerned cell(s) do not support the requested configuration i.e.			
Supported	power levels, Transport Formats, physical channel parameters.			
Requested Type of Bearer Re-	The Node B does not support the requested type of bearer re-			
arrangement not supported	arrangement.			
Requested Tx Diversity mode not	The concerned cell(s) do not support the requested transmit diversity			
supported RL already Activated/ allocated	mode. The Nede P has already allegated an DI with the requested DI id for			
NL ancauy Activated/ anocated	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			
	the concerned cell.			
	The Node B does not support the Signalling bearer re-arrangement.			
Signalling Bearer Re-arrangement not	THE NOUE D GOES HOL SUPPORT THE SIGNATURE DEALER TE-ARTAINSERIE.			
Signalling Bearer Re-arrangement not supported	The Node B does not support the Signathing bearer re-arrangement.			
Supported				

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></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 _{UTRAN-GPS} Measurement Accuracy Class				
>>T _{UTRAN-GPS} Measurement Accuracy Class	М		T _{UTRAN-GPS} Accuracy Class 9.2.1.64C	

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, UpPTS 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)	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles", 'DL Transmission Branch Load', "E-DCH Provided Bit Rate" are used by FDD only, 'UpPTS 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 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 Wide Band Power Value	M		INTEGER (0621)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD Only	_	
>>Acknowledged PRACH Preamble Value	M		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					-	
>>UTRAN GPS Timing Of Cell Frames for UE Positioning					-	
>>>T _{UTRAN-GPS} Measurement Value Information	M		9.2.1.64A		YES	ignore
>>SFN-SFN Observed Time Difference					_	
>>>SFN-SFN Measurement Value Information	М		9.2.1.53E		YES	ignore
>>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-PDSCH Or HS-SCCH Transmission"	YES	ignore
>>HS-DSCH Required Power						
>>>HS-DSCH Required Power	М		9.2.1.31lc		YES	ignore

Value Information						
>>HS-DSCH					_	
Provided Bit Rate						
>>>HS-DSCH	М		9.2.1.31lb		YES	ignore
	IVI		9.2.1.3110		ILS	ignore
Provided Bit Rate		1				
Value Information						
>>Transmitted				FDD Only	_	
Carrier Power For				,		
Cell Portion						
					01.0541	
>>>Transmitted		1<			GLOBAL	ignore
Carrier Power		maxNrO				
For Cell Portion		fCellPor				
Value		tions>				
>>>Cell	М	1101132	9.2.2.1Ca			
	IVI		9.2.2.1Ga		_	
Portion ID						
>>>>Transmitte	M		INTEGER	According to mapping	_	
d Carrier Power			(0100)	in [22]		
Value			(0100)	[22]		
>>Received Total		1		FDD Only	_	
Wide Band Power		1				
For Cell Portion		1				
>>>Received		1<			GLOBAL	ignore
					GLODAL	ignore
Total Wide Band		maxNrO				
Power For Cell		fCellPor				
Portion Value		tions>				
>>>Cell	М		9.2.2.1Ca		_	
Portion ID	'''	1	5.2.2.10a			
		1		+		
>>>Received	M		INTEGER	According to mapping	_	
Total Wide			(0621)	in [22]		
Band Power			`			
Value						
				EDD 0 1		
>>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						
					01.0541	
>>>Transmitted		1<			GLOBAL	ignore
Carrier Power Of		maxNrO				
All Codes Not		fCellPor				
Used For HS-		tions>				
		1101132				
PDSCH, HS-						
SCCH, E-AGCH,		1				
E-RGCH or E-]				
HICH]				
Transmission		1				
		1				
For Cell Portion						
Value						
>>>Cell	M	<u> </u>	9.2.2.1Ca		_	
Portion ID		1				
>>>Transmitte	М		INTEGER	According to mapping	_	
	IVI]			_	
d Carrier Power		1	(0100)	in [22]		
Of All Codes		1				
Not Used For]				
HS-PDSCH,]				
		1				
HS-SCCH, E-		1				
AGCH, E-		1				
RGCH or E-]				
HICH]				
Transmission		1				
		1				
Value		ļ				
>>UpPTS]		1.28Mcps TDD Only	_	
interference		1				
>>>UpPTS	М		INTEGER	According to mapping	YES	ignore
	IVI	1			TES	ignore
interference Value	<u> </u>	ļ	(0127,)	in [23]		

>>DL Transmission				FDD Only	_	
Branch Load				1 DD Only	_	
>>>NodeB DL	М		INTEGER	According to mapping	YES	ignore
Transmission	IVI		(0101,)	in [22]	123	ignore
Branch Load			(0101,)	" [22]		
Values >>HS-DSCH				EDD Oak		
				FDD Only	_	
Required Power						
For Cell Portion						
>>>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						
For Cell Portion						
>>>HS-DSCH		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Provided Bit Rate		NrOfCel			OLOD/ (L	ignore
For Cell Portion		<i>IPortion</i>				
Information		s>				
>>>Cell	M	3/	9.2.2.1Ca		_	
Portion ID	IVI		9.2.2.10a		_	
>>>HS-DSCH	M		9.2.1.31lb			
	IVI		9.2.1.3110		_	
Provided Bit						
Rate Value						
Information						
>>E-DCH Provided				FDD Only	_	
Bit Rate	ļ				\/ -	
>>>E-DCH	M		9.2.2.13S		YES	ignore
Provided Bit Rate						
Value Information						
>>E-DCH Non-				FDD Only	_	
serving Relative						
Grant Down						
Commands						
>>>E-DCH Non-	M		INTEGER	Down Commands per	YES	ignore
serving Relative			(0100,)	second		-
Grant Down			[
Commands Value						
Information						
momadon	1	1	I .	1	l .	

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 Availability Indicator	М			
>Measurement Available				
>>Common Measurement Value	М		9.2.1.12	
>Measurement Not Available			NULL	

9.2.1.13 Common Physical Channel ID

Common Physical Channel ID is the unique identifier for one common physical channel within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID			INTEGER (0255)	

9.2.1.13A Common Physical Channel Status Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID	M		9.2.1.13	
Resource Operational State	M		9.2.1.52	
Availability Status	M		9.2.1.2	

9.2.1.14 Common Transport Channel ID

Common Transport Channel ID is the unique identifier for one common transport channel within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID			INTEGER (0255)	

9.2.1.14A Common Transport Channel Information Response

The Common Transport Channel Information Response IE provides information for Common Transport Channels that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID	М		9.2.1.14	
Binding ID	0		9.2.1.4	
Transport Layer Address	0		9.2.1.63	

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
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)		_	
>Ddmode	М		ENUMERATED (TDD, FDD, Common,	"Common" = common to FDD and TDD.	-	
Triggering Message	0		ENUMERATED (initiating message, successful outcome, unsuccessful outcome, outcome, outcome)	The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication.	-	
Procedure Criticality	0		ENUMERATED (reject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure).	-	
Transaction ID	0		9.2.1.62		_	
Information Element Criticality Diagnostics		0 <max nooferro rs></max 			-	
>IE Criticality	M		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 Reference	Semantics Description
CRNC Communication Context ID			INTEGER (02^20 – 1)	"2^20-1" is a reserved value 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></maxno 		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL Cost 1	М		INTEGER (065535)	[FDD – This is the cost of a RLS.] [TDD – This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>DL Cost 2	М		INTEGER (065535)	[FDD – This is the cost of a RL.] [TDD – This is the cost of a DPCH/PDSCH/PUSCH]
>UL Cost 1	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
DCH Information Response		1 <maxno ofDCHs></maxno 		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	

Range Bound	Explanation		
maxnoofDCHs	Maximum number of DCH per UE		

9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.]

[TDD - If referred to a DPCH or PDSCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher. If referred to a SCCPCH, the *DL Power* IE specifies the maximum power of the SCCPCH.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350150)	Value = DL Power /10 Unit: dB Range: -35.0 +15.0 dB Step: 0.1dB

9.2.1.22 Dedicated Measurement Object Type

Void.

9.2.1.23 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
_		_	Reference	-
Dedicated Measurement Type			ENUMERATED ("RSCP" and "HS-SICH
			SIR,	reception quality" are used by
			SIR Error,	TDD only.
			Transmitted Code	"Rx Timing Deviation" is used
			Power,	by 3.84Mcps TDD only.
			RSCP,	"Rx Timing Deviation LCR",
			Rx Timing Deviation,	"Angle Of Arrival LCR" are
			Round Trip Time,	used by 1.28Mcps TDD only.
			,	"Round Trip Time", "SIR Error"
			Rx Timing Deviation	are used by FDD only.
			LCR,	'Best Cell Portions' is used by
			Angle Of Arrival	FDD only.
			LCR,	
			HS-SICH reception	
			quality,	
			Best Cell Portions)	

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

			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	YES	reject
>>>Best Cell Portions	М	9.2.2.1Ba		_	

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	M		INTEGER (0604799)	Time in seconds. This field indicates the baseline time for which the corrections are valid.
Status/Health	M		ENUMERATED (UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.1, no data, invalid data)	This field indicates the status of the differential corrections.
Satellite Information		1 <maxno Sat></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	М		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-σ) 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	M		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	М			
>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
CHOICE Delayed Activation	M			
Update				
>Activate				
>>CHOICE Activation Type	M			
>>>Synchronised				
>>>Activation CFN	M		CFN 9.2.1.7	
>>>Unsynchronised			NULL	
>>Initial DL TX Power	M		DL Power	
			9.2.1.21	
>>First RLS Indicator	0		9.2.2.16A	FDD Only
>>Propagation Delay	0		9.2.2.35	FDD Only
>Deactivate				
>>CHOICE Deactivation	M			
Type				
>>>Synchronised				
>>>Deactivation CFN	M		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.

Presence	Range	IE type and reference	Semantics description
		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,	Unit: ms
	Presence	Presence Range	reference ENUMERATED (20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 300, 400, 500, 750, 1000, 1250, 1500, 1750, 2000, 2500, 3000, 3500,

9.2.1.25 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Control Field			ENUMERATED (May, Must, Must Not,)	

9.2.1.26 Diversity Indication

Void.

9.2.1.26A DL DPCH Timing Adjustment

Void.

9.2.1.27 DSCH ID

Void.

9.2.1.27A DSCH Information Response

Void

9.2.1.28 DSCH Transport Format Set

Void.

9.2.1.29 DSCH Transport Format Combination Set

Void.

9.2.1.29A End Of Audit Sequence Indicator

Indicates if the AUDIT RESPONSE message ends an audit sequence or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
End Of Audit Sequence Indicator			ENUMERATED (End of audit sequence, Not end of audit sequence)	"End of audit sequence" = all audit information has been provided by the Node B. "Not end of audit sequence" = more audit information is available.

9.2.1.29B FN Reporting Indicator

The Frame Number Reporting Indicator indicates if the SFN or CFN shall be included together with the reported measurement value.

IE/Group Name	Presence	Range	IE Type and 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></maxno 		
>Transmission TOW	М		INTEGER (01048575)	Time of the Week when the message is broadcast.
>SatID	М		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].
>TLM Message	М		BIT STRING (14)	
>Tlm Revd (C)	М		BIT STRING (2)	
>HO-Word	М		BIT STRING (22)	
>WN	М		BIT STRING (10)	
>C/A or P on L2	М		BIT STRING (2)	
>User Range Accuracy Index	М		BIT STRING (4)	
>SV Health	М		BIT STRING (6)	
>IODC	М		BIT STRING (10)	
>L2 P Data Flag	М		BIT STRING (1)	
>SF 1 Reserved	М		BIT STRING (87)	
>T _{GD}	М		BIT STRING (8)	
>t _{oc}	М		BIT STRING (16)	
>af ₂	М		BIT STRING (8)	
>af₁	М		BIT STRING (16)	
>af ₀	М		BIT STRING (22)	
>C _{rs}	М		BIT STRING (16)	
>Δn	М		BIT STRING (16)	
>M ₀	М		BIT STRING (32)	
>C _{uc}	М		BIT STRING (16)	
>e	М		BIT STRING (32)	
>C _{us}	М		BIT STRING (16)	
>(A) ^{1/2}	М		BIT STRING (32)	
>t _{oe}	М		BIT STRING (16)	
>Fit Interval Flag	М		BIT STRING (1)	
>AODO	М		BIT STRING (5)	
>C _{ic}	М		BIT STRING (16)	
>OMEGA ₀	М		BIT STRING (32)	
>C _{is}	М		BIT STRING (16)	
>i ₀	М		BIT STRING (32)	
>C _{rc}	М		BIT STRING (16)	
>ω	М		BIT STRING (32)	
>OMEGAdot	М		BIT STRING (24)	
>ldot	М		BIT STRING (14)	
>Spare/zero fill	М		BIT STRING (20)	

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be provided

9.2.1.31C GPS Ionospheric Model

This IE provides the information regarding the GPS Ionospheric Model. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
α_0	M		BIT STRING (8)	
α_1	M		BIT STRING (8)	
α ₂	M		BIT STRING (8)	
α ₃	M		BIT STRING (8)	
βο	M		BIT STRING (8)	
β ₁	M		BIT STRING (8)	
β ₂	M		BIT STRING (8)	
β ₃	M		BIT STRING (8)	

9.2.1.31D GPS UTC Model

This IE provides the information regarding the GPS UTC Model. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range IE Type and		Semantics Description
			Reference	
A ₁	M		BIT STRING (24)	
A_0	M		BIT STRING (32)	
t _{ot}	M		BIT STRING (8)	
Δt_{LS}	M		BIT STRING (8)	
WN _t	М		BIT STRING (8)	
WN _{LSF}	M		BIT STRING (8)	
DN	М		BIT STRING (8)	
Δt_{LSF}	М		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></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_a	M		BIT STRING (8)	
Satellite Information	M	1 <maxno OfSatAlma nac></maxno 		See Note 1.
>DataID	M		INTEGER (03)	
>SatID	М		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 _{oa}	M		BIT STRING (8)	
>δi	M		BIT STRING (16)	
>OMEGADOT	M		BIT STRING (16)	
>SV Health	M		BIT STRING (8)	
>A ^{1/2}	M		BIT STRING (24)	
>OMEGA ₀	M		BIT STRING (24)	
>M ₀	M		BIT STRING (24)	
>ω	М		BIT STRING (24)	
>af ₀	M		BIT STRING (11)	
>af ₁	М		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 ²³ -1)	The IE value (N) is derived by this formula: N≤2 ²³ X /90 < N+1 X being the latitude in degree (0° 90°)
Degrees of Longitude	M		INTEGER (-2 ²³ 2 ²³ -1)	The IE value (N) is derived by this formula: N≤2 ²⁴ X /360 < N+1 X being the longitude in degree (-180°+180°)
Direction of Altitude	М		ENUMERATED (Height, Depth)	
Altitude	M		INTEGER (02 ¹⁵ -1)	The relation between the value (N) and the altitude (a) in meters it describes is N≤ a <n+1, except="" for="" n="2<sup">15-1 for which the range is extended to include all greater values of (a).</n+1,>

9.2.1.31Ga HSDPA Capability

This parameter defines the HSDPA capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HSDPA Capability			ENUMERATED (HSDPA Capable, HSDPA non Capable)	

9.2.1.31H HS-DSCH Information To Modify

The *HS-DSCH Information To Modify* IE is used for modification of HS-DSCH information in a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFl ows></maxno 			_	
>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.	_	
Priority Queue Information		0 <maxno ofPrioQue ues></maxno 			_	
>CHOICE Priority Queue	M				_	
>>Add Priority Queue					_	
>>>Priority Queue ID	M		9.2.1.49C		_	
>>>Associated HS- DSCH MAC-d Flow	М		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	M		9.2.1.53H		_	
>>>T1	М		9.2.1.56a		_	
>>>Discard Timer	0		9.2.1.24E		_	
>>>MAC-hs Window Size	М		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	М		9.2.1.531		_	
>>>>MAC-d PDU Size	M		9.2.1.38A		_	
>>>RLC Mode	M		9.2.1.52B		_	
>>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 Indicator	0		9.2.1.53H		_	
>>>T1	0		9.2.1.56a		_	

Size	>>>Discard Timer	0		9.2.1.24E		_	
Size							
Bit Rate	Size			3.2.1.30D			
Symbol		0		9.2.1.38Aa		_	
Index							
DUIndexes DUIndexes DUIndexes Substitution						-	
No.	Index						
>>>>SID M 9.2.1.53I — >>>>MAC-d PDU Size M 9.2.1.38A — >>Delete Priority Queue — — >>>Priority Queue ID M 9.2.1.49C Shall only refer to a Priority Queue already existing in the old configuration. MAC-hs Reordering Buffer Size for RLC-UM O 9.2.1.38Ab — CQI Feedback Cycle k O 9.2.2.21B For FDD only — CQI Repetition Factor O 9.2.2.4Cb For FDD only — ACK-NACK Repetition Factor O 9.2.2.4 For FDD only — ACK-NACK Repetition Factor O 9.2.2.4 For FDD only — ACK-NACK Repetition Factor O 9.2.2.4 For FDD only — ACK-PNACK Repetition Factor O 9.2.2.4 For FDD only — ACK-NACK Repetition Factor O 9.2.2.2 For FDD only — ACK-Power Offset O 9.2.2.2 For FDD only — HS-SCCH Power Offset O 9.2.2.18I For FDD only —			DUindexes				
>>> Delete Priority Queue 9.2.1.38A - >>> Delete Priority Queue ID M 9.2.1.49C Shall only refer to a Priority Queue already existing in the old configuration. MAC-hs Reordering Buffer Size for RLC-UM O 9.2.1.38Ab - CQI Feedback Cycle k O 9.2.2.21B For FDD only - CQI Repetition Factor O 9.2.2.4Cb For FDD only - ACK-NACK Repetition Factor O 9.2.2.4Cb For FDD only - ACK Power Offset O 9.2.2.4Ca For FDD only - ACK Power Offset O 9.2.2.25a For FDD only - ACK Power Offset O 9.2.2.23a For FDD only - NACK Power Offset O 9.2.2.23a For FDD only - HS-SCCH Power Offset O 9.2.2.18I For FDD only - HS-SCCH Code Change Grant O 9.2.1.31L - - TDD ACK NACK Power Offset O 9.2.2.18a For FDD only - HARQ Preamble Mode O 9.2.2.18a			>				
>>Delete Priority Queue 9.2.1.49C Shall only refer to a Priority Queue already existing in the old configuration. - MAC-hs Reordering Buffer Size for RLC-UM 0 9.2.1.38Ab - CQI Feedback Cycle k 0 9.2.2.21B For FDD only - CQI Repetition Factor 0 9.2.2.4Cb For FDD only - ACK-NACK Repetition Factor 0 9.2.2.4C For FDD only - CQI Power Offset 0 9.2.2.4C For FDD only - ACK-NACK Repetition Factor 0 9.2.2.4C For FDD only - CQI Power Offset 0 9.2.2.4C For FDD only - ACK Power Offset 0 9.2.2.18 For FDD only - NACK Power Offset 0 9.2.2.18 For FDD only - HS-SCCH Code Change Grant 0 9.2.1.31L - - TDD ACK NACK Power Offset 0 9.2.2.18a For FDD only - HARQ Preamble Mode 0 9.2.2.18a For FDD only YES ignore						_	
S>>Priority Queue ID M 9.2.1.49C Shall only refer to a Priority Queue already existing in the old configuration. -		M		9.2.1.38A		-	
to a Priority Queue already existing in the old configuration.						-	
MAC-hs Reordering Buffer Size for RLC-UM OUIT Feedback Cycle k OUI	>>>Priority Queue ID	M		9.2.1.49C		_	
Resisting in the old configuration. Resisting in the old configuration. Resize for RLC-UM P.2.1.38Ab P.							
MAC-hs Reordering Buffer Size for RLC-UM Size for RDD only Size for FDD only S							
MAC-hs Reordering Buffer Size for RLC-UM S							
MAC-hs Reordering Buffer Size for RLC-UM O 9.2.1.38Ab — CQI Feedback Cycle k O 9.2.2.21B For FDD only — CQI Repetition Factor O 9.2.2.4Cb For FDD only — ACK-NACK Repetition Factor O 9.2.2.4C For FDD only — CQI Power Offset O 9.2.2.4Ca For FDD only — ACK Power Offset O 9.2.2.b For FDD only — NACK Power Offset O 9.2.2.23a For FDD only — HS-SCCH Power Offset O 9.2.2.18I For FDD only — Measurement Power Offset O 9.2.2.21C For FDD only — HS-SCCH Code Change Grant O 9.2.1.31L — — TDD ACK NACK Power Offset O 9.2.3.18F For FDD only — HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore HS-SICH SIR Target O UL SIR 9.2.1.67A Applicable to 1.28Mcps TDD only YES Ignore <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>							
Size for RLC-UM 9.2.2.21B For FDD only - CQI Feedback Cycle k 0 9.2.2.24Cb For FDD only - CQI Repetition Factor 0 9.2.2.4Cb For FDD only - ACK-NACK Repetition Factor 0 9.2.2.a For FDD only - CQI Power Offset 0 9.2.2.4Ca For FDD only - ACK Power Offset 0 9.2.2.2b For FDD only - NACK Power Offset 0 9.2.2.23a For FDD only - HS-SCCH Power Offset 0 9.2.2.18i For FDD only - Measurement Power Offset 0 9.2.2.21C For FDD only - HS-SCCH Code Change 0 9.2.1.31L - - Grant 0 9.2.3.18F For FDD only - TDD ACK NACK Power 0 9.2.2.18a For FDD only - HS-SICH SIR Target 0 UL SIR Applicable to YES ignore UE Capabilities Information - - <					configuration.		
CQI Feedback Cycle k O 9.2.2.21B For FDD only — CQI Repetition Factor O 9.2.2.4Cb For FDD only — ACK-NACK Repetition Factor O 9.2.2.a For FDD only — CQI Power Offset O 9.2.2.4Ca For FDD only — ACK Power Offset O 9.2.2.b For FDD only — NACK Power Offset O 9.2.2.23a For FDD only — HS-SCCH Power Offset O 9.2.2.18I For FDD only — Measurement Power Offset O 9.2.2.21C For FDD only — HS-SCCH Code Change O 9.2.1.31L — — Grant O 9.2.3.18F For FDD only — TDD ACK NACK Power O 9.2.2.18a For FDD only — HS-SICH SIR Target O UL SIR Applicable to YES ignore UE Capabilities Information — — — — — SHS-DSCH Physical Layer Category O		0		9.2.1.38Ab		_	
CQI Repetition Factor O 9.2.2.4Cb For FDD only — ACK-NACK Repetition Factor O 9.2.2.a For FDD only — CQI Power Offset O 9.2.2.4Ca For FDD only — ACK Power Offset O 9.2.2.b For FDD only — NACK Power Offset O 9.2.2.23a For FDD only — HS-SCCH Power Offset O 9.2.2.18l For FDD only — Measurement Power Offset O 9.2.2.18l For FDD only — HS-SCCH Code Change Grant O 9.2.3.18F For TDD only — TDD ACK NACK Power Offset O 9.2.3.18F For FDD only — HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore HS-SICH SIR Target O UL SIR 9.2.1.67A Applicable to 1.28Mcps TDD only YES ignore VECapabilities Information — — — — >HS-DSCH Physical Layer Category O 9.2.1.31la YES							
ACK-NACK Repetition Factor O 9.2.2.a For FDD only – CQI Power Offset O 9.2.2.4Ca For FDD only – ACK Power Offset O 9.2.2.b For FDD only – NACK Power Offset O 9.2.2.23a For FDD only – HS-SCCH Power Offset O 9.2.2.18l For FDD only – Measurement Power Offset O 9.2.2.21C For FDD only – HS-SCCH Code Change Grant O 9.2.1.31L – – TDD ACK NACK Power Offset O 9.2.3.18F For TDD only – HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore HS-SICH SIR Target O UL SIR Applicable to YES ignore UE Capabilities Information – – – – >HS-DSCH Physical Layer Category O 9.2.1.31la YES Ignore						_	
CQI Power Offset O 9.2.2.4Ca For FDD only — ACK Power Offset O 9.2.2.b For FDD only — NACK Power Offset O 9.2.2.23a For FDD only — HS-SCCH Power Offset O 9.2.2.21C For FDD only — Measurement Power Offset O 9.2.2.21C For FDD only — HS-SCCH Code Change Grant O 9.2.1.31L — — TDD ACK NACK Power Offset O 9.2.3.18F For TDD only — HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore HS-SICH SIR Target O UL SIR Applicable to 9.2.1.67A 1.28Mcps TDD only YES ignore UE Capabilities Information Category — — — — — —						_	
ACK Power Offset O 9.2.2.b For FDD only – NACK Power Offset O 9.2.2.23a For FDD only – HS-SCCH Power Offset O 9.2.2.18l For FDD only – Measurement Power Offset O 9.2.2.21C For FDD only – HS-SCCH Code Change Grant O 9.2.1.31L – TDD ACK NACK Power Offset O 9.2.3.18F For TDD only – HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore HS-SICH SIR Target O UL SIR Applicable to 9.2.1.67A YES ignore UE Capabilities Information Category O 9.2.1.31la YES Ignore						-	
NACK Power Offset O 9.2.2.23a For FDD only — HS-SCCH Power Offset O 9.2.2.18l For FDD only — Measurement Power Offset O 9.2.2.21C For FDD only — HS-SCCH Code Change Grant O 9.2.1.31L — TDD ACK NACK Power Offset O 9.2.3.18F For TDD only — HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore HS-SICH SIR Target O UL SIR Applicable to 1.28Mcps TDD only YES ignore UE Capabilities Information — — — — >HS-DSCH Physical Layer Category O 9.2.1.31la YES Ignore						_	
HS-SCCH Power Offset						-	
Measurement Power Offset	NACK Power Offset			9.2.2.23a			
HS-SCCH Code Change O 9.2.1.31L -	HS-SCCH Power Offset			9.2.2.181		_	
HS-SCCH Code Change O 9.2.1.31L - -				9.2.2.21C	For FDD only	-	
TDD ACK NACK Power Offset 9.2.3.18F For TDD only — Section 1.28Mcps TDD only PES ignore Offset Physical Layer Category 9.2.1.31la Por TDD only PES ignore P.2.1.31la Por TDD only PES ignore P.2.1.31la P.2.1.31la P.3.1.31la P.3.1.31l	HS-SCCH Code Change	0		9.2.1.31L		_	
Offset HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore UL SIR 9.2.1.67A 1.28Mcps TDD only UE Capabilities Information >HS-DSCH Physical Layer Category O 9.2.1.31la YES Ignore YES Ignore							
HARQ Preamble Mode O 9.2.2.18a For FDD only YES ignore UL SIR 9.2.1.67A Applicable to 1.28Mcps TDD only UE Capabilities Information >HS-DSCH Physical Layer Category O 9.2.1.31la For FDD only YES ignore YES Ignore		0		9.2.3.18F	For TDD only	_	
HS-SICH SIR Target O UL SIR 9.2.1.67A Applicable to 1.28Mcps TDD only UE Capabilities Information >HS-DSCH Physical Layer Category O 9.2.1.31la YES ignore Ignore	Offset						
UE Capabilities Information 9.2.1.67A 1.28Mcps TDD only >HS-DSCH Physical Layer Category 0 9.2.1.31la YES Ignore	HARQ Preamble Mode	0		9.2.2.18a		YES	ignore
UE Capabilities Information 9.2.1.67A 1.28Mcps TDD only >HS-DSCH Physical Layer Category 0 9.2.1.31la YES Ignore	HS-SICH SIR Target	0		UL SIR	Applicable to	YES	ignore
UE Capabilities Information Only >HS-DSCH Physical Layer Category O 9.2.1.31la YES Ignore				9.2.1.67A	1.28Mcps TDD		
>HS-DSCH Physical Layer O 9.2.1.31la YES Ignore Category							
Category						_	
	>HS-DSCH Physical Layer	0		9.2.1.31la		YES	Ignore
	Category						
TO GIOTI TO GIOP GIZO O 191016	HS-SICH TPC step size	0		9.2.3.21a	Applicable to	YES	ignore
1.28Mcps TDD	·						
only					only		

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	Semantics	Criticality	Assigned
127 Group Humo	110001100		and Reference	Description		Criticality
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFl ows></maxno 			-	
>HS-DSCH MAC-d Flow ID	М		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.	_	
Priority Queue Information		0 <maxno ofPrioQue ues></maxno 			_	
>Priority Queue ID	M		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						
>HS-DSCH Physical Layer Category	0		9.2.1.31la		YES	Ignore
HS-SICH TPC step size	0		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	ignore

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
HS-DSCH Initial Capacity Allocation		1 <maxno ofPrioQue ues></maxno 		
>Scheduling Priority Indicator	М		9.2.1.53H	
>Maximum MAC-d PDU Size	М		MAC-d PDU Size 9.2.1.38A	
>HS-DSCH Initial Window Size	М		9.2.1.31Hb	

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 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

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
HS-DSCH MAC-d Flow Specific Information		1 <maxno ofMACdFl ows></maxno 		
>HS-DSCH MAC-d Flow ID	М		9.2.1.311	
>Allocation/Retention Priority	M		9.2.1.1A	
>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.
Priority Queue Information		1 <maxno ofPrioQue ues></maxno 		
>Priority Queue ID	M		9.2.1.49C	
>Associated HS-DSCH MAC-d Flow	М		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	M		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	
>>MAC-d PDU Size	М		9.2.1.38A	
>RLC Mode	М		9.2.1.52B	

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofPrioQueues	Maximum number of Priority Queues
maxnoofMACdPDUindexes	Maximum number of different MAC-d PDU SIDs

9.2.1.31IB HS-DSCH MAC-d Flows To Delete

The *HS-DSCH MAC-d Flows To Delete* IE is used for the removal of HS-DSCH MAC-d flows from a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flows To Delete		1 <maxno ofMACdFl ows></maxno 		
>HS-DSCH MAC-d Flow ID	М		9.2.1.311	

Range Bound	Explanation		
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows		

9.2.1.31la 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			INTEGER	Expressed in bit/s.
Value			(02^24-1,)	

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></maxno 		
>Scheduling Priority Indicator	М		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			INTEGER (01000)	Expressed in thousandths of
Value				the max transmission power

9.2.1.31Ic HS-DSCH Required Power Value Information

The *HS-DSCH Required Power Value Information* IE reports the *HS-DSCH Required Power Value* IE for each priority class. For each priority class, a list of UEs, identified by the *CRNC Communication Context* IEs, requiring a particularly high amount of power to meet the Guaranteed Bit Rate for their established HS-DSCH connections may be included. Additionally, the *HS-DSCH Required Power Per UE Weight* IE may be included for each of those UEs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Required Power Value Information		1 <maxno ofPriorityCl asses></maxno 		
>Scheduling Priority Indicator	M		9.2.1.53H	
>HS-DSCH Required Power Value	М		9.2.1.31lba	
>HS-DSCH Required Power Per UE Information		0 <maxno ofContexts onUeList></maxno 		List of UEs with Guaranteed Bit Rate indicating their required power consumption relative to the HS-DSCH Required Power Value.
>>CRNC Communication Context ID	M		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)	

9.2.1.32 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
В Туре			ENUMERATED (
71 -			MIB,	
			SB1,	
			SB2,	
			SIB1,	
			SIB2,	
			SIB3,	
			SIB4,	
			SIB5,	
			SIB6,	
			SIB7,	
			SIB8,	
			SIB9,	
			SIB10,	
			SIB11,	
			SIB12,	
			SIB13,	
			SIB13.1,	
			SIB13.2,	
			SIB13.3,	
			SIB13.4,	
			SIB14,	
			SIB15,	
			SIB15.1,	
			SIB15.2,	
			SIB15.3,	
			SIB16,	
			,	
			SIB17,	
			SIB15.4,	
			SIB18,	
			SIB15.5,	
			SIB5bis,	
			SIB11bis)	

9.2.1.36 Indication Type

Void.

9.2.1.36A Information Exchange Object Type

Void.

9.2.1.36B Information Report Characteristics

The information report characteristics defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Report Characteristics Type	М			
>On Demand >Periodic			NULL	
>>CHOICE Information Report Periodicity Scale	М			The frequency with which the Node B shall send information reports.
>>>minute				
>>>Report Periodicity Value	М		INTEGER (160,)	Unit: min
>>>hour				
>>>Report Periodicity Value	М		INTEGER (124,)	Unit: h
>On Modification				
>>Information Threshold	0		9.2.1.36E	

9.2.1.36C Information Exchange ID

The Information Exchange ID uniquely identifies any requested information per Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Information Exchange ID	М		INTEGER (02^20-1)	

9.2.1.36D Information Type

The Information Type indicates which kind of information the Node B shall provide.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Information Type Item	М		ENUMERATED (GPS Information, DGPS Corrections, GPS RX Pos,)	
GPS Information	C-GPS	0 <maxno GPSItems ></maxno 		
>GPS Information Item			ENUMERATED (GPS Navigation Model & Time Recovery, GPS Ionospheric Model, GPS UTC Model, GPS Almanac, GPS Real-Time Integrity,)	

Condition	Explanation
GPS	The IE shall be present if the <i>Information Type Item</i> IE indicates "GPS"
	Information".

Range Bound	Explanation
maxNoGPSItems	Maximum number of GPS Information Items supported in one
	Information Exchange

9.2.1.36E Information Threshold

The Information Threshold indicates which kind of information shall trigger the Information Reporting procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Type	M			
Item				
>DGPS				
>>PRC Deviation	M		ENUMERATED	PRC deviation in meters from
			(1, 2, 5, 10,)	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,)	

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).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Guaranteed Bit Rate			INTEGER (02^24-1,)	Unit: bit/s

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.

9.2.1.38B 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 Reference	Semantics Description
MAC-hs Window Size			ENUMERATED (4,	
			6, 8, 12, 16, 24,	
			32,)	

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. 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	M		INTEGER	Unit: ms
Time Value			(16000,)	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	М		INTEGER	Unit: ms
Time Value			(16000,)	Range: 1060000 ms Step: 10 ms

9.2.1.42 Measurement ID

The Measurement ID uniquely identifies any measurement per (Node B or Communication) Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			INTEGER	
			(02^20-1)	

9.2.1.43 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Increase/Decrease Threshold	М				-	
>Received Total Wide Band Power					_	
>>Received Total Wide Band Power	М		INTEGER (0620)	Unit: dB Range: 062 dB Step: 0.1 dB	-	
>Transmitted Carrier Power					_	
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD only	_	
>>Acknowledged PRACH Preambles	М		INTEGER (0240,)	According to mapping in [22]	_	
>UL Timeslot ISCP			IN ITE OF D	TDD only	_	
>>UL Timeslot ISCP	М		INTEGER (0126)	Unit: dB Range: 063 dB Step: 0.5 dB	_	
>SIR					_	
>>SIR	M		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	М		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					_	
>>Transmitted Carrier Power Of All Codes Not Used For					_	
HSTransmission						
>>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission	M		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

>>Transmitted Carrier Power For Cell Portion			and mapping in [23], measurement 'Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS-SCCH Transmission" FDD only	_	
>>>Transmitted Carrier Power For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power measurement in [22]	YES	reject
>>Received Total Wide Band Power For Cell Portion			FDD only	-	
>>>Received Total Wide Band Power For Cell Portion	M	INTEGER (0620)	Unit: dB Range: 062 dB Step: 0.1 dB	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, E-RGCH or E-HICH Transmission For Cell Portion			FDD only	-	
>>>Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- HICH Transmission For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission measurement in [22]	YES	reject
>>UpPTS interference			1.28Mcps TDD Only	_	
>>>UpPTS interference Value	M	INTEGER (0127,)	According to mapping in [23]	YES	reject

9.2.1.43A Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Behavior			NULL	

9.2.1.43B Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Reporting Indicator			NULL	

9.2.1.43C Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Support Indicator			NULL	

9.2.1.44 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E, F or On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Threshold	М				_	
>Received Total Wide Band Power					_	
>>Received Total Wide Band Power	М		INTEGER (0621)	According to mapping in [22] and [23]	-	
>Transmitted Carrier Power					_	
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles			(===7	FDD only	_	
>>Acknowledged PRACH Preambles	М		INTEGER (0240,)	According to mapping in [22]	_	
>UL Timeslot ISCP			(0.12.10,111)	TDD only	_	
>>UL Timeslot ISCP	М		INTEGER (0127)	According to mapping in [23]	_	
>SIR					_	
>>SIR	М		INTEGER (063)	According to mapping in [22] and [23]	_	
>SIR Error				FDD only	_	
>>SIR Error	M		INTEGER (0125)	According to mapping in [22]	_	
>Transmitted Code Power					_	
>>Transmitted Code Power	M		INTEGER (0127)	According to mapping in [22] and [23]	_	
>RSCP				TDD only	_	
>>RSCP	M		INTEGER (0127)	According to mapping in [23]	_	
>Rx Timing Deviation				Applicable to 3.84Mcps TDD only	_	
>>Rx Timing Deviation	M		INTEGER (08191)	According to mapping in [23]	_	
>Round Trip Time				FDD only	_	
>>Round Trip Time	M		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 Measurement Thresholds					_	
>>UTRAN GPS Timing Of Cell Frames For UE Positioning					-	
>>>Tutran-gps Measurement Threshold Information	М		9.2.1.64B		YES	reject
>>SFN-SFN Observed Time Difference					_	
>>>SFN-SFN Measurement Threshold Information	M		9.2.1.53C		YES	reject
>>Rx Timing Deviation LCR				Applicable to 1.28Mcps TDD Only	_	
>>>Rx Timing Deviation LCR	M		INTEGER (0511)	According to mapping in [23]	YES	reject

>>HS-SICH	1		Applicable to TDD		1
Reception Quality			Applicable to TDD Only	_	
>>>HS-SICH Reception Quality	М	INTEGER (020)	According to mapping in [23]	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission		(3123)		-	
>>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission	M	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 [23], measurement 'Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission"	YES	reject
>>HS-DSCH Required Power				_	
>>>HS-DSCH Required Power Value	М	9.2.1.31lba		YES	reject
>>Transmitted Carrier Power For Cell Portion			FDD only	-	
>>>Transmitted Carrier Power For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power measurement in [22]	YES	reject
>>Received Total Wide Band Power For Cell Portion			FDD only	_	
>>>Received Total Wide Band Power For Cell Portion	М	INTEGER (0621)	Mapping identical to the one for Received Total Wide Band Power measurement in [22]	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E- AGCH, E-RGCH or E-HICH Transmission For Cell Portion			FDD only	-	
>>> Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- HICH Transmission Value For Cell Portion	M	INTEGER (0100)	Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission measurement in [22]	YES	reject
>>UpPTS			1.28Mcps TDD Only	_	
interference >>>UpPTS	M	INTEGER	According to mapping	YES	reject

interference Value		(0127,)	in [23]		
>>DL Transmission		(0121,)	FDD Only	_	
Branch Load			1 DD Offiny		
>>>DI	М	 INTEGER	According to mapping	YES	reject
Transmission	IVI	(0101,)	in [22]	ILS	reject
Branch Load		(0101,)	[22]		
Value					
>>HS-DSCH			EDD only		
>>กง-บงบก Reguired Power			FDD only	_	
For Cell Portion					
	N.4	110 00011		VEO	!4
>>>HS-DSCH	М	HS-DSCH		YES	reject
Required Power		Required			
Value For Cell		Power Value			
Portion		9.2.1.31lba	500		
>>E-DCH Non-			FDD only	_	
serving Relative					
Grant Down					
Commands					
>>>E-DCH Non-	М	INTEGER	Down Commands per	YES	reject
serving Relative		(0100,)	second		
Grant Down					
Commands Value					
>>Additional HS-			Applicable to	_	
SICH Reception			1.28Mcps TDD Only		
Quality					
>>>HS-SICH	M	INTEGER	According to mapping	YES	reject
Reception Quality		(020)	in [23]		
LCR			used when the		
			Measurement		
			Threshold Value for		
			HS-SICH Reception		
			Quality are more than		
			20, Measurement		
			Threshold Value = 20		
			+ IE Value		

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></maxno 		The first repetition of the Message Structure IE corresponds to the top level of the message. The last repetition of the Message Structure IE corresponds to the level above the reported level for the occurred error of the message.
>IE ID	M		INTEGER (065535)	The IE ID of this level"s IE containing the not understood or missing IE.
>Repetition Number	0		INTEGER (1256)	The Repetition Number IE gives, if applicable, the number of occurrences of this level"s reported IE up to and including the occurrence containing the not understood or missing IE. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them.

Range Bound	Explanation
maxnooflevels	Maximum number of message levels to report. The value for
	maxnooflevels is 256.

9.2.1.46 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Procedure ID	М	1		
>Procedure Code	М		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 Initiation
				"8" = Common Measurement Report
				"9" = Common Measurement Termination
				"10" = Common Transport Channel Delete
				"11" = Common Transport Channel
				Reconfigure
				"12" = Common Transport Channel Setup
				"13" = Reset
				"14" = Compressed Mode Command
				"16" = Dedicated Measurement Failure
				"17" = Dedicated Measurement Initiation
				"18" = Dedicated Measurement Report
				"19" = Dedicated Measurement Termination "20" = Downlink Power Control
				"21" = Error Indication (For Dedicated
				Procedures)
				"23" = Radio Link Addition
				"24" = Radio Link Deletion
				"25" = 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
				"35" = Error Indication (For Common
				Procedures)
				"37" = Physical Shared Channel
				Reconfiguration
				"38" = Downlink Power Timeslot Control
				"39" = Radio Link Preemption
				"40" = Information Exchange Failure "41" = Information Exchange Initiation
				"42" = Information Exchange Trimation "42" = Information Exchange Termination
				"43" = Information Exchange Termination "43" = Information Reporting
				"44" = Cell Synchronisation Adjustment
				"45" = Cell Synchronisation Initiation
				"46" = Cell Synchronisation Reconfiguration
				"47" = Cell Synchronisation Reporting
				"48" = Cell Synchronisation Termination
				"49" = Cell Synchronisation Failure
				"50" = Bearer Rearrangement
				"51" = Radio Link Activation
				'52' = Radio Link Parameter Update
. Ddmaada	N/I			"53" = MBMS Notification Update
>Ddmode	M		ENUMERATED (Common = common to FDD and TDD.
			TDD, FDD,	
			Common,	
)	
Type of Message	M		ENUMERATED (

Initiating	
Message,	
Successful	
Outcome,	
Unsuccessful	
Outcome,	
Outcome)	

9.2.1.46a MICH CFN

The MICH CFN indicates the Connection Frame Number for the MICH. It corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located, see ref [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MICH CFN			INTEGER (04095)	

9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum DL Power Capability			INTEGER (0800)	Unit: dBm
				Range: -30 +50 dBm
				Step: 0.1 dB

9.2.1.47 Minimum Spreading Factor

This parameter indicates the minimum spreading factor supported at a cell within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading Factor			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512)	[TDD – Mapping scheme for the minimum spreading factor 1 and 2: '256' means 1 '512' means 2]

9.2.1.47a Modification Period

The Modification Period of the MICH, see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Modification Period			ENUMERATED	Unit: ms
			(1280, 2560, 5120,	
			10240)	

9.2.1.47A N_INSYNC_IND

This parameter is used by the Node B for achievement/re-achievement of UL synchronisation on the Uu interface as defined in ref. [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	М		9.2.1.65B	
UARFCN	М		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-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	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	M				_	
>On Demand			NULL		_	
>Periodic					_	
>>Report Periodicity	М		9.2.1.51a	The frequency with which the Node B shall send measurement reports.	-	
>Event A					_	
>>Measurement Threshold	M		9.2.1.44	The threshold for which the Node B shall trigger a measurement report.	_	
>>Measurement Hysteresis Time	0		9.2.1.41A		_	
>Event B					_	
>>Measurement Threshold	М		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					_	
>>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	М		9.2.1.43		-	
>>Measurement Change Time	M		9.2.1.40B	The time the measurement entity shall fall (in ms), in order to trigger a measurement report.	_	
>Event E				·	_	
>>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	М		Measurement Threshold 9.2.1.44		_	
>>Measurement Threshold 2	0		Measurement Threshold 9.2.1.44		_	
>>Measurement Hysteresis Time	0		9.2.1.41A		_	
>>Report Periodicity	0		9.2.1.51a	The frequency with which the Node B shall send	_	

				measurement reports.		
>Additional Report					_	
Characteristics						
>>On Modification					_	
>>>On		1			YES	reject
Modification						,
>>>Measurem	M		9.2.1.44		_	
ent Threshold						

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
DGPS Corrections	0		9.2.1.24B	
GPS Navigation Model & Time Recovery	0		9.2.1.31B	
GPS Ionospheric Model	0		9.2.1.31C	
GPS UTC Model	0		9.2.1.31D	
GPS Almanac	0		9.2.1.31F	
GPS Real-Time Integrity	0		9.2.1.31E	
GPS RX Pos	0		9.2.1.31G	

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	M			
>Information Available				
>>Requested Data Value	M		9.2.1.51A	
>Information Not Available			NULL	

9.2.1.52 Resource Operational State

The Resource Operational State is used to indicate the current operational state of the associated resource following a Node B failure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Resource Operational State			ENUMERATED (Enabled, Disabled)	When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to [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)	

9.2.1.53A 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	М		9.2.3.23	Indicates the Time Slot of the reference cell at which this measurement has been performed.

9.2.1.53E SFN-SFN Measurement Value Information

The *SFN-SFN Measurement Value Information* IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information		1 <maxno MeasNCell ></maxno 		
>UC-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></maxno 		
>UC-Id	М		9.2.1.65B	

Range Bound	Explanation
maxnoMeasNCell	Maximum number of neighbouring cells that can be measured on

9.2.1.53F SFN-SFN Value

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	M			
>FDD				
>>SFN-SFN	M		INTEGER	According to mapping in [22].
			(0614399)	
>TDD				
>>SFN-SFN	M		INTEGER (040961)	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
RL Specific DCH Information		1 <maxno ofDCHs></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.

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	Semantics Description
			Reference	
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
T [*]	I			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 Reference	Semantics Description
Start Of Audit Sequence Indicator			ENUMERATED (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></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 βc	М		INTEGER (015)	For UL DPCCH or control part of PRACH; mapping in accordance to [9]
>>>>>Gain Factor β _D	M		INTEGER (015)	For UL DPDCH or data part of PRACH: mapping in accordance to [9]
>>>>TDD				
>>>>Gain Factor β	M		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	M			
>DS Field				
>>DS Field	M		BIT STRING (8)	DS Field as defined in [35]. Typically used when the NodeB 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></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- TTldynami c	1 <maxtt Icount></maxtt 		
>>>>Transmission Time Interval	M		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	M		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 nd 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 IF is set to "dynamic"

Range Bound	Explanation
maxTFcount	Maximum number of different Transport Formats that can be included in the Transport Format Set for one transport channel
maxRM	Maximum number that could be set as rate matching attribute for a transport channel
maxTTlcount	The amount of different TTIs that are possible for that Transport Format

9.2.1.60 ToAWE

TOAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. TOAWE is defined with a positive value relative Latest Time of Arrival (LTOA). A data frame arriving after TOAWE gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWE			INTEGER (02559)	Unit: ms

9.2.1.61 ToAWS

TOAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. TOAWS is defined with a positive value relative Time of Arrival Window Endpoint (TOAWE). A data frame arriving before TOAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWS			INTEGER (01279)	Unit: ms

9.2.1.62 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B Control Port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Transaction ID Length				The Transaction ID shall be interpreted for its integer value, not for the type of encoding ("short" or "long").
>Short				
>>Transaction ID Value	М		INTEGER (0127)	
>Long				
>>Transaction ID Value	M		INTEGER (032767)	

9.2.1.62A Transport Bearer Request Indicator

Indicates whether a new transport bearer needs to be established for carrying the concerned transport channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Request Indicator			ENUMERATED (Bearer Requested, Bearer Not Requested,)	

9.2.1.63 Transport Layer Address

In case of transport bearer establishment with ALCAP [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,	
			l)	

9.2.1.64 TSTD Indicator

Indicates if TSTD shall be active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSTD Indicator			ENUMERATED (
			active,	
			inactive)	

9.2.1.64A T_{UTRAN-GPS} Measurement Value Information

The T_{UTRAN-GPS} *Measurement Value Information* IE indicates the measurement results related to the UTRAN GPS Timing of Cell Frames for UE Positioning measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tutran-gps		1		Indicates the UTRAN GPS Timing of Cell Frames forUE Positioning. According to mapping in [22]. Significant values range from 0 to 37158911999999.
>MS	M		INTEGER (016383)	Most Significant Part
>LS	M		INTEGER (04294967295)	Least Significant Part
Tutran-gps Quality	0		ÎNTEGER (0255)	Indicates the standard deviation (std) of the T _{UTRAN-GPS} measurements in 1/16 chip. T _{UTRAN-GPS} Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T _{UTRAN-GPS} Value, where x is the reported T _{UTRAN-GPS} Value and $\mu = E[x]$ is the expectation value of x.
T _{UTRAN-GPS} Drift Rate	M		INTEGER (-50+50)	Indicates the T _{UTRAN-GPS} drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock.
T _{UTRAN-GPS} Drift Rate Quality	0		INTEGER (050)	Indicates the standard deviation (std) of the T_{UTRAN} - $_{GPS}$ drift rate measurements in $1/256$ chip per second. $T_{UTRAN-GPS}$ Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported $T_{UTRAN-GPS}$ Drift Rate, where x is the reported $T_{UTRAN-GPS}$ Drift Rate and $\mu = E[x]$ is the expectation value of x.

9.2.1.64B T_{UTRAN-GPS} Measurement Threshold Information

The $T_{UTRAN-GPS}$ Measurement Threshold Information defines the related thresholds for UTRAN GPS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T _{UTRAN-GPS} Change Limit	0		INTEGER (1256)	Change of T _{UTRAN-GPS} value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted T _{UTRAN-GPS} Deviation Limit	0		INTEGER (1256)	Deviation of the predicated T _{UTRAN-GPS} from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

9.2.1.64C T_{UTRAN-GPS} Accuracy Class

The $T_{UTRAN-GPS}$ Accuracy Class IE indicates the accuracy class of the UTRAN GPS Timing of Cell Frames for UE Positioning measurement.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tutran-gps Accuracy Class			ENUMERATED (Accuracy Class A, Accuracy Class B, Accuracy Class C,)	More information about T _{UTRAN-GPS} Measurement Accuracy Class is included in [22].

9.2.1.65 UARFCN

Designates the central frequency of the channel number.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER (016383,)	Unit: MHz Range: 0 3276.6 MHz Step: 0.2 MHz (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
RNC-Id	M		9.2.1.53a	
C-Id	М		9.2.1.9	

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	Semantics Description
			Reference	
UL FP Mode			ENUMERATED (
			Normal,	
			Silent,	
)	

9.2.1.67 UL interference level

Void.

9.2.1.67A UL SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL SIR			INTEGER (-82173)	Value = UL SIR/10 Unit: dB Range: -8.2 +17.3 dB Step: 0.1 dB

9.2.1.68 Unidirectional DCH Indicator

The *Unidirectional DCH Indicator* IE indicates that the DCH is unidirectional.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Unidirectional DCH Indicator			ENUMERATED	
			(Downlink DCH only,	
			Uplink DCH only)	

9.2.2 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	M		CFN 9.2.1.7	
Transmission Gap Pattern Sequence Status		0 <maxt GPS></maxt 		
>TGPS Identifier	M		INTEGER (1maxTGPS)	If the group is not present, none of the pattern sequences are activated. References an already defined sequence.
>TGPRC	М		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< th=""><th></th><th></th></maxno<>		
		ofBestCell		
		Portions>		
>Cell Portion ID	M		9.2.2.1Ca	
>SIR Value	M		INTEGER (063)	According to mapping in [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 Reference	Semantics Description
Closed Loop Timing Adjustment Mode			ENUMERATED (Offset1.	According to ref. [10] subclause 7.1:
Adjustment wode			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	Semantics Description	Criticality	Assigned Criticality
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Reference			
DCH FDD Information		1 <maxno ofDCHs></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></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></maxno 			_	
>UL FP Mode	0		9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>Transport Bearer Request Indicator	M		9.2.1.62A		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	M		9.2.1.20		_	
>>Transport Format Set	0		9.2.1.59	For the UL.	_	
>>Transport Format Set	0		9.2.1.59	For the DL.		
>>Allocation/Retention Priority	0		9.2.1.1A		_	
>>Frame Handling Priority	0		9.2.1.30		_	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	reject
>TNL QoS	0		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

9.2.2.4F DCH Indicator For E-DCH-HSDPA Operation

The DCH Indicator For E-DCH-HSDPA Operation parameter indicates whether *DCH Information* IE should be ignored in the message in which the *DCH Indicator For E-DCH-HSDPA Operation* IE is included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DCH Indicator For E-DCH-			ENUMERATED	
HSDPA Operation			(DCH not present)	

9.2.2.5 D-Field Length

Void.

9.2.2.6 Dedicated Channels Capacity Consumption Law

Void.

9.2.2.7 Diversity Control Field

Void.

9.2.2.8 Diversity Indication

Void.

9.2.2.9 Diversity Mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Mode			ENUMERATED (None, STTD, Closed loop mode 1, Not Used)	The <i>Diversity Mode</i> IE shall never be set to "Not Used". If received it shall be rejected.

9.2.2.10 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to ref. [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 (timing advance,	The size of the timing 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 _size			INTEGER (160)	Unit: inner loop power adjustments Range: 160 Step: 1 adjustment

9.2.2.12B DL Power Balancing Information

The *DL Power Balancing Information* IE provides information for power balancing to be activated in the relevant RL(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Adjustment Type	M		9.2.2.27	
DL Reference Power	C-		DL Power	Power on DPCH or on F-
	Common		9.2.1.21	DPCH
DL Reference Power	C-	1 <maxno< td=""><td></td><td></td></maxno<>		
Information	Individual	ofRLs>		
>RL ID	M		9.2.1.53	
>DL Reference Power	M		DL Power	Power on DPCH or on F-
			9.2.1.21	DPCH
Max Adjustment Step	C-		9.2.2.20	
	CommonO			
	rIndividual			
Adjustment Period	C-		9.2.2.B	
	CommonO			
	rIndividual			
Adjustment Ratio	C-		9.2.2.C	
	CommonO			
	rIndividual			

Condition	Explanation
Common	The IE shall be present if the Power Adjustment Type IE is set to
	"Common".
Individual	The IE shall be present if the 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)	ļ

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	
			Activated)	

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	Semantics Description
			Reference	
DPC Mode			ENUMERATED ("Mode0": The Node B shall
			Mode0,	estimate the UE transmitted
			Mode1,	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
E-DCH MAC-d Flows Information	M		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.
E-DCH Maximum Bitrate	0		9.2.2.13T	
E-DCH Processing Overload Level	0		9.2.2.13U	
E-DCH Reference Power Offset	0		9.2.2.13Y	

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	M		9.2.2.130	
>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	

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
E-DCH MAC-d Flow Specific Information Response		0 <maxno ofEDCHM ACdFlows ></maxno 		
>E-DCH MAC-d Flow ID	M		9.2.2.130	
>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	
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
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 9.2.2.13P	
Secondary E-RNTI	0		E-RNTI 9.2.2.13P	
E-RGCH/E-HICH Channelisation Code	0		FDD DL Channelisation Code Number 9.2.2.14	
E-RGCH Signature Sequence	0		INTEGER (0maxnoofSigSeqE -RGHICH - 1)	
E-HICH Signature Sequence	0		INTEGER (0maxnoofSigSeqE -RGHICH - 1)	
Serving Grant Value	0		INTEGER (037,38)	(037) indicates E-DCH serving grant index as defined in [32]; index 38 means zero grant
Primary/Secondary Grant Selector	0		ENUMERATED (Primary, Secondary)	Indicates whether the Serving Grant Value is granted with a primary E-RNTI or a secondary E-RNTI
E-RGCH Release Indicator	0		9.2.2.13lc	

Range bound	Explanation
maxnoofSigSegF-RGHICH	Maximum number of Signature Sequences for F-RGCH/F-HICH.

9.2.2.13De E-DCH RL Indication

Indicates whether a RL is an E-DCH RL.

Presence	Range	IE Type and Reference	Semantics Description
		ENUMERATED(E-	
		Troomer Range	Reference

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
E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows ></maxno 		
>E-DCH MAC-d Flow ID	M		9.2.2.130	
>Allocation/Retention Priority	0		9.2.1.1A	
>Transport Bearer Request Indicator	M		9.2.1.62A	
>TNL QoS	0		9.2.1.58A	
>Maximum Number Of Retransmissions For E-DCH	0		9.2.2.20D	
>E-DCH HARQ Power Offset FDD	0		9.2.2.13Dk	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.2.13DI	
>CHOICE <i>E-DCH Grant</i> Type	0			
>>E-DCH Non-Scheduled Transmission Grant				
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	M		9.2.2.13Dm	
>>>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	
>>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 9.2.2.13K	
>E-DCH Logical Channel To Modify	0		9.2.2.13L	
>E-DCH Logical Channel To Delete		0< maxnooflo gicalchann els>		
>>Logical Channel ID	М		9.2.2.18c	
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		9.2.2.13U	
E-DCH Reference Power Offset	0		9.2.2.13Y	
MAC-e Reset Indicator	0		9.2.2.20F	

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

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 and the Reference E-TFCIs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-TFCI Table Index	М		INTEGER (01,)	Indicates which standardised E-TFCS Transport Block Size Table shall be used. The related tables are specified in [32].
E-DCH Minimum Set E-TFCI	0		INTEGER (0127)	For the concept of "E-DCH Minimum Set of TFCs" see [32] and [18].
Reference E-TFCI		1 <maxno< td=""><td></td><td></td></maxno<>		
Information		ofRefETF		
		Cls>		
>Reference E-TFCI	M		INTEGER (0127)	
>Reference E-TFCI Power Offset	М		9.2.2.13Dp	

Range Bound	Explanation
maxnoofRefETFCIs	Maximum number of signalled reference E-TFCIs

9.2.2.13Di E-TTI

The E-TTI parameter indicates the Transmission Time Interval for E-DPCH operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-TTI			ENUMERATED (2ms, 10ms)	

9.2.2.13Dj E-DPCCH Power Offset

The E-DPCCH Power Offset is used to calculate the E-DPCCH gain factor β_{ec} as defined in [10], whereas β_{ec} is related to the power difference between DPCCH and E-DPCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DPCCH Power Offset			INTEGER (08)	According to mapping in ref. [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			INTEGER (06)	According to mapping in ref.
FDD				[9] subclause 4.2.1.3.

9.2.2.13DI 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 Reference	Semantics Description	
E-DCH MAC-d Flow Multiplexing List			BIT STRING (8)	The first Bit corresponds to E-DCH MAC-d flow 0, the second bit corresponds to E-DCH MAC-d flow 1, etc.	

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.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of Bits per			INTEGER (119982)	
MAC-e PDU for Non- scheduled Transmission				

9.2.2.13Dn HARQ Process Allocation For 2ms TTI

The HARQ Process Allocation for 2ms TTI indicates those HARQ processes that are allowed. MAC-d PDU"s for a MAC-d flow are only allowed to be transmitted in those processes for which the bit is set to "1".

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Process Allocation For 2ms TTI			BIT STRING (8)	The first Bit corresponds to HARQ process ID = 0, the second bit corresponds to HARQ process ID = 1, etc. The HARQ process ID for 2ms TTI is defined in [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].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference E-TFCI Power Offset			INTEGER (029)	According to mapping in ref. [9] subclause 4.2.1.3

9.2.2.13E Enhanced DSCH PC

Void.

9.2.2.13F Enhanced DSCH PC Counter

Void.

9.2.2.13G Enhanced DSCH PC Indicator

Void.

9.2.2.13H Enhanced DSCH PC Wnd

Void.

9.2.2.13I Enhanced DSCH Power Offset

Void.

9.2.2.13la E- RGCH/E-HICH Code Information

This parameter defines the codes which will be assigned for E- RGCH and E-HICH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE replaceremove	M			
>replace				
>>E-RGCH/E-HICH Code		1 <maxno ofERGCH EHICHs></maxno 		
>>>Code Number	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	M		11010101100	
>replace				
>>E-AGCH Code		1 <maxno ofEAGCHs ></maxno 		
>>>Code Number	М		FDD DL Channelisation Code Number 9.2.2.14	
>remove			NULL	

Range Bound	Explanation
MaxnoofEAGCHs	Maximum number of E-AGCH chanellisation codes for one cell.

9.2.2.13lc E-RGCH Release Indicator

Indicates the E-RGCH is released.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH Release Indicator			ENUMERATED (E- RGCH released)	

9.2.2.13Id E-AGCH Power Offset

The *E-AGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured.

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.

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.

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

9.2.2.13Ig 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

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)	

9.2.2.13Ja E-DCH Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the RL/RLS situation and the number of uplink E-DPDCHs and their spreading factors. The reference spreading factor and number of E-DPDCH is signalled using the *Maximum Set of E-DPDCHs* IE.

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.

The costs given in the consumption law are the costs per channelization code/no of E-DPDCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1 <maxno ofCombED PDCH></maxno 		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

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></maxno 		
>Logical Channel ID	M		9.2.2.18c	
>Scheduling Priority Indicator	M		9.2.1.53H	
>Scheduling Information	M		9.2.2.40A	
>MAC-es Guaranteed Bit Rate	0		9.2.2.20E	
>E-DCH DDI Value	М		9.2.2.13Q	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< maxnoofM ACdPDUS ize		
>>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

9.2.2.13L 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></maxno 		
>Logical Channel ID	M		9.2.2.18c	
>Scheduling Priority Indicator	0		9.2.1.53H	
>Scheduling Information	0		9.2.2.40A	
>MAC-es Guaranteed Bit Rate	0		9.2.2.20E	
>E-DCH DDI Value	0		9.2.2.13Q	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< maxnoofM ACdPDUS ize		
>>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		

9.2.2.13M 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
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows ></maxno 		
>E-DCH MAC-d Flow ID	М		9.2.2.130	
>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		9.2.2.20D	
>E-DCH HARQ Power Offset FDD	М		9.2.2.13Dk	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.2.13DI	
>CHOICE E-DCH Grant Type	М			
>>E-DCH Non-Scheduled Transmission Grant				
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	M		9.2.2.13Dm	
>>>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	If this IE is not included, transmission in all HARQ processes is allowed.
>>E-DCH Scheduled Transmission Grant			NULL	
>Bundling Mode Indicator	0		9.2.2.1Bb	
>E-DCH Logical Channel Information	М		9.2.2.13K	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

9.2.2.13N E-DCH MAC-d Flows To Delete

The *E-DCH MAC-d Flows To Delete* IE is used for the removal of E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flows To Delete		1 <maxno ofEDCHM ACdFlows</maxno 		
>E-DCH MAC-d Flow ID	М		9.2.2.130	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

9.2.2.13O 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)	ļ

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

9.2.2.13P 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)	

9.2.2.13Q 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)	

9.2.2.13R 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,)	

9.2.2.13S 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 Value Information		1 <maxno ofPriorityCl asses></maxno 		
>Scheduling Priority Indicator	M		9.2.1.53H	
>E-DCH Provided Bit Rate Value	М		9.2.2.13R	

Range Bound	Explanation
maxNoofPriorityClasses	Maximum number of E-DCH Scheduling Priorities

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

9.2.2.13U E-DCH Processing Overload Level

The *E-DCH Processing Overload Level* IE defines the threshold that determines when the Node B shall indicate processing issue problems to the RNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
E-DCH Processing Overload Level			INTEGER (010,)	Number of consecutive TTIs. The value "0" is a special value that means infinity, i.e. when this value is used, the Node B shall never indicate processing issue to the RNC.

9.2.2.13V E-DCH TTI Capability

This parameter defines the E-DCH TTI Capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TTI2ms Capability			BOOLEAN	True = TTI 10ms and 2ms supported for E-DCH False = only TTI 10ms supported for E-DCH

9.2.2.13W E-DCH SF Capability

This parameter defines the E-DCH Capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH SF Capability			ENUMERATED	Min SF supported by the cell in
			(sf64, sf32, sf16, sf8,	E-DCH
			sf4, 2sf4, 2sf2,	
			2sf2and2sf4,)	

9.2.2.13X E-DCH HARQ Combining Capability

This parameter defines the E-DCH HARQ Combining capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH HARQ Combining Capability			ENUMERATED (IR Combining Capable, Chase Combining Capable, IR and Chase Combining Capable)	

9.2.2.13Y E-DCH Reference Power Offset

The E-DCH Reference Power Offset is used to estimate the E-DPDCH power from E-TFCI without decoding MAC-e PDUs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Reference Power Offset			INTEGER (06)	According to mapping in ref. [9] subclause 4.2.1.3.

9.2.2.14 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD DL ChannelisationCode Number			INTEGER (0511)	According to the mapping in [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	М		9.2.2.14	
>Transmission Gap Pattern Sequence Code Information	0		9.2.2.53B	

Range Bound	Explanation
maxnoofCodes	Maximum number of DL code information

9.2.2.14B FDD S-CCPCH Frame Offset

The FDD S-CCPCH Frame Offset IE represents a frame offset between the concerned S-CCPCH"s CFN (Connection Frame Number) relatively to the P-CCPCH"s SFN (System Frame Number) of the respective cell. The FDD S-CCPCH Frame Offset IE shall be the constant difference between the S-CCPCH"s CFN and the least significant 8 bits of the SFN (System Frame Number) on Uu.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD S-CCPCH Frame Offset			ENUMERATED (1, 2, 4,)	Offset in frames (corresponding to 10msec, 20msec or 40msec offset in time)

9.2.2.15 FDD SCCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD SCCPCH Offset			INTEGER (0149)	Unit: chip Range: 038144 chips Step: 256 chips See ref. [7]

9.2.2.16 FDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD TPC Downlink Step Size			ENUMERATED (0.5, 1, 1.5, 2,)	Unit: dB

9.2.2.16a F-DPCH Capability

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

9.2.2.16A First RLS Indicator

The *First RLS Indicator* IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
First RLS Indicator			ENUMERATED (First RLS, Not First RLS,)	

9.2.2.17 Gap Period

Void.

9.2.2.18 Gap Position Mode

Void.

9.2.2.18a HARQ Preamble Mode

The HARQ Preamble Mode IE is used as described as in ref [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			ENUMERATED(HA	
Activation Indicator			RQ Preamble Mode	
			Activated).	

9.2.2.18ba HARQ Info for E-DCH

The E-DCH HARQ Info is used to indicate the use of redundancy version (RV) for the EDCH HARQ transmissions.

IE/Group name	Presence	Range	IE Type and 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

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)		

9.2.2.18A 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	Semantics Description
			Reference	
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].

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					_	
>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

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	Semantics Description	Criticality	Assigned Criticality
			Reference			
HS-DSCH MAC-d Flow Specific Information Response		0 <maxno ofMACdFl ows></maxno 			_	
>HS-DSCH MAC-d Flow ID	М	0.101	9.2.1.311		_	
>Binding ID	0		9.2.1.4		_	
>Transport Layer Address	Ō		9.2.1.63		_	
>HS-DSCH Initial Capacity Allocation	0		9.2.1.31Ha		_	
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes></maxno 			-	
>Code Number	М		INTEGER (0127)		_	
CHOICE HARQ Memory Partitioning	0				_	
>Implicit					_	
>>Number of Processes >Explicit	M		INTEGER (18,)	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].	_	
		1		The first	_	
>>HARQ Memory Partitioning Infomation		1 <maxno ofHARQpr ocesses></maxno 		The first instance of the parameter corresponds to HARQ process with identifier 0, the second instance to HARQ process with identifier 1, and so on.	_	
>>>Process Memory Size	М		9.2.1.49D	See [18]	-	
HARQ Preamble Mode Activation Indicator	0		9.2.2.18b		YES	ignore

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes
MaxnoofHARQprocesses	Maximum number of HARQ processes for one UE

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
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	

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	Semantics Description
			Reference	
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	

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
CHOICE Serving Cell Change				
>Successful				
>>HS-DSCH FDD Information Response	M		9.2.2.18E	
>Unsuccessful				
>>Cause	M		9.2.1.6	

9.2.2.18Ed E-DCH Serving Cell Change Information Response

The *E-DCH Serving Cell Change Information Response* IE contains information which is used in E-DCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Serving Cell Change				
>Successful				
>>RL Information Response		0 <maxno ofRLs></maxno 		
>>>RL ID	M		9.2.1.53	
>>>E-DCH FDD DL	M		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 Reference	Semantics Description
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></maxno 		
>>>Code Number	М		INTEGER (0maxHS-SCCHCo deNrComp-1)	
>remove			NULL	

Range Bound	Explanation
MaxnoofHSSCCHs	Maximum number of HS-SCCHs for one cell.
MaxHS-SCCHCodeNrComp	Maximum number of codes at the defined spreading factor, within the
	complete code tree

9.2.2.18H HS-SCCH ID

Void.

9.2.2.18I HS-SCCH Power Offset

The *HS-SCCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when FDPCH is configured.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Power Offset			INTEGER (0255)	Unit: dB Range: -32 +31.75 dB Step: 0.25 dB

9.2.2.18K Initial DL DPCH Timing Adjustment Allowed

The *Initial DL DPCH Timing Adjustment Allowed* IE indicates that the Node B is allowed to perform a timing adjustment (either a timing advance or a timing delay with respect to the SFN timing) when establishing a radio link.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Initial DL DPCH Timing			ENUMERATED (
Adjustment Allowed			initial DL DPCH	
-			Timing Adjustment	
			Allowed)	

9.2.2.19 Max Adjustment Period

Void.

9.2.2.20 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level during a certain number of slots that can be utilised by the downlink power balancing algorithm. *Max Adjustment Step* IE defines a time period, in terms of number of slots, in which the accumulated power adjustment shall be maximum 1dB. This value does not include the DL inner loop PC adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max Adjustment Step			INTEGER (110)	Unit: Slots

9.2.2.20A Max Number Of PCPCHs

Void.

9.2.2.20B Max Number Of UL E-DPDCHs

Void.

9.2.2.20C Maximum Set of E-DPDCHs

The Maximum Set of E-DPDCHs as defined in [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,)	

9.2.2.20D 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)	

9.2.2.20E 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-es Guaranteed Bit Rate			INTEGER (02^24- 1,)	Unit: bit/s

9.2.2.20F 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)	

9.2.2.21 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	Semantics Description
			Reference	
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	Unit ms
_			(0, 2, 4, 8, 10, 20,	
			40, 80, 160,)	

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 Portions			INTEGER (164,)	

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	Semantics Description
			Reference	
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.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Propagation Delay			INTEGER (0255)	Unit: chip
				Range: 0765 chips
				Step: 3 chips

9.2.2.36 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 ></maxno 		
>E-DCH MAC-d Flow ID	М		9.2.2.130	
>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

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.

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].

9.2.2.40 S-Field Length

Void.

9.2.2.40A 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)	

9.2.2.41 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	M			
>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	Semantics Description
			Reference	
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></maxt 		
>TGPS Identifier	M	S. 67	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	M		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	М		ENUMERATED (UL only, DL only, UL/DL)	Defines whether only DL, only UL or combined UL/DL compressed mode is used.
>Downlink Compressed Mode Method	C-DL		ENUMERATED (Not Used, SF/2, Higher Layer Scheduling,)	Method for generating downlink compressed mode gap.The Downlink Compressed Mode Method IE shall never be set to "Not Used".
>Uplink Compressed Mode Method	C-UL		ENUMERATED (SF/2, Higher Layer Scheduling,)	Method for generating uplink compressed mode gap.
>Downlink Frame Type	М		ENUMERATED (A, B,)	Defines if frame structure type "A" or "B" shall be used in downlink compressed mode.
>DeltaSIR1	M		INTEGER (030)	Delta in SIR target value to be set in the Node B during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). Unit: dB Range: 03 dB Step: 0.1 dB

>DeltaSIRafter1	M	INTEGER (030)	Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the first transmission gap in the transmission gap pattern. Unit: dB Range: 03 dB Step: 0.1 dB
>DeltaSIR2	0	INTEGER (030)	Delta in SIR target value to be set in the Node B during the frame containing the start of the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). When omitted, DeltaSIR2 = DeltaSIR1. Unit: dB Range: 03 dB Step: 0.1 dB
>DeltaSIRafter2	0	INTEGER (030)	Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Unit: dB Range: 03 dB Step: 0.1 dB

Condition	Explanation
UL	The IE shall be present if the <i>UL/DL mode</i> IE is set to "UL only" or "UI /DI.".
DL	The IE shall be present if the <i>UL/DL mode</i> IE is set to "DL only" or "UL/DL".

Range Bound	Explanation
maxTGPS	Maximum number of transmission gap pattern sequences

9.2.2.53B Transmission Gap Pattern Sequence Code Information

This IE indicates whether the alternative scrambling code shall used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [9].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Transmission Gap Pattern Sequence Code Information			ENUMERATED (Code Change, No Code Change)	Indicates whether the alternative scrambling code is used for compressed mode method "SF/2".

9.2.2.54 UL/DL compressed mode selection

Void.

9.2.2.55 UL delta SIR

Void.

9.2.2.56 UL delta SIR after

Void.

9.2.2.57 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPCCH Slot Format			INTEGER (05,)	

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	Semantics Description
			Reference	
UL Scrambling Code Number	M		INTEGER (02 ²⁴ -1)	
UL Scrambling Code Length	M		ENUMERATED (
			Short,	
			Long)	

9.2.2.60 UL Capacity Credit

Void.

9.2.2.61 UL DPDCH Indicator For E-DCH Operation

The UL DPDCH Indicator For E-DCH Operation parameter indicates whether some UL DPCH parameters should be ignored or not in the message in which the *UL DPDCH Indicator For E-DCH Operation* IE was included or that any UL DPDCH resources shall be removed from the communication context configuration.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPDCH Indicator For E-			ENUMERATED (
DCH Operation			UL-DPDCH present,	
			UL-DPDCH not	
			present)	

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 - 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	Unit: dB
			(-1010,)	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></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></maxno 			_	
>>DCH ID	М		9.2.1.20		_	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	_	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	М		9.2.1.59	For UL	_	
>>Transport Format Set	М		9.2.1.59	For DL	_	
>>Allocation/Retention Priority	M		9.2.1.1A		_	
>>Frame Handling Priority	М		9.2.1.30		_	
>>QE-Selector	C- CoorDCH		9.2.1.50A		_	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	reject
>TNL QoS	0		9.2.1.58A		YES	ignore

Condition	Explanation
CoorDCH	The IE shall be present if this DCH is part of a set of coordinated
	DCHs (number of instances of the DCH Specific Info IE is greater
	than 1).

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

9.2.3.4D DCHs TDD To Modify

The $DCHs\ TDD\ To\ Modify\ IE$ provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCHs TDD To Modify		1 <maxno ofDCHs></maxno 			_	
>UL FP Mode	0		9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>Transport Bearer Request Indicator	M		9.2.1.62A		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	М		9.2.1.20		_	
>>CCTrCH ID	0		9.2.3.3	UL CCTrCH in which the DCH is mapped.	_	
>>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	0		9.2.1.59	For the UL.	_	
>>Transport Format Set	0		9.2.1.59	For the DL.	_	
>>Allocation/Retention Priority	0		9.2.1.1A		-	
>>Frame Handling Priority	0		9.2.1.30			
>TNL QoS	0		9.2.1.58A		YES	ignore

Range Bound	Explanation	
maxnoofDCHs	Maximum number of DCHs for one UE	

9.2.3.4E DL Timeslot Information

The *DL Timeslot Information* IE provides information for DL Time slot to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot Information		1 <maxno ofDLts></maxno 		
>Time Slot	M		9.2.3.23	
>Midamble Shift And Burst Type	М		9.2.3.7	
>TFCI Presence	М		9.2.1.57	
>DL Code Information	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></maxno 		
>Time Slot	M		9.2.3.23	
>DL Timeslot ISCP	M		9.2.3.4B	

Range Bound	Explanation
maxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps
	TDD.

9.2.3.4G Cell Sync Burst Code

The Cell Sync Burst Code IE indicates which Code is used for a given Cell Sync Burst.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Code			INTEGER (07,)	

9.2.3.4H Cell Sync Burst Code Shift

The Cell Sync Burst Code Shift IE indicates the number of code shifts used for a given Cell Sync Burst.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Code Shift			INTEGER (07)	

9.2.3.4I CSB Measurement ID

The Cell Sync Burst Measurement ID IE uniquely identifies any cell synchronisation burst measurement per Node B Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CSB Measurement ID			INTEGER (065535)	

9.2.3.4J Cell Sync Burst Repetition Period

The *Cell Sync Burst Repetition Period* IE represents the number of consecutive Radio Frames after which the cell synchronisation burst transmission/measurement is repeated. This means that if the Time Slot K is assigned to the cell synchronisation burst transmission/measurements in the Radio Frame J, the cell synchronisation burst transmission/measurement is also in all the Radio Frames J+n*Repetition Period.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Repetition Period			INTEGER (04095)	

9.2.3.4K Cell Sync Burst SIR

Indicates the Signal to Interference Ratio of the cell synchronisation burst measurement according definition in [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 Value	М		INTEGER (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				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 Reference	Semantics Description
Cell Sync Burst Timing Threshold			INTEGER (0254)	Unit: chip Range: 0 31.75 chips Step: 0.125 chip

9.2.3.4N CSB Transmission ID

The Cell Sync Burst Transmisson ID IE uniquely identifies any cell synchronisation burst transmission per Node B Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CSB Transmission ID			INTEGER (065535)	

9.2.3.40 DL Timeslot Information LCR

The DL Timeslot Information LCR IE provides information for DL Time slot to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information LCR		1 <ma xnoofD LtsLCR ></ma 			-	
>Time Slot LCR	M		9.2.3.24A		ı	
>Midamble Shift LCR	M		9.2.3.7A		1	
>TFCI Presence	M		9.2.1.57		1	
>DL Code Information	M		TDD DL Code Information LCR 9.2.3.19C		1	
>Initial DL Transmission Power	0		DL Power 9.2.1.21	Initial power on DPCH	YES	ignore
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	YES	ignore
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	YES	ignore

Range Bound	Explanation
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps
	TDD.

9.2.3.4P DL Time Slot ISCP Info LCR

The *DL Time Slot ISCP Info LCR* IE provides information for DL Interference level for each time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Time Slot ISCP Info LCR		1 <maxno ofDLtsLCR ></maxno 		
>Time Slot LCR	M		9.2.3.24A	
>DL Timeslot ISCP	М		9.2.3.4B	

Range Bound	Explanation
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps
	TDD.

9.2.3.5 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH ID			INTEGER (0239)	

9.2.3.5a DSCH ID

The DSCH ID uniquely identifies a DSCH within a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH ID			INTEGER (0255)	

9.2.3.5b DSCH Information Response

The DSCH Information Response IE provides information for DSCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH Information Response		1 <maxno ofDSCHs></maxno 		
>DSCH ID	М		9.2.3.5a	
>Binding ID	0		9.2.1.4	
>Transport Layer Address	0		9.2.1.63	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE

9.2.3.5A DSCH TDD Information

The DSCH TDD Information IE provides information for DSCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <max noofDS CHs></max 			-	
>DSCH ID	M		9.2.3.5a		_	
>CCTrCH ID	М		9.2.3.3	DL CCTrCH in which the DSCH is mapped	_	
>Transport Format Set	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

Range Bound	Explanation
MaxnoofDSCHs	Maximum number of DSCH for one UE

9.2.3.5B DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the DwPCH, the DwPCH power is the linear sum of the power that is used for transmitting the DwPCH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DwPCH Power			INTEGER	Unit: dBm
			(-150+400,)	Range: -15+40 dBm
				Step: 0.1 dB

9.2.3.5C Frame Adjustment Value

The Frame Adjustment Value IE represents the frame number correction within the initial synchronisation phase.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Adjustment Value			INTEGER (04095)	SFN _{new} =(SFN _{old} +Frame Adjustment Value) mod 4096

9.2.3.5D IPDL TDD Parameter

The IPDL TDD Parameter IE provides information about IPDL to be applied for 3.84Mcps TDD 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	M		INTEGER (04095)	See [21]
IP Slot	M		INTEGER (014)	See [21]
IP PCCPCH	М		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					_	
Information						
>HS-DSCH Physical	M		9.2.1.31la		_	
Layer Category						
>1.28 Mcps TDD	0		9.2.3.5Gc	Applicable to	YES	ignore
Uplink Physical				1.28Mcps TDD only		
Channel Capability						
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		

9.2.3.5G HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d		0 <max< td=""><td></td><td></td><td>_</td><td>,</td></max<>			_	,
Flow Specific		noofMA				
Information		CdFlow				
Response		s>				
>HS-DSCH MAC-d Flow ID	М		9.2.1.311		_	
>Binding ID	0		9.2.1.4		_	
>Transport Layer	0		9.2.1.63		_	
Address						
> HS-DSCH Initial	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		
Response		SCCHc				
		odes>				
>Time Slot	M		9.2.3.23		_	
>Midamble Shift And	М		9.2.3.7		_	
Burst Type >TDD Channelisation	M		0.0.0.40			
Code	IVI		9.2.3.19		_	
>HS-SICH		1			_	
Information		'			_	
>>HS SICH ID	М		9.2.3.5Gb		_	
>>Time Slot	M		9.2.3.23		_	
>>Midamble Shift	M		9.2.3.7		_	
And Burst Type	141		0.2.0.7			
>>TDD	М		9.2.3.19		_	
Channelisation			0.2.0.10			
Code						
HS-SCCH Specific		0 <max< td=""><td></td><td>Not applicable to 3.84</td><td>GLOBAL</td><td>reject</td></max<>		Not applicable to 3.84	GLOBAL	reject
Information		NoOfHS		Mcps TDD		-
Response LCR		SCCHc				
=		odes>				
>Time Slot LCR	M		9.2.3.24A		_	
>Midamble Shift LCR	M		9.2.3.7A		_	
>First TDD	М		TDD		_	
Channelisation Code			Channelisatio n Code			
			9.2.3.19			
>Second TDD	M		TDD		_	
Channelisation Code	IVI		Channelisatio			
Charmensation code			n Code			
			9.2.3.19			
>HS-SICH		1			_	
Information LCR						
>>HS SICH ID	М		9.2.3.5Gb			
>>Time Slot LCR	M		9.2.3.24A		_	
>>Midamble Shift	M		9.2.3.7A			
LCR						
>>TDD	M		9.2.3.19		_	
		1	i		1	
Channelisation						
Channelisation Code						
Channelisation Code CHOICE HARQ	0				_	
Channelisation Code CHOICE HARQ Memory Partitioning	0					
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit			INTEGER	For HARO process	_ 	
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of	O M		INTEGER	For HARQ process		
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit			INTEGER (18,)	IDs going from 0 to		
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of						
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of				IDs going from 0 to "Number of		
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of				IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits [33] is		
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of				IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits [33] is partitioned equally		
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of				IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits [33] is partitioned equally between all HARQ		
Channelisation Code CHOICE HARQ Memory Partitioning >Implicit >>Number of				IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits [33] is partitioned equally		

IE/Group Name	Presence	Range	IE Type and	Semantics	Criticality	Assigned
			Reference	Description		Criticality
>Explicit					_	
>>HARQ Memory		1 <max< th=""><th></th><th>The first instance of</th><th>_</th><th></th></max<>		The first instance of	_	
Partitioning		noofHA		the parameter		
Infomation		RQproc		corresponds to HARQ		
		esses>		process with identifier		
				0, the second		
				instance to HARQ		
				process with identifier		
				1, and so on.		
>>>Process	M		9.2.1.49D	See [18]	_	
Memory Size						

Range Bound	Explanation		
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows.		
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes		
maxnoofHARQprocesses	Maximum number of HARQ processes for one UE		

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 PhysicalCchannelCapability IE defines the UE uplink radio access capacity, see ref [33].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Maximum Number of	M		INTEGER	
timeslots per subframe			(16)	
Maximum number of physical	M		ENUMERATED	
channels per timeslot			(one, two,)	

9.2.3.5H IPDL TDD Parameters LCR

The IPDL TDD Parameters LCR IE provides information about IPDL to be applied for 1.28Mcps TDD when activated.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP SpacingTDD	M		ENUMERATED (30, 40, 50, 70, 100,)	See [21]
IP Start	M		INTEGER (04095)	See [21]
IP_Sub	M		ENUMERATED (First, Second, Both)	See [21]
Burst Mode Parameters	0		9.2.1.5A	

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,)	

9.2.3.7 Midamble Shift And Burst Type

This information element indicates burst type and midamble allocation.

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		INTEGER (4, 8, 16)	As defined in [19]
>>CHOICE Midamble Allocation Mode	М			
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific Midamble				
>>Midamble Shift Long	M		INTEGER (015)	
>Type2				
>>Midamble Configuration Burst Type 2	М		INTEGER (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		INTEGER (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 Reference	Semantics Description
Midamble Allocation Mode	M		ENUMERATED (Default midamble, Common midamble, UE specific midamble,)	
Midamble Shift Long	C-UE		INTEGER (015)	
Midamble Configuration LCR	М		ENUMERATED (2, 4, 6, 8, 10, 12, 14, 16,)	As defined in [19]

Condition	Explanation		
UE	The IE shall be present if the <i>Midamble Allocation Mode</i> 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 Period			ENUMERATED (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 Cycle Period			INTEGER (210)	

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	Unit: dBm
			(-15+40,)	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	Semantics Description
			Reference	
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	Semantics Description
			Reference	
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].

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].

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	Presence	Range	IE Type and Reference	Semantics Description
Synchronisation Report Characteristics Type	M		ENUMERATED (Frame related, SFN period related, Cycle length related, Threshold exceeding, Frequency Acquisition completed,)	
Threshold Exceeding	C- Threshold Exceeding			Applies only to the Steady State Phase
>Cell Sync Burst Threshold Information		0 <maxno ofCellSync Bursts></maxno 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
>>Sync Frame Number To Receive	M		Sync Frame Number 9.2.3.18C	
>>Cell Sync Burst Information		1 <maxno ofreceptio nsperSync Frame></maxno 		
>>>Cell Sync Burst Code	М		9.2.3.4G	
>>>Cell Sync Burst Code Shift	М		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 <maxno ofSyncFra mesLCR></maxno 		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.
>>Sync Frame Number To Receive	M		Sync Frame Number 9.2.3.18C	
>>SYNC_DL Code Information LCR		1 <maxno ofreceptio nsperSync FrameLCR ></maxno 		
>>>SYNC_DL Code ID	М		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 Reference	Semantics Description
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

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 Offset 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				
>Initial Offset				
>>TDD DPCH Offset Value	M		INTEGER (0255)	
>No Initial Offset				
>>TDD DPCH Offset Value	M		INTEGER (063)	

9.2.3.19B TDD DL Code Information

The TDD DL Code Information IE provides DL Code information for the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information		1 <maxno ofDPCHs></maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code	M		9.2.3.19	

Range Bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH

9.2.3.19C TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information LCR		1 <maxno ofDPCHsL CR></maxno 		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code LCR	М		9.2.3.19a	
>TDD DL DPCH Time Slot Format LCR	M		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,)	

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></maxno 		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code	М		9.2.3.19	

Range Bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH

9.2.3.21B TDD UL Code Information LCR

The TDD UL Code Information LCR IE provides information for UL Code to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD UL Code Information LCR		1 <maxno ofDPCHsL CR></maxno 		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code LCR	M		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	М		INTEGER (024,)	

9.2.3.22 TFCI Coding

The TFCI Coding describes the way how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Coding			ENUMERATED (4, 8, 16, 32,)	

9.2.3.22a Timing Adjustment Value

The *Timing Adjustment Value* IE indicates the timing correction within a Frame for 3.84Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>>Timing Adjustment Value	M		INTEGER (01048575,)	
>Steady State Phase				
>>Timing Adjustment Value	M		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	M		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)	

9.2.3.25 Time Slot Status

This parameter indicates whether the TS in the cell is active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot Status			ENUMERATED (
			Active,	
			Not Active,	
)	

9.2.3.26 Transmission Diversity Applied

Defines if Transmission Diversity on physical channels that may use closed loop transmit diversity is to be applied in a cell (see ref. [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_suppo rted, SF_Variation_NOT_ supported)	

9.2.3.26C UL Timeslot Information

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot Information		1 <maxno ofults=""></maxno>		
>Time Slot	M		9.2.3.23	
>Midamble Shift And Burst Type	M		9.2.3.7	
>TFCI Presence	M		9.2.1.57	
>UL Code Information	М		TDD UL Code Information 9.2.3.21A	

Range Bound	Explanation
maxnoofULts	Maximum number of Uplink time slots per Radio Link

9.2.3.26D UL Time Slot ISCP Info

The UL Time Slot ISCP Info IE provides information for UL Interfernce level for each time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Time Slot ISCP Info		1 <maxno ofULts></maxno 		
>Time Slot	М		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	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot Information LCR		1 <maxno ofULtsLCR ></maxno 		
>Time Slot LCR	M		9.2.3.24A	
>Midamble Shift LCR	M		9.2.3.7A	
>TFCI Presence	М		9.2.1.57	
>UL Code Information	M		TDD UL Code Information LCR 9.2.3.21B	

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 ></maxno 		
>Time Slot LCR	М		9.2.3.24A	
>UL Timeslot ISCP	M		9.2.3.26A	

Range Bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD

9.2.3.26G Uplink Synchronisation Frequency

The UL Synchronisation Frequency IE specifies the frequency of the adjustment of the uplink transmission timing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Synchronisation			INTEGER (18)	Unit: subframe
Frequency				Step: 1

9.2.3.26H Uplink Synchronisation Step Size

The *UL Synchronisation Step Size* IE specifies the step size to be used for the adjustment of the uplink transmission timing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Synchronisation Step Size			INTEGER (18)	Unit: 1/8 chip Step: 1.

9.2.3.27 USCH ID

The USCH ID uniquely identifies a USCH within a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
USCH ID			INTEGER (0255)	

9.2.3.28 USCH Information

The USCH Information IE provides information for USCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCH Information		1 <max noofUS CHs></max 			_	
>USCH ID	M		9.2.3.27		_	
>CCTrCH ID	М		9.2.3.3	UL CCTrCH in which the USCH is mapped	_	
>Transport Format Set	М		9.2.1.59	For USCH	_	
>Allocation/Retention Priority	М		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></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)	

9.3 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-PROCEDURE. & procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
    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 ::= {
```

```
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
```

```
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
                            { procedureCode id-radioLinkSetup, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** SystemInformationUpdate ***
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
```

```
INITIATING MESSAGE
                            SystemInformationUpdateRequest
    SUCCESSFUL OUTCOME
                            SystemInformationUpdateResponse
    UNSUCCESSFUL OUTCOME
                            SystemInformationUpdateFailure
    MESSAGE DISCRIMINATOR
                            { procedureCode id-systemInformationUpdate, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** Reset ***
reset NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResetRequest
    SUCCESSFUL OUTCOME
                            ResetResponse
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-reset, ddMode common }
    CRITICALITY
                            reject
-- *** CommonMeasurementInitiation ***
commonMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
                            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
```

```
PROCEDURE ID
                            { procedureCode id-radioLinkDeletion, ddMode common }
    CRITICALITY
-- *** 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
```

```
-- *** 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
```

```
-- *** 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
```

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```
{ 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 ::= {
```

```
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
```

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```
-- *** 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,
   AvailabilityStatus,
   BCCH-ModificationTime,
   BindingID,
   BlockingPriorityIndicator,
   SCTD-Indicator,
   Cause,
   CCTrCH-ID,
   CellParameterID,
   CellPortionID,
   CellSyncBurstCode,
   CellSyncBurstCodeShift,
   CellSyncBurstRepetitionPeriod,
   CellSyncBurstSIR,
   CellSyncBurstTiming,
   CellSyncBurstTimingThreshold,
   CFN,
   ChipOffset,
   C-ID,
   Closedlooptimingadjustmentmode,
```

```
CommonChannelsCapacityConsumptionLaw,
Compressed-Mode-Deactivation-Flag,
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue.
CommonMeasurementValueInformation,
CommonPhysicalChannelID,
Common-PhysicalChannel-Status-Information,
Common-TransportChannel-Status-Information,
CommonTransportChannelID,
CommonTransportChannel-InformationResponse,
CommunicationControlPortID,
ConfigurationGenerationID,
ConstantValue,
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,
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-HARO-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,
E-TFCS-Information,
E-TTI,
FDD-DL-ChannelisationCodeNumber.
FDD-DL-CodeInformation,
FDD-S-CCPCH-FrameOffset.
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
F-DPCH-Capability,
FirstRLS-Indicator,
FNReportingIndicator,
FPACH-Power,
FrameAdjustmentValue,
FrameHandlingPriority,
FrameOffset,
HARQ-Info-for-E-DCH,
HSDPA-Capability,
HSDSCH-Configured-Indicator,
HS-DSCH-Serving-Cell-Change-Info,
HS-DSCH-Serving-Cell-Change-Info-Response,
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,
LimitedPowerIncrease,
Local-Cell-ID,
MaximumDL-PowerCapability,
Maximum-Target-ReceivedTotalWideBandPower,
MaximumTransmissionPower,
MaxNrOfUL-DPDCHs,
Max-Set-E-DPDCHs,
MaxPRACH-MidambleShifts,
MeasurementFilterCoefficient,
MeasurementID.
MeasurementRecoveryBehavior,
MeasurementRecoveryReportingIndicator,
MeasurementRecoverySupportIndicator,
MICH-CFN,
MICH-Mode,
MidambleAllocationMode,
MidambleShiftAndBurstType,
MidambleShiftLCR,
MinimumDL-PowerCapability,
MinSpreadingFactor,
MinUL-ChannelisationCodeLength,
Modification-Period,
MultiplexingPosition,
NCyclesPerSFNperiod,
NRepetitionsPerCyclePeriod,
N-INSYNC-IND,
N-OUTSYNC-IND,
NeighbouringCellMeasurementInformation,
NeighbouringFDDCellMeasurementInformation,
NeighbouringTDDCellMeasurementInformation,
NI-Information,
NodeB-CommunicationContextID,
NotificationIndicatorLength,
NumberOfReportedCellPortions,
NSubCyclesPerCyclePeriod,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
PICH-Power,
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.
QE-Selector,
RACH-SlotFormat,
RACH-SubChannelNumbers,
Reference-ReceivedTotalWideBandPower,
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,
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-DL-Code-LCR-Information.
TDD-DPCHOffset,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TDD-UL-Code-LCR-Information,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TimeSlot,
TimeSlotLCR.
TimeSlotDirection,
TimeSlotStatus,
TimingAdjustmentValue,
TimingAdvanceApplied,
TnlOos,
TOAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportBearerRequestIndicator,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
TUTRANGPS,
TUTRANGPSChangeLimit,
TUTRANGPSDriftRate,
TUTRANGPSDriftRateQuality,
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,
```

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HSDSCH-Information-to-Modify-Unsynchronised,
    HSDSCH-MACdFlow-ID.
    HSDSCH-MACdFlows-Information.
    HSDSCH-MACdFlows-to-Delete.
    HSDSCH-RNTI.
    HSDSCH-TDD-Information,
    HSDSCH-TDD-Information-Response,
    PrimarvCCPCH-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
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-ReconfRqstTDD,
    id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRgstTDD,
    id-AdjustmentRatio,
    id-AICH-Information,
    id-AICH-ParametersListIE-CTCH-ReconfRgstFDD,
    id-BCH-Information,
    id-BCCH-ModificationTime,
    id-bindingID,
    id-BlockingPriorityIndicator,
    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,
```

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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-SetupRgstTDD,
id-CellAdjustmentInfo-SyncAdjustmntRgstTDD,
id-CellAdjustmentInfoItem-SyncAdjustmentRgstTDD,
id-Cell-InformationItem-AuditRsp.
id-Cell-InformationItem-ResourceStatusInd.
id-Cell-InformationList-AuditRsp.
id-CellParameterID,
id-CellPortion-InformationItem-Cell-SetupRqstFDD,
id-CellPortion-InformationList-Cell-SetupRqstFDD,
id-CellPortion-InformationItem-Cell-ReconfRgstFDD,
id-CellPortion-InformationList-Cell-ReconfRgstFDD,
id-CellSyncBurstTransInit-CellSyncInitiationRgstTDD,
id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD,
id-cellSyncBurstRepetitionPeriod,
id-CellSyncBurstTransReconfiguration-CellSyncReconfRgstTDD,
id-CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD,
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRgstTDD,
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,
id-CellSyncInfo-CellSyncReprtTDD,
id-CFN.
id-CFNReportingIndicator,
id-C-ID,
id-Closed-Loop-Timing-Adjustment-Mode,
id-CommonMeasurementAccuracy,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rgst,
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-CRNC-CommunicationContextID,
id-CriticalityDiagnostics,
id-CSBTransmissionID,
id-CSBMeasurementID,
id-DCHs-to-Add-FDD,
id-DCHs-to-Add-TDD.
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRgstTDD,
id-DCH-FDD-Information,
id-DCH-TDD-Information,
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id-DCH-Indicator-For-E-DCH-HSDPA-Operation,
id-DCH-InformationResponse.
id-DCH-RearrangeList-Bearer-RearrangeInd.
id-DSCH-RearrangeList-Bearer-RearrangeInd,
id-FDD-DCHs-to-Modify.
id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRgstFDD,
id-TDD-DCHs-to-Modify,
id-DedicatedMeasurementObjectTvpe-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DelayedActivation,
id-DelayedActivationList-RL-ActivationCmdFDD,
id-DelayedActivationList-RL-ActivationCmdTDD,
id-DelayedActivationInformation-RL-ActivationCmdFDD,
id-DelayedActivationInformation-RL-ActivationCmdTDD,
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD,
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationItem-RL-AdditionRgstTDD,
id-DL-DPCH-InformationList-RL-SetupRgstTDD,
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-ReconfRqstFDD,
id-DL-DPCH-Information-RL-SetupRgstFDD,
id-DL-DPCH-TimingAdjustment,
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD,
id-DL-PowerBalancing-Information,
id-DL-PowerBalancing-ActivationIndicator,
id-DL-ReferencePowerInformationItem-DL-PC-Rgst,
id-DL-PowerBalancing-UpdatedIndicator,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rgst,
id-DL-TPC-Pattern01Count,
id-DPC-Mode,
id-DPCHConstant,
id-DSCHs-to-Add-TDD,
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,
id-DSCH-InformationResponse,
id-DSCH-TDD-Information,
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code,
id-E-AGCH-FDD-Code-Information,
id-E-DCH-Capability,
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id-E-DCH-TTI2ms-Capability,
id-E-DCH-SF-Capability,
id-E-DCH-HARO-Combining-Capability.
id-E-DCH-FDD-DL-Control-Channel-Information.
id-E-DCH-FDD-Information.
id-E-DCH-FDD-Information-Response,
id-E-DCH-FDD-Information-to-Modify,
id-E-DCH-FDD-Update-Information,
id-E-DCH-MACdFlows-to-Add,
id-E-DCH-MACdFlows-to-Delete,
id-E-DCH-RearrangeList-Bearer-RearrangeInd,
id-E-DCH-Resources-Information-AuditRsp,
id-E-DCH-Resources-Information-ResourceStatusInd.
id-E-DCH-RL-Indication.
id-E-DCH-RL-Set-ID.
id-E-DCH-Serving-Cell-Change-Info-Response,
id-E-DCH-CapacityConsumptionLaw,
id-E-DPCH-Information-RL-ReconfPrepFDD,
id-E-DPCH-Information-RL-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-FACH-Information,
id-FACH-ParametersList-CTCH-ReconfRgstTDD,
id-FACH-ParametersList-CTCH-SetupRsp,
id-FACH-ParametersListIE-CTCH-ReconfRgstFDD,
id-FACH-ParametersListIE-CTCH-SetupRgstFDD,
id-FACH-ParametersListIE-CTCH-SetupRgstTDD,
id-F-DPCH-Capability,
id-F-DPCH-Information-RL-ReconfPrepFDD,
id-F-DPCH-Information-RL-SetupRqstFDD,
id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRost,
id-HSDSCH-Configured-Indicator,
id-HS-DSCH-Serving-Cell-Change-Info.
id-HS-DSCH-Serving-Cell-Change-Info-Response,
id-IndicationType-ResourceStatusInd,
id-InformationExchangeID,
id-InformationExchangeObjectType-InfEx-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-ReconfRgstFDD,
id-IPDLParameter-Information-Cell-SetupRgstFDD,
id-IPDLParameter-Information-Cell-ReconfRgstTDD,
id-IPDLParameter-Information-Cell-SetupRgstTDD,
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD,
id-Limited-power-increase-information-Cell-SetupRqstFDD,
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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-MeasurementFilterCoefficient.
id-MeasurementID.
id-MeasurementRecoveryBehavior,
id-MeasurementRecoveryReportingIndicator,
id-MeasurementRecoverySupportIndicator,
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRgst,
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-SetupRgstFDD,
id-MICH-Parameters-CTCH-SetupRqstTDD,
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-P-CCPCH-Information,
id-P-CPICH-Information,
id-P-SCH-Information,
id-PCCPCH-Information-Cell-ReconfRqstTDD,
id-PCCPCH-Information-Cell-SetupRqstTDD,
id-PCH-Parameters-CTCH-ReconfRgstTDD,
id-PCH-Parameters-CTCH-SetupRsp,
id-PCH-ParametersItem-CTCH-ReconfRgstFDD,
id-PCH-ParametersItem-CTCH-SetupRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRgstTDD,
id-PCH-Information,
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,
id-PDSCH-Information-AddListIE-PSCH-ReconfRgst,
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PDSCH-RL-ID,
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id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR,
id-PDSCHSets-AddList-PSCH-ReconfRast.
id-PDSCHSets-DeleteList-PSCH-ReconfRast.
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,
id-PICH-Information.
id-PICH-Parameters-CTCH-ReconfRgstTDD,
id-PICH-ParametersItem-CTCH-SetupRgstTDD.
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-SetupRqstTDD,
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-SetupRgstFDD,
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,
id-PrimaryCPICH-Information-Cell-SetupRgstFDD,
id-Primary-CPICH-Usage-for-Channel-Estimation,
id-PrimarySCH-Information-Cell-ReconfRgstFDD,
id-PrimarySCH-Information-Cell-SetupRgstFDD,
id-PrimaryScramblingCode,
id-SCH-Information-Cell-ReconfRgstTDD,
id-SCH-Information-Cell-SetupRqstTDD,
id-PUSCH-Information-AddListIE-PSCH-ReconfRast,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Timeslot-Format-PSCH-ReconfRast-LCR,
id-PUSCHConstant,
id-PUSCHSets-AddList-PSCH-ReconfRast,
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,
id-RACH-Information,
id-RACH-Parameters-CTCH-SetupRsp,
id-RACH-ParametersItem-CTCH-SetupRgstFDD,
id-RACH-ParameterItem-CTCH-SetupRgstTDD,
id-ReferenceClockAvailability,
id-ReferenceSFNoffset,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-ResetIndicator,
id-RL-ID,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rgst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-AdditionRqstFDD,
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id-RL-informationItem-RL-DeletionRqst,
id-RL-InformationItem-RL-FailureInd.
id-RL-InformationItem-RL-PreemptRequiredInd.
id-RL-InformationItem-RL-ReconfPrepFDD,
id-RL-InformationItem-RL-ReconfRastFDD.
id-RL-InformationItem-RL-RestoreInd,
id-RL-InformationItem-RL-SetupRgstFDD,
id-RL-InformationList-RL-AdditionRgstFDD,
id-RL-informationList-RL-DeletionRgst,
id-RL-InformationList-RL-PreemptRequiredInd,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationList-RL-ReconfRqstFDD,
id-RL-InformationList-RL-SetupRgstFDD,
id-RL-InformationResponseItem-RL-AdditionRspFDD.
id-RL-InformationResponseItem-RL-ReconfReady,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReady,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-Information-RL-AdditionRgstTDD,
id-RL-Information-RL-ReconfRqstTDD,
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-ReconfRqstTDD,
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD,
id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD,
id-Secondary-CPICH-Information,
id-SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD,
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,
id-SecondaryCPICH-InformationList-Cell-SetupRgstFDD,
id-Secondary-CPICH-Information-Change,
id-SecondarySCH-Information-Cell-ReconfRgstFDD,
id-SecondarySCH-Information-Cell-SetupRqstFDD,
id-SegmentInformationListIE-SystemInfoUpdate,
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id-Serving-Cell-Change-CFN,
id-Serving-E-DCH-RL-ID.
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-ReconfRqst,
id-Synchronisation-Configuration-Cell-SetupRqst,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH,
id-SyncFrameNumber,
id-SynchronisationReportType,
id-SynchronisationReportCharacteristics,
id-SyncReportType-CellSyncReprtTDD,
id-T-Cell.
id-TargetCommunicationControlPortID,
id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRgstTDD,
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,
id-timeslotInfo-CellSyncInitiationRqstTDD,
id-TimeslotISCPInfo,
id-TimingAdvanceApplied,
id-TnlOos.
id-TransmissionDiversityApplied,
id-transportlayeraddress,
id-Tstd-indicator,
id-UARFCNforNt,
id-UARFCNforNd,
id-UARFCNforNu,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD.
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRgstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-SetupRgstTDD,
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRgstFDD,
id-UL-DPDCH-Indicator-For-E-DCH-Operation,
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,
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id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD.
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD.
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD.
id-USCH-Information-Add,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
id-USCH-InformationResponse,
id-USCH-Information.
id-USCH-RearrangeList-Bearer-RearrangeInd,
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD,
id-DwPCH-LCR-Information
id-DwPCH-LCR-InformationList-AuditRsp.
id-DwPCH-LCR-Information-Cell-SetupRgstTDD,
id-DwPCH-LCR-Information-Cell-ReconfRgstTDD,
id-DwPCH-LCR-Information-ResourceStatusInd,
id-maxFACH-Power-LCR-CTCH-SetupRgstTDD,
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,
id-FPACH-LCR-Information,
id-FPACH-LCR-Information-AuditRsp.
id-FPACH-LCR-InformationList-AuditRsp,
id-FPACH-LCR-InformationList-ResourceStatusInd,
id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD,
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,
id-PCCPCH-LCR-Information-Cell-SetupRgstTDD,
id-PCH-Power-LCR-CTCH-SetupRgstTDD,
id-PCH-Power-LCR-CTCH-ReconfRgstTDD,
id-PICH-LCR-Parameters-CTCH-SetupRgstTDD,
id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD,
id-RL-InformationResponse-LCR-RL-SetupRspTDD
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,
id-TimeSlot,
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD,
id-TimeslotISCP-LCR-InfoList-RL-SetupRgstTDD,
id-TimeSlotLCR-CM-Rast,
id-UL-DPCH-LCR-Information-RL-SetupRgstTDD,
id-DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD,
id-UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD,
id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD,
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,
id-TimeslotISCPInfoList-LCR-DL-PC-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-ReconfRgst,
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,
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id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRgst,
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-Reconfrast.
id-PUSCH-Info-DM-Rqst.
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-ReconfRqstTDD,
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-ReconfRqst,
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRgst,
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-ReconfRgst,
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD,
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD,
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD,
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRgstTDD,
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD,
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD,
id-NSubCvclesPerCvclePeriod-CellSvncReconfRastTDD.
id-DwPCH-Power,
id-AccumulatedClockupdate-CellSyncReprtTDD,
id-HSDPA-Capability,
id-HSDSCH-FDD-Information,
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-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-Rgst,
id-HSSICH-Info-DM-Rsp,
id-PrimCCPCH-RSCP-DL-PC-RgstTDD,
id-HSDSCH-FDD-Update-Information,
id-HSDSCH-TDD-Update-Information,
id-UL-Synchronisation-Parameters-LCR,
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
id-CCTrCH-Maximum-DL-Power-RL-SetupRgstTDD,
id-CCTrCH-Minimum-DL-Power-RL-SetupRgstTDD,
id-CCTrCH-Maximum-DL-Power-RL-AdditionRgstTDD,
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD,
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD,
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maxNrOfReceptsPerSyncFrame,

```
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-ReconfRgstTDD,
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRgstTDD,
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-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-tFCI-Presence,
id-ueCapability-Info,
maxNrOfCCTrCHs,
maxNrOfCellSyncBursts,
maxNrOfCodes,
maxNrOfDCHs,
maxNrOfDLTSs.
maxNrOfDLTSLCRs.
maxNrOfDPCHs,
maxNrOfDPCHsPerRL-1,
maxNrOfDPCHLCRs,
maxNrOfDPCHsLCRPerRL-1,
maxNrOfDSCHs.
maxNrOfFACHs,
maxNrOfRLs.
maxNrOfRLs-1,
maxNrOfRLs-2,
maxNrOfRLSets.
maxNrOfPDSCHs.
maxNrOfPUSCHs.
maxNrOfPUSCHs-1,
maxNrOfPRACHLCRs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
```

```
maxNrOfSCCPCHs,
    maxNrOfSCCPCHsinExt,
    maxNrOfSCCPCHLCRs,
    maxNrOfSCCPCHsLCRinExt,
    maxNrOfULTSs,
    maxNrOfULTSLCRs,
    maxNrOfUSCHs,
    maxFACHCell.
    maxFPACHCell,
    maxNoofLen,
    maxRACHCell,
    maxPRACHCell,
    maxSCCPCHCell,
    maxSCCPCHCellinExt,
    maxSCCPCHCellinExtLCR,
    maxSCPICHCell,
    maxCellinNodeB,
    maxCCPinNodeB,
    maxCommunicationContext,
    maxLocalCellinNodeB,
    maxNrOfSlotFormatsPRACH,
    maxIB,
    maxIBSEG,
    maxNrOfCellPortionsPerCell,
    maxNrOfHSSCCHs,
    maxNrOfHSSICHs,
    maxNrOfHSSICHs-1,
    maxNrOfHSPDSCHs,
    maxNrOfSyncFramesLCR,
    maxNrOfReceptionsperSyncFrameLCR,
    maxNrOfSyncDLCodesLCR,
    maxNrOfMACdFlows,
    maxNrOfEDCHMACdFlows
FROM NBAP-Constants;
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
CommonTransportChannelSetupRequestFDD ::= SEQUENCE
    protocolIEs
                            ProtocolIE-Container
                                                     {{CommonTransportChannelSetupRequestFDD-IEs}},
                            ProtocolExtensionContainer {{CommonTransportChannelSetupRequestFDD-Extensions}}
    protocolExtensions
                                                                                                                   OPTIONAL,
CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
           id-C-ID
                                                                 CRITICALITY reject
                                                                                          TYPE
                                                                                                  C-ID
                                                                                                                               PRESENCE mandatory
     ID
           id-ConfigurationGenerationID
                                                                 CRITICALITY reject
                                                                                          TYPE
                                                                                                  ConfigurationGenerationID
                                                                                                                               PRESENCE mandatory
```

```
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,
    secondary-CCPCH-SlotFormat
                                          SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                          TFCI-Presence OPTIONAL,
    -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17
                                          MultiplexingPosition,
   multiplexingPosition
   powerOffsetInformation
                                          PowerOffsetInformation-CTCH-SetupRgstFDD,
   sTTD-Indicator
                                          STTD-Indicator,
    fACH-Parameters
                                          FACH-ParametersList-CTCH-SetupRqstFDD
                                                                                      OPTIONAL.
                                          PCH-Parameters-CTCH-SetupRqstFDD
                                                                                     OPTIONAL,
    pCH-Parameters
                                          ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                            OPTIONAL,
Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-MICH-Parameters-CTCH-SetupRqstFDD
                                                      CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstFDD
                                                                                                                         PRESENCE optional } |
    ID id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRqstFDD CRITICALITY reject EXTENSION FDD-S-CCPCH-FrameOffset
                                                                                                                         PRESENCE optional },
    . . .
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                          PowerOffset,
   pO3-ForPilotBits
                                          PowerOffset,
                                          ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
PowerOffsetInformation-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}
FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    TYPE FACH-ParametersListIE-CTCH-SetupRgstFDD PRESENCE mandatory }
```

```
FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRgstFDD ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID,
   transportFormatSet
                                    TransportFormatSet,
   toAWS
                                    ToAWS,
   toAWE
                                    TOAWE,
   maxFACH-Power
                                    DL-Power,
   iE-Extensions
                                    OPTIONAL,
FACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ID
       id-bindingID
                                       CRITICALITY ignore
                                                             EXTENSION
                                                                        BindingID
                                                                                                         PRESENCE
                                                                                                                   optional }|
{ ID
      id-transportlayeraddress
                                       CRITICALITY ignore
                                                             EXTENSION
                                                                        TransportLayerAddress
                                                                                                         PRESENCE
                                                                                                                   optional },
PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID,
   transportFormatSet
                                    TransportFormatSet,
   toAWS
                                    ToAWS,
   toAWE
                                    ToAWE,
   pCH-Power
                                    DL-Power,
   pICH-Parameters
                                    PICH-Parameters-CTCH-SetupRgstFDD,
                                    ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                             OPTIONAL,
   . . .
PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
     ID
          id-bindingID
                                           CRITICALITY ignore
                                                                 EXTENSION
                                                                            BindingID
                                                                                                         PRESENCE
                                                                                                                   optional }|
     ID
          id-transportlayeraddress
                                           CRITICALITY ignore
                                                                            TransportLayerAddress
                                                                                                         PRESENCE
                                                                                                                   optional },
                                                                 EXTENSION
PICH-Parameters-CTCH-SetupRqstFDD ::= 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-SetupRqstFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
MICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   fdd-dl-ChannelisationCodeNumber
                                      FDD-DL-ChannelisationCodeNumber,
   mTCH-Power
                                      PICH-Power,
   mICH-Mode
                                      MICH-Mode,
   sTTD-Indicator
                                      STTD-Indicator.
   iE-Extensions
                                      OPTIONAL,
MICH-Parameters-CTCH-SetupRqstFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-CTCH-SetupRgstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   scramblingCodeNumber
                                      ScramblingCodeNumber,
                                      TFCS,
                                      PreambleSignatures,
   preambleSignatures
   allowedSlotFormatInformation
                                      AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
   rACH-SubChannelNumbers
                                      RACH-SubChannelNumbers.
                                      PunctureLimit,
   ul-punctureLimit
   preambleThreshold
                                      PreambleThreshold.
   rACH-Parameters
                                      RACH-Parameters-CTCH-SetupRqstFDD,
   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-SetupRgstFDD-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,
   transportFormatSet
                                            TransportFormatSet,
   iE-Extensions
                                            ProtocolExtensionContainer { RACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                        OPTIONAL.
RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID
          id-bindingID
                                            CRITICALITY ignore
                                                                  EXTENSION
                                                                             BindingID
                                                                                                           PRESENCE
                                                                                                                      optional }|
          id-transportlayeraddress
                                            CRITICALITY ignore
     ID
                                                                  EXTENSION
                                                                             TransportLayerAddress
                                                                                                           PRESENCE
                                                                                                                     optional },
   . . .
AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                            CommonPhysicalChannelID,
   aICH-TransmissionTiming
                                            AICH-TransmissionTiming,
   fdd-dl-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
   aICH-Power
                                            AICH-Power,
   sTTD-Indicator
                                            STTD-Indicator,
                                            ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                      OPTIONAL,
AICH-Parameters-CTCH-SetupRqstFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
  COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
__ *********************
CommonTransportChannelSetupRequestTDD ::= SEQUENCE {
                                                {{CommonTransportChannelSetupRequestTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{CommonTransportChannelSetupRequestTDD-Extensions}}
                                                                                                             OPTIONAL,
CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                                       CRITICALITY reject TYPE C-ID
                                                                                                                PRESENCE mandatory
          id-ConfigurationGenerationID
     ID
                                                       CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                PRESENCE mandatory
          ID
                                                                                                                           PRESENCE
   mandatory },
   . . .
CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
   secondary-CCPCH-parameters
                                            Secondary-CCPCH-CTCH-SetupRqstTDD,
   pRACH-parameters
                                            PRACH-CTCH-SetupRqstTDD,
```

```
Secondary-CCPCH-CTCH-SetupRgstTDD ::= SEQUENCE {
   sCCPCH-CCTrCH-ID
                                           CCTrCH-ID, -- For DL CCTrCH supporting one or several Secondary CCPCHs
   t.FCS
                                                       -- For DL CCTrCH supporting one or several Secondary CCPCHs
   tFCI-Coding
                                           TFCI-Coding,
   punctureLimit
                                           PunctureLimit,
   secondaryCCPCH-parameterList
                                           Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
                                           FACH-ParametersList-CTCH-SetupRqstTDD
   fACH-ParametersList
                                                                                    OPTIONAL,
   pCH-Parameters
                                           PCH-Parameters-CTCH-SetupRqstTDD
                                                                                    OPTIONAL,
   iE-Extensions
                                           ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}
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-SetupRqstTDD
                                                                                                                  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-SetupRqstTDD
                                                             CRITICALITY reject EXTENSION Secondary-CCPCH-LCR-parameterExtendedList-CTCH-
SetupRqstTDD
                  PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHLCRs SCCPCHs are to be established.
Secondary-CCPCH-parameterList-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRgstTDD }}
Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    PRESENCE optional } |
    { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD
   PRESENCE optional }
Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
                                           CommonPhysicalChannelID,
   commonPhysicalChannelID
   tdd-ChannelisationCode
                                           TDD-ChannelisationCode,
   timeslot
                                           TimeSlot,
   midambleShiftandBurstType
                                           MidambleShiftAndBurstType,
   tdd-PhysicalChannelOffset
                                           TDD-PhysicalChannelOffset,
   repetitionPeriod
                                           RepetitionPeriod,
   repetitionLength
                                           RepetitionLength,
   s-CCPCH-Power
                                           DL-Power,
   iE-Extensions
                                           OPTIONAL,
   . . .
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-tFCI-Presence
                                           CRITICALITY notify EXTENSION TFCI-Presence
                                                                                       PRESENCE optional },
```

```
FACH-ParametersList-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRgstTDD }}
FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD
FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                   CommonTransportChannelID,
   fACH-CCTrCH-ID
                                    CCTrCH-ID,
   dl-TransportFormatSet
                                   TransportFormatSet,
   t.oAWS
                                    ToAWS,
   t.oAWE
                                    TOAWE,
                                    iE-Extensions
                                                                                                        OPTIONAL,
FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power
                                                                                               PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
   { ID id-bindingID
                                          CRITICALITY ignore EXTENSION BindingID
                                                                                               PRESENCE optional } |
   -- Shall be ignored if bearer establishment with ALCAP.
                                          CRITICALITY ignore EXTENSION TransportLayerAddress
   { ID id-transportlayeraddress
                                                                                               PRESENCE optional },
   -- Shall be ignored if bearer establishment with ALCAP.
PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}
PCH-ParametersIE-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
   PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                   CommonTransportChannelID,
   pCH-CCTrCH-ID
                                    CCTrCH-ID,
                                   TransportFormatSet, -- For the DL.
   dl-TransportFormatSet
   t.oAWS
                                    ToAWS,
                                   TOAWE,
   toAWE
                                   PICH-Parameters-CTCH-SetupRqstTDD,
   pICH-Parameters
   iE-Extensions
                                    OPTIONAL,
PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ID id-PCH-Power-LCR-CTCH-SetupRgstTDD
                                             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 id-transportlayeraddress
                                             CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                               PRESENCE optional },
   -- Shall be ignored if bearer establishment with ALCAP.
```

```
PICH-Parameters-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRgstTDD }}
PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
     PICH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   tdd-ChannelisationCode
                                      TDD-ChannelisationCode,
   timeSlot
                                      TimeSlot.
   midambleshiftAndBurstType
                                      MidambleShiftAndBurstType,
   tdd-PhysicalChannelOffset
                                      TDD-PhysicalChannelOffset,
   repetitionPeriod
                                      RepetitionPeriod,
   repetitionLength
                                      RepetitionLength,
   pagingIndicatorLength
                                      PagingIndicatorLength,
                                      PICH-Power,
   pICH-Power
   iE-Extensions
                                      ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
                                                                                                                OPTIONAL,
   . . .
PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-LCR-Parameters-CTCH-SetupRgstTDD ::= SEQUENCE
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   tdd-ChannelisationCodeLCR
                                      TDD-ChannelisationCodeLCR,
   timeSlotLCR
                                      TimeSlotLCR,
   midambleShiftLCR
                                      MidambleShiftLCR,
   tdd-PhysicalChannelOffset
                                      TDD-PhysicalChannelOffset,
   repetitionPeriod
                                      RepetitionPeriod,
   repetitionLength
                                      RepetitionLength,
   pagingIndicatorLength
                                      PagingIndicatorLength,
                                      PICH-Power,
   pICH-Power
   second-TDD-ChannelisationCodeLCR
                                      TDD-ChannelisationCodeLCR,
   iE-Extensions
                                      ProtocolExtensionContainer { { PICH-LCR-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     id-Tstd-indicator
                               CRITICALITY reject
                                                                                                      optional }.
                                                    EXTENSION TSTD-Indicator
                                                                                 PRESENCE
   -- Applicable to 1.28 Mcps TDD only
   . . .
Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-
SetupRqstTDD
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE
                                          CommonPhysicalChannelID,
   commonPhysicalChannelID
```

```
tdd-ChannelisationCodeLCR
                                              TDD-ChannelisationCodeLCR,
    timeslotLCR
                                              TimeSlotLCR.
   midambleShiftLCR
                                              MidambleShiftLCR.
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset,
    repetitionPeriod
                                              RepetitionPeriod,
                                              RepetitionLength,
    repetitionLength
    s-CCPCH-Power
                                              DL-Power,
    s-CCPCH-TimeSlotFormat-LCR
                                              TDD-DL-DPCH-TimeSlotFormat-LCR,
   iE-Extensions
                                              ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs} }
   OPTIONAL,
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-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,
   iE-Extensions
                                          ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MICH-TDDOption-Specific-Parameters-CTCH-SetupRqstTDD ::= CHOICE {
                                          MICH-HCR-Parameters-CTCH-SetupRgstTDD,
   hCR-TDD
   1CR-TDD
                                          MICH-LCR-Parameters-CTCH-SetupRqstTDD,
    . . .
MICH-HCR-Parameters-CTCH-SetupRgstTDD ::= SEQUENCE
    tdd-ChannelisationCode
                                          TDD-ChannelisationCode,
   timeSlot
                                          TimeSlot,
   midambleshiftAndBurstType
                                          MidambleShiftAndBurstType,
                                          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,
    second-TDD-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR.
    tSTD-Indicator
                                          TSTD-Indicator.
   iE-Extensions
                                          ProtocolExtensionContainer { { MICH-LCR-Parameters-CTCH-SetupRgstTDD-ExtIEs } }
                                                                                                                           OPTIONAL.
MICH-LCR-Parameters-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-parameterExtendedList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCH-parameterItem-CTCH-
    -- 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-
CTCH-SetupRqstTDD
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHLCRs SCCPCHs are to be established.
PRACH-CTCH-SetupRgstTDD ::= SEQUENCE {
   pRACH-Parameters-CTCH-SetupRqstTDD
                                              PRACH-Parameters-CTCH-SetupRqstTDD,
                                              ProtocolExtensionContainer { { PRACH-CTCH-SetupRqstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL,
PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-SetupRgstTDD PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
PRACH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRqstTDD }}
PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
                                                    CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRqstTDD
     ID id-PRACH-ParametersItem-CTCH-SetupRgstTDD
                                                                                                                        PRESENCE optional } |
     ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional
PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                              CommonPhysicalChannelID,
   t.FCS
                                              TFCS,
   timeslot
                                              TimeSlot,
    tdd-ChannelisationCode
                                              TDD-ChannelisationCode,
   maxPRACH-MidambleShifts
                                              MaxPRACH-MidambleShifts,
   pRACH-Midamble
                                              PRACH-Midamble,
   rACH
                                              RACH-Parameter-CTCH-SetupRgstTDD,
   iE-Extensions
                                              OPTIONAL,
PRACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
RACH-Parameter-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRgstTDD }}
RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-RACH-ParameterItem-CTCH-SetupRgstTDD CRITICALITY reject TYPE RACH-ParameterItem-CTCH-SetupRgstTDD PRESENCE mandatory }
RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                               CommonTransportChannelID,
    uL-TransportFormatSet
                                               TransportFormatSet, -- For the UL
    iE-Extensions
                                               ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-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.
    { ID id-transportlayeraddress
                                       CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                               PRESENCE optional },
       -- Shall be ignored if bearer establishment with ALCAP.
PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    t.FCS
                                               TFCS,
    timeslotLCR
                                               TimeSlotLCR,
    tdd-ChannelisationCodeLCR
                                               TDD-ChannelisationCodeLCR,
    midambleShiftLCR
                                               MidambleShiftLCR,
    rACH
                                               RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions
                                               ProtocolExtensionContainer { { PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
                                                                                                                                      OPTIONAL,
    . . .
PRACH-LCR-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-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ **********************
```

```
COMMON TRANSPORT CHANNEL SETUP RESPONSE
__ **********************
CommonTransportChannelSetupResponse ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                               {{CommonTransportChannelSetupResponse-IEs}},
   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}}
                                                                                                   OPTIONAL,
   protocolExtensions
CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-Cause
                                    CRITICALITY ignore
                                                         TYPE
                                                                 Cause
                                                                                                        PRESENCE mandatory
   { ID
          TYPE
                                                                 CriticalityDiagnostics
                                                                                                        PRESENCE optional
   . . .
CommonTransportChannelSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
  ***********************
CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {
```

```
{{CommonTransportChannelReconfigurationRequestFDD-IEs}},
                            ProtocolIE-Container
    protocolIEs
   protocolExtensions
                            ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}}
                                                                                                                          OPTIONAL.
CommonTransportChannelReconfigurationRequestFDD-IES NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID
                                                            CRITICALITY reject TYPE C-ID
                                                                                                                                 PRESENCE mandatory
} |
     ID id-ConfigurationGenerationID
                                                            CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                                 PRESENCE mandatory
    { ID id-CommonPhysicalChannelType-CTCH-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-ReconfRgstFDD
                                                FACH-ParametersList-CTCH-ReconfRgstFDD OPTIONAL,
    pCH-Parameters-CTCH-ReconfRgstFDD
                                                PCH-Parameters-CTCH-ReconfRgstFDD
                                                                                         OPTIONAL,
    pICH-Parameters-CTCH-ReconfRqstFDD
                                                PICH-Parameters-CTCH-ReconfRqstFDD
                                                                                        OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRgstFDD-ExtIEs} } OPTIONAL,
Secondary-CCPCH-CTCH-ReconfrastFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MICH-Parameters-CTCH-ReconfRqstFDD
                                                    CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRqstFDD
                                                                                                                             PRESENCE optional }.
FACH-ParametersList-CTCH-ReconfRgstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRgstFDD }}
FACH-ParametersListIEs-CTCH-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,
    toAWS
                                            ToAWS
                                                            OPTIONAL,
    toAWE
                                            ToAWE
                                                            OPTIONAL,
                                            ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
```

```
FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
   toAWE
                                   ToAWE
                                                OPTIONAL,
                                   iE-Extensions
                                                                                                        OPTIONAL,
   . . .
PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-ReconfRqstFDD }}
PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
   pICH-Power
                                PICH-Power
                                            OPTIONAL,
                                ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                   OPTIONAL,
PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                               CommonPhysicalChannelID,
   mICH-Power
                                PICH-Power
                                                                                                 OPTIONAL.
                                ProtocolExtensionContainer { { MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                 OPTIONAL,
MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
```

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

```
commonPhysicalChannelID
                                     CommonPhysicalChannelID,
   aICH-Power
                                     AICH-Power
                                                    OPTIONAL.
   iE-Extensions
                                     Protocol ExtensionContainer
                                                                 { AICH-ParametersItemIE-CTCH-ReconfRgstFDD-ExtIEs} }
                                                                                                                       OPTIONAL.
AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
  ******************
CommonTransportChannelReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                               {{CommonTransportChannelReconfigurationRequestTDD-IEs}},
                          ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestTDD-Extensions}}
   protocolExtensions
CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                 CRITICALITY reject TYPE C-ID
                                                                                                               PRESENCE mandatory
                                                                                                               PRESENCE mandatory
     ID id-ConfigurationGenerationID
                                                 CRITICALITY reject TYPE ConfigurationGenerationID
     optional }|
     ID id-PICH-Parameters-CTCH-ReconfRgstTDD
                                                 CRITICALITY reject TYPE PICH-Parameters-CTCH-ReconfRqstTDD
                                                                                                               PRESENCE optional }
                                                                                                               PRESENCE optional }
     ID id-FACH-ParametersList-CTCH-ReconfRgstTDD CRITICALITY reject TYPE FACH-ParametersList-CTCH-ReconfRgstTDD
     ID id-PCH-Parameters-CTCH-ReconfRgstTDD
                                                                                                               PRESENCE optional },
                                                 CRITICALITY reject TYPE PCH-Parameters-CTCH-ReconfRqstTDD
   . . .
CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-FPACH-LCR-Parameters-CTCH-ReconfRgstTDD
                                                    CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-ReconfRgstTDD PRESENCE optional }
   -- Mandatory For 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
                                                                                                                       PRESENCE optional },
   { ID id-MICH-Parameters-CTCH-ReconfRqstTDD
                                                    CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRqstTDD
   . . .
Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD::= SEQUENCE {
   cCTrCH-ID
                                  CCTrCH-ID,
                                  Secondary-CCPCHList-CTCH-ReconfRqstTDD
   secondaryCCPCHList
   iE-Extensions
                                  ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs} } }
                                                                                                               OPTIONAL,
   . . .
Secondary-CCPCH-CTCH-ReconfRqstTDD-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-ReconfRqstTDD PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
```

```
Secondary-CCPCHList-CTCH-ReconfRgstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCHListIEs-CTCH-ReconfRgstTDD }}
Secondary-CCPCHListIEs-CTCH-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD
                                                      CRITICALITY reject TYPE Secondary-CCPCHListIE-CTCH-ReconfRqstTDD
                                                                                                                            PRESENCE mandatory }
Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD
Secondary-CCPCHItem-CTCH-ReconfRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
    sCCPCH-Power
                                        DL-Power
                                                        OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRgstTDD-ExtIEs} }
                                                                                                                            OPTIONAL,
Secondary-CCPCHItem-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRqstTDD
FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                   CommonTransportChannelID,
    toAWS
                                    ToAWS
                                                    OPTIONAL,
    toAWE
                                   ToAWE
                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRgstTDD-ExtIEs} }
                                                                                                                         OPTIONAL,
FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD
                                                      CRITICALITY reject
                                                                                    EXTENSION DL-Power
                                                                                                                       PRESENCE
                                                                                                                                  optional }.
    -- Applicable to 1.28Mcps TDD only
    . . .
PCH-Parameters-CTCH-ReconfRgstTDD ::= SEQUENCE {
    commonTransportChannelID
                                    CommonTransportChannelID,
    toAWS
                                    ToAWS
                                                    OPTIONAL,
    toAWE
                                    ToAWE
                                                    OPTIONAL,
                                    ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                      OPTIONAL,
```

```
PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PCH-Power-LCR-CTCH-ReconfRqstTDD
                                                 CRITICALITY reject
                                                                                                               PRESENCE optional },
                                                                        EXTENSION DL-Power
    ... -- Applicable to 1.28Mcps TDD only
FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID, CommonPhysicalChannelID,
    fPACHPower
                                  FPACH-Power
                                                 OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { { FPACH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                    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 ::= {
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 ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsLCRinExt)) OF Secondary-CCPCHItem-CTCH-
ReconfRqstTDD
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
  *******************
-- 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 {
   protocolIEs
                        ProtocolIE-Container
                                             {{CommonTransportChannelReconfigurationFailure-IEs}},
                        ProtocolExtensionContainer {{CommonTransportChannelReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                            OPTIONAL,
CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-Cause
                                      CRITICALITY ignore
                                                                                                       PRESENCE mandatory } |
                                                              TYPE
                                                                     Cause
          id-CriticalityDiagnostics
    ID
                                      CRITICALITY ignore
                                                              TYPE
                                                                     CriticalityDiagnostics
                                                                                                       PRESENCE optional },
   . . .
CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- COMMON TRANSPORT CHANNEL DELETION REQUEST
        ****************
CommonTransportChannelDeletionRequest ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                {{CommonTransportChannelDeletionRequest-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{CommonTransportChannelDeletionRequest-Extensions}}
                                                                                                         OPTIONAL,
CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
          id-C-ID
                                                                                                    PRESENCE mandatory }
     ID
                                         CRITICALITY reject
                                                              TYPE
                                                                     C-ID
          id-CommonPhysicalChannelID
                                         CRITICALITY reject
                                                              TYPE
                                                                     CommonPhysicalChannelID
                                                                                                    PRESENCE mandatory |
          id-ConfigurationGenerationID
                                                                                                    PRESENCE mandatory },
    ID
                                         CRITICALITY reject
                                                              TYPE
                                                                     ConfigurationGenerationID
CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  COMMON TRANSPORT CHANNEL DELETION RESPONSE
  ******************
```

```
CommonTransportChannelDeletionResponse ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                 {{CommonTransportChannelDeletionResponse-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{CommonTransportChannelDeletionResponse-Extensions}}
                                                                                                                OPTIONAL.
CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
                                         CRITICALITY
                                                                    TYPE
                                                                           CriticalityDiagnostics
                                                                                                                PRESENCE optional },
    . . .
CommonTransportChannelDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- BLOCK RESOURCE REQUEST
__ *********************
BlockResourceRequest ::= SEQUENCE {
                                                    {{BlockResourceRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{BlockResourceRequest-Extensions}}
                                                                                                        OPTIONAL,
BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
          id-C-ID
                                             CRITICALITY reject
                                                                    TYPE
                                                                                                                   PRESENCE mandatory
          id-BlockingPriorityIndicator
                                                                           BlockingPriorityIndicator
     ID
                                             CRITICALITY reject
                                                                    TYPE
                                                                                                                   PRESENCE mandatory
     ID id-ShutdownTimer
                                             CRITICALITY reject
                                                                    TYPE
                                                                           ShutdownTimer
                                                                                                                   PRESENCE conditional },
    -- The IE shall be present if the Blocking Priority Indicator IE indicates "Normal Priority"--
    . . .
BlockResourceRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  -- BLOCK RESOURCE RESPONSE
BlockResourceResponse ::= SEQUENCE {
   protocolIEs
                              ProtocolIE-Container
                                                        {{BlockResourceResponse-IEs}},
   protocolExtensions
                              ProtocolExtensionContainer {{BlockResourceResponse-Extensions}}
                                                                                                                OPTIONAL,
BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-CriticalityDiagnostics
                                         CRITICALITY
                                                                    TYPE
                                                                           CriticalityDiagnostics
                                                                                                                PRESENCE optional },
                                                        ignore
    . . .
```

```
BlockResourceResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- BLOCK RESOURCE FAILURE
__ *********************
BlockResourceFailure ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                              {{BlockResourceFailure-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{BlockResourceFailure-Extensions}}
                                                                                 OPTIONAL,
BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
         id-Cause
                                                                                                      PRESENCE mandatory } |
                                     CRITICALITY
                                                  ignore
                                                            TYPE
                                                                   Cause
   { ID
         id-CriticalityDiagnostics
                                     CRITICALITY
                                                  ignore
                                                            TYPE
                                                                   CriticalityDiagnostics
                                                                                                    PRESENCE optional },
   . . .
BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- UNBLOCK RESOURCE INDICATION
        **************
UnblockResourceIndication ::= SEOUENCE {
                                           {{UnblockResourceIndication-IEs}},
   protocolIEs
               ProtocolIE-Container
                       ProtocolExtensionContainer {{UnblockResourceIndication-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
UnblockResourceIndication-IES NBAP-PROTOCOL-IES ::= {
                       CRITICALITY
                                               TYPE
                                                     C-ID
                                                                PRESENCE
                                                                          mandatory },
   . . .
UnblockResourceIndication-Extensions NBAP-PROTOCOL-EXTENSION ::=
  *****************
-- AUDIT REQUIRED INDICATION
__ **********************
```

```
AuditRequiredIndication ::= SEQUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                    {{AuditRequiredIndication-IEs}},
    protocolExtensions
                            ProtocolExtensionContainer {{AuditRequiredIndication-Extensions}}
                                                                                                                    OPTIONAL,
AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
AuditRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- AUDIT REQUEST
AuditRequest ::= SEQUENCE {
                                                        {{AuditRequest-IEs}},
    protocolIEs
                                ProtocolIE-Container
                                ProtocolExtensionContainer {{AuditRequest-Extensions}}
   protocolExtensions
                                                                                            OPTIONAL.
AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID
           id-Start-Of-Audit-Sequence-Indicator
                                                        CRITICALITY
                                                                        reject TYPE Start-Of-Audit-Sequence-Indicator
                                                                                                                         PRESENCE mandatory },
AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- AUDIT RESPONSE
AuditResponse ::= SEQUENCE {
                                                        {{AuditResponse-IEs}},
    protocolIEs
                                ProtocolIE-Container
                                ProtocolExtensionContainer {{AuditResponse-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
     ID id-End-Of-Audit-Sequence-Indicator
                                                        CRITICALITY ignore TYPE End-Of-Audit-Sequence-Indicator
                                                                                                                             PRESENCE mandatory } |
     ID id-Cell-InformationList-AuditRsp
                                                        CRITICALITY ignore TYPE Cell-InformationList-AuditRsp
                                                                                                                             PRESENCE optional
     ID id-CCP-InformationList-AuditRsp
                                                        CRITICALITY ignore TYPE CCP-InformationList-AuditRsp
                                                                                                                             PRESENCE optional }
    -- CCP (Communication Control Port) --
    { ID id-Local-Cell-InformationList-AuditRsp
                                                        CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp
                                                                                                                             PRESENCE optional }
```

```
ID id-Local-Cell-Group-InformationList-AuditRsp
                                                        CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp PRESENCE optional }
     ID id-CriticalityDiagnostics
                                                        CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                              PRESENCE optional },
    . . .
AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-AuditRsp
    PRESENCE optional }.
Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}
Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
           id-Cell-InformationItem-AuditRsp
                                                    CRITICALITY ignore
                                                                            TYPE Cell-InformationItem-AuditRsp
                                                                                                                           PRESENCE optional }
Cell-InformationItem-AuditRsp ::= SEQUENCE
                                            C-ID,
    configurationGenerationID
                                            ConfigurationGenerationID,
    resourceOperationalState
                                            ResourceOperationalState,
    availabilityStatus
                                            AvailabilityStatus,
    local-Cell-ID
                                            Local-Cell-ID,
    primary-SCH-Information
                                            P-SCH-Information-AuditRsp
                                                                                         OPTIONAL,
    secondary-SCH-Information
                                            S-SCH-Information-AuditRsp
                                                                                         OPTIONAL,
    primary-CPICH-Information
                                            P-CPICH-Information-AuditRsp
                                                                                         OPTIONAL,
                                            S-CPICH-InformationList-AuditRsp
    secondary-CPICH-InformationList
                                                                                         OPTIONAL,
    primary-CCPCH-Information
                                            P-CCPCH-Information-AuditRsp
                                                                                         OPTIONAL,
    bCH-Information
                                            BCH-Information-AuditRsp
                                                                                         OPTIONAL,
    secondary-CCPCH-InformationList
                                            S-CCPCH-InformationList-AuditRsp
                                                                                         OPTIONAL,
    pCH-Information
                                            PCH-Information-AuditRsp
                                                                                         OPTIONAL,
    pICH-Information
                                            PICH-Information-AuditRsp
                                                                                         OPTIONAL,
    fACH-InformationList
                                            FACH-InformationList-AuditRsp
                                                                                         OPTIONAL,
    pRACH-InformationList
                                            PRACH-InformationList-AuditRsp
                                                                                         OPTIONAL,
    rACH-InformationList
                                            RACH-InformationList-AuditRsp
                                                                                         OPTIONAL,
    aICH-InformationList
                                            AICH-InformationList-AuditRsp
                                                                                         OPTIONAL,
    notUsed-1-pCPCH-InformationList
                                            NULL
                                                                                         OPTIONAL,
    notUsed-2-cPCH-InformationList
                                            NULL
                                                                                         OPTIONAL,
    notUsed-3-aP-AICH-InformationList
                                            NULL
                                                                                         OPTIONAL,
    notUsed-4-cDCA-ICH-InformationList
                                            NULL
                                                                                         OPTIONAL,
    sCH-Information
                                            SCH-Information-AuditRsp
                                                                                         OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { Cell-InformationItem-AuditRsp-ExtIEs} }
                                                                                                                       OPTIONAL.
Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-FPACH-LCR-InformationList-AuditRsp
                                                    CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-AuditRsp
                                                                                                                              PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
    { ID id-DwPCH-LCR-InformationList-AuditRsp
                                                    CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
      ID id-HSDSCH-Resources-Information-AuditRsp
                                                    CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-AuditRsp
                                                                                                                              PRESENCE optional
      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 },
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 ::= {
   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 ::= SEOUENCE (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
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,
   iE-Extensions
                              ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}
                                                                                           OPTIONAL,
CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}
```

```
FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FPACH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                       PRESENCE mandatory
HS-DSCH-Resources-Information-AuditRsp ::= SEQUENCE {
    resourceOperationalState
                                        ResourceOperationalState,
    availabilitvStatus
                                        AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-AuditRsp-ExtIEs }}
                                                                                                                             OPTIONAL,
HS-DSCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
S-CCPCH-InformationListExt-AuditRsp ::= SEOUENCE (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,
    iE-Extensions
                                        ProtocolExtensionContainer {{ E-DCH-Resources-Information-AuditRsp-ExtIEs }}
                                                                                                                          OPTIONAL.
    . . .
E-DCH-Resources-Information-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,
                                                ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
```

```
Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           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
                                              CRITICALITY ignore
                                                                         EXTENSION HSDPA-Capability
                                                                                                                    PRESENCE optional }
           id-E-DCH-Capability
                                              CRITICALITY ignore
                                                                         EXTENSION E-DCH-Capability
                                                                                                                    PRESENCE optional }
           id-E-DCH-TTI2ms-Capability
                                                                         EXTENSION E-DCH-TTI2ms-Capability
                                                                                                                    PRESENCE conditional } | --
     ID
                                             CRITICALITY ignore
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-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 },
   . . .
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 },
    . . .
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 {
   protocolIEs
                         ProtocolIE-Container {{AuditFailure-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{AuditFailure-Extensions}}
                                                                                      OPTIONAL.
AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-Cause
                                             CRITICALITY
                                                            ignore
                                                                                  Cause
                                                                                                                       PRESENCE mandatory
    { ID
          id-CriticalityDiagnostics
                                            CRITICALITY
                                                           ignore
                                                                          TYPE
                                                                                  CriticalityDiagnostics
                                                                                                               PRESENCE optional },
    . . .
AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
  COMMON MEASUREMENT INITIATION REQUEST
         ****************
CommonMeasurementInitiationRequest ::= SEQUENCE {
                ProtocolIE-Container
                                                {{CommonMeasurementInitiationRequest-IEs}},
   protocolIEs
                         ProtocolExtensionContainer {{CommonMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                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
                                                CRITICALITY reject TYPE FNReportingIndicator
                                                                                                              PRESENCE mandatory } |
     ID id-SFNReportingIndicator
                                                                                                              PRESENCE optional },
    { ID id-SFN
                                                CRITICALITY reject TYPE SFN
    . . .
CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-CommonMeasurementAccuracy
                                                        CRITICALITY reject
                                                                                  EXTENSION CommonMeasurementAccuracy
                                                                                                                         PRESENCE
optional}|
```

```
ID
         id-MeasurementRecoveryBehavior
                                                 CRITICALITY ignore
                                                                        EXTENSION MeasurementRecoveryBehavior
                                                                                                           PRESENCE optional
CommonMeasurementObjectType-CM-Rgst ::= CHOICE {
   cell
                             Cell-CM-Rqst,
   rACH
                             RACH-CM-Rqst,
   notUsed-cPCH
                             NULL,
   extension-CommonMeasurementObjectType-CM-Rqst
                                              Extension-CommonMeasurementObjectType-CM-Rqst
Extension-CommonMeasurementObjectType-CM-Rqst ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RqstIE }}
Extension-CommonMeasurementObjectType-CM-RgstIE NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
Cell-CM-Rast ::= SEQUENCE {
   c-ID
                             C-ID,
                             TimeSlot
   timeSlot
                                       OPTIONAL, -- Applicable to 3.84Mcps TDD only
                             ProtocolExtensionContainer { { CellItem-CM-Rgst-ExtIEs} }
   iE-Extensions
                                                                                               OPTIONAL,
   . . .
CellItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-TimeSlotLCR-CM-Rgst
                                           CRITICALITY reject EXTENSION TimeSlotLCR
                                                                                                    PRESENCE optional } |
   -- Applicable to 1.28Mcps TDD only
   . . .
RACH-CM-Rqst ::= SEQUENCE {
   c-ID
                             C-ID,
   commonTransportChannelID
                             CommonTransportChannelID,
   iE-Extensions
                             OPTIONAL,
RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerLocalCellGroup-CM-Rgst ::= SEOUENCE {
                             Local-Cell-ID,
   powerLocalCellGroupID
   iE-Extensions
                             ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rqst-ExtIEs }}
                                                                                               OPTIONAL,
PowerLocalCellGroup-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
__ ********************
  COMMON MEASUREMENT INITIATION RESPONSE
        ************
CommonMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{CommonMeasurementInitiationResponse-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
                                                                                                                 OPTIONAL,
CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                 CRITICALITY ignore
                                                                        TYPE MeasurementID
                                                                                                                 PRESENCE mandatory
     ID id-CommonMeasurementObjectType-CM-Rsp
                                                 CRITICALITY ignore
                                                                                                                 PRESENCE optional } |
                                                                        TYPE CommonMeasurementObjectType-CM-Rsp
     ID id-SFN
                                                 CRITICALITY ignore
                                                                        TYPE SFN
                                                                                                                 PRESENCE optional }
     ID id-CriticalityDiagnostics
                                                 CRITICALITY ignore
                                                                        TYPE CriticalityDiagnostics
                                                                                                                 PRESENCE optional },
CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-CommonMeasurementAccuracy
                                         CRITICALITY ignore
                                                                 EXTENSION CommonMeasurementAccuracy
                                                                                                               PRESENCE optional |
        id-MeasurementRecoverySupportIndicator
                                                     CRITICALITY ignore
                                                                            EXTENSION MeasurementRecoverySupportIndicator 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
                                                                                                               PRESENCE mandatory }
                                                CRITICALITY ignore
                                                                        TYPE PowerLocalCellGroup-CM-Rsp
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,
   iE-Extensions
                                  ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs} }
                                                                                                               OPTIONAL,
```

```
RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerLocalCellGroup-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                CommonMeasurementValue,
                                ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rsp-ExtIEs}}
   iE-Extensions
                                                                                                          OPTIONAL,
PowerLocalCellGroup-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ***************
-- COMMON MEASUREMENT INITIATION FAILURE
  *****************
CommonMeasurementInitiationFailure ::= SEOUENCE {
   protocolIEs
                ProtocolIE-Container
                                              {{CommonMeasurementInitiationFailure-IEs}},
   protocolExtensions ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                          OPTIONAL,
CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID
         id-MeasurementID
                                       CRITICALITY
                                                     ignore
                                                                           MeasurementID
                                                                                                          PRESENCE mandatory
     TD
          id-Cause
                                       CRITICALITY
                                                                    TYPE
                                                                                                          PRESENCE mandatory
                                                     ignore
                                                                           Cause
   { ID
          id-CriticalityDiagnostics
                                       CRITICALITY
                                                     ignore
                                                                    TYPE
                                                                           CriticalityDiagnostics
                                                                                                          PRESENCE optional },
CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- COMMON MEASUREMENT REPORT
     *****************
CommonMeasurementReport ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                             {{CommonMeasurementReport-IEs}},
                      ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
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 } |
     ID id-SFN
                                                CRITICALITY ignore
                                                                       TYPE SFN
                                                                                                                 PRESENCE optional },
   . . .
CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoveryReportingIndicator
                                                        CRITICALITY ignore
                                                                              EXTENSION
                                                                                         MeasurementRecoveryReportingIndicator 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 ::= {
                                                                                                            PRESENCE mandatory }
    TYPE PowerLocalCellGroup-CM-Rprt
Cell-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation CommonMeasurementValueInformation,
   iE-Extensions
                                 ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
                                                                                                            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 {
                      ProtocolIE-Container
                                          {{CommonMeasurementTerminationRequest-IEs}},
   protocolIEs
                      ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
                                                                                                  PRESENCE mandatory },
   { ID
         id-MeasurementID
                         CRITICALITY
                                                                   MeasurementID
CommonMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     COMMON MEASUREMENT FAILURE INDICATION
  *****************
CommonMeasurementFailureIndication ::= SEQUENCE {
                      ProtocolIE-Container
                                         {{CommonMeasurementFailureIndication-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer {{CommonMeasurementFailureIndication-Extensions}}
                                                                                                    OPTIONAL,
CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
                                CRITICALITY ignore
                                                                                              PRESENCE mandatory
         id-MeasurementID
                                                       TYPE
                                                             MeasurementID
   { ID
                                CRITICALITY ignore
                                                       TYPE
                                                                                              PRESENCE mandatory
         id-Cause
                                                             Cause
   . . .
CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ******************
-- CELL SETUP REOUEST FDD
__ ********************
CellSetupRequestFDD ::= SEQUENCE {
                      ProtocolIE-Container
                                         {{CellSetupRequestFDD-IEs}},
   protocolIEs
```

```
ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}}
    protocolExtensions
                                                                                                 OPTIONAL,
CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Local-Cell-ID
                                                                CRITICALITY reject TYPE Local-Cell-ID
                                                                                                                                 PRESENCE mandatory
} |
     ID id-C-ID
                                                                CRITICALITY reject TYPE C-ID
                                                                                                                                 PRESENCE mandatory
} |
     ID id-ConfigurationGenerationID
                                                                CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                                 PRESENCE mandatory
    ID id-T-Cell
                                                                CRITICALITY reject TYPE T-Cell
                                                                                                                                 PRESENCE mandatory
     ID id-UARFCNforNu
                                                                CRITICALITY reject TYPE UARFON
                                                                                                                                 PRESENCE mandatory
} |
     ID id-UARFCNforNd
                                                                CRITICALITY reject TYPE UARFON
                                                                                                                                 PRESENCE mandatory
    { ID id-MaximumTransmissionPower
                                                                CRITICALITY reject TYPE MaximumTransmissionPower
                                                                                                                                 PRESENCE mandatory
} |
                                                                 CRITICALITY reject TYPE Closedlooptimingadjustmentmode
      ID id-Closed-Loop-Timing-Adjustment-Mode
                                                                                                                                 PRESENCE optional } |
     ID id-PrimaryScramblingCode
                                                                CRITICALITY reject TYPE PrimaryScramblingCode
                                                                                                                                 PRESENCE mandatory
} |
    ID id-Synchronisation-Configuration-Cell-SetupRqst
                                                                CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
                                                                                                                                            PRESENCE
    mandatory } |
    { ID id-DL-TPC-Pattern01Count
                                                                                                                                PRESENCE mandatory
                                                                CRITICALITY reject TYPE DL-TPC-Pattern01Count
} |
    { ID id-PrimarySCH-Information-Cell-SetupRgstFDD
                                                                 CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD
                                                                                                                                            PRESENCE
    mandatory } |
    { ID id-SecondarySCH-Information-Cell-SetupRgstFDD
                                                                 CRITICALITY reject TYPE SecondarySCH-Information-Cell-SetupRqstFDD
                                                                                                                                            PRESENCE
mandatory } |
    { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD
                                                                 CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD
                                                                                                                                            PRESENCE
    mandatory } |
    { ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD
                                                                 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-SetupRqstFDD
                                                            CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstFDD
    PRESENCE optional }
    { ID id-CellPortion-InformationList-Cell-SetupRostFDD
                                                            CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-SetupRqstFDD
    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} }
    iE-Extensions
                                                                                                                       OPTIONAL,
```

```
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-SetupRqstFDD-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
SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Information-Cell-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                           CommonPhysicalChannelID,
    primaryCPICH-Power
                                           PrimaryCPICH-Power,
    transmitDiversityIndicator
                                           TransmitDiversityIndicator,
                                           ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs} }
   iE-Extensions
PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{
InformationItemIE-Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
                                                                   CRITICALITY
                                                                                   reject
                                                                                                                   TYPE SecondaryCPICH-
InformationItem-Cell-SetupRqstFDD
                                       PRESENCE
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-SetupRgstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL.
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   bCH-information
                                          BCH-Information-Cell-SetupRqstFDD,
   sTTD-Indicator
                                          STTD-Indicator,
   iE-Extensions
                                          ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                              OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                          CommonTransportChannelID,
   bCH-Power
                                          DL-Power,
                                          iE-Extensions
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
   powerRaiseLimit
                                          PowerRaiseLimit,
   dLPowerAveragingWindowSize
                                          DLPowerAveragingWindowSize,
                                          ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-SetupRqstFDD::= SEQUENCE
   iPDL-FDD-Parameters
                                              IPDL-FDD-Parameters,
   iPDL-Indicator
                                              IPDL-Indicator.
                                          ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                                 OPTIONAL,
IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
CellPortion-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container{{ CellPortion-
InformationItemIE-Cell-SetupRgstFDD }}
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 ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{CellSetupRequestTDD-IEs}},
                         ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}}
   protocolExtensions
                                                                                       OPTIONAL,
   . . .
CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    ID id-Local-Cell-ID
                                                      CRITICALITY reject TYPE Local-Cell-ID
                                                                                                                    PRESENCE mandatory
   { ID id-C-ID
                                                      CRITICALITY reject TYPE C-ID
                                                                                                                    PRESENCE mandatory
} |
    ID id-ConfigurationGenerationID
                                                      CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                    PRESENCE mandatory
    ID id-UARFCNforNt
                                                      CRITICALITY reject TYPE UARFON
                                                                                                                    PRESENCE mandatory
     ID id-CellParameterID
                                                      CRITICALITY reject TYPE CellParameterID
                                                                                                                    PRESENCE mandatory
    ID id-MaximumTransmissionPower
                                                      CRITICALITY reject TYPE MaximumTransmissionPower
                                                                                                                    PRESENCE mandatory
} |
    { ID id-TransmissionDiversityApplied
                                                      CRITICALITY reject TYPE TransmissionDiversityApplied
                                                                                                                    PRESENCE mandatory
} |
    ID id-SyncCase
                                                      CRITICALITY reject TYPE SyncCase
                                                                                                                    PRESENCE mandatory
   { ID id-Synchronisation-Configuration-Cell-SetupRqst
                                                      CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst PRESENCE
mandatory } |
```

```
{ ID id-DPCHConstant
                                                         CRITICALITY reject TYPE ConstantValue
                                                                                                                         PRESENCE mandatory
} -- This IE shall be ignored by the Node B.
    { ID id-PUSCHConstant
                                                         CRITICALITY reject TYPE ConstantValue
                                                                                                                         PRESENCE mandatory
} -- This IE shall be ignored by the Node B.
    { ID id-PRACHConstant
                                                         CRITICALITY reject TYPE ConstantValue
                                                                                                                         PRESENCE mandatory
} -- This IE shall be ignored by the Node B.
    { ID id-TimingAdvanceApplied
                                                         CRITICALITY reject TYPE TimingAdvanceApplied
                                                                                                                         PRESENCE mandatory
    { ID id-SCH-Information-Cell-SetupRqstTDD
                                                         CRITICALITY reject TYPE SCH-Information-Cell-SetupRqstTDD
                                                                                                                         PRESENCE optional } |
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
   { ID id-PCCPCH-Information-Cell-SetupRqstTDD
                                                                                                                         PRESENCE optional } |
                                                         CRITICALITY reject TYPE PCCPCH-Information-Cell-SetupRqstTDD
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    { ID id-TimeSlotConfigurationList-Cell-SetupRgstTDD
                                                         CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-SetupRgstTDD PRESENCE optional
}, -- Mandatory for 3.84Mcps 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
    { ID id-PCCPCH-LCR-Information-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION PCCPCH-LCR-Information-Cell-SetupRqstTDD
    PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { 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
    { ID id-ReferenceSFNoffset
                                                             CRITICALITY ignore EXTENSION ReferenceSFNoffset
    PRESENCE optional }
    { ID id-IPDLParameter-Information-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRgstTDD
    PRESENCE optional }
                         -- Applicable to 3.84Mcps TDD only
    { ID id-IPDLParameter-Information-LCR-Cell-SetupRgstTDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-SetupRgstTDD
                        -- Applicable to 1.28Mcps TDD only
    PRESENCE optional },
    . . .
SCH-Information-Cell-SetupRgstTDD ::= SEOUENCE {
    commonPhysicalChannelID
                                         CommonPhysicalChannelID,
    syncCaseIndicator
                                         SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
                                         DL-Power,
    sCH-Power
                                         TSTD-Indicator,
    tSTD-Indicator
    iE-Extensions
                                         ProtocolExtensionContainer { SCH-Information-Cell-SetupRgstTDD-ExtIEs} }
SCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SyncCaseIndicator-Cell-SetupRgstTDD-PSCH ::= ProtocolIE-Single-Container {{ SyncCaseIndicatorIE-Cell-SetupRgstTDD-PSCH }}
SyncCaseIndicatorIE-Cell-SetupRgstTDD-PSCH NBAP-PROTOCOL-IES ::= {
    PRESENCE
mandatory }
```

```
SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH ::= CHOICE {
    case1
                                        Case1-Cell-SetupRgstTDD,
    case2
                                        Case2-Cell-SetupRgstTDD,
Case1-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlot
    iE-Extensions
                                        ProtocolExtensionContainer { CaselItem-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                       OPTIONAL,
CaselItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Case2-Cell-SetupRgstTDD ::= SEQUENCE
    sCH-TimeSlot
                                        SCH-TimeSlot,
                                        ProtocolExtensionContainer { Case2Item-Cell-SetupRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                       OPTIONAL,
Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pCCPCH-Power
                                            PCCPCH-Power,
    sCTD-Indicator
                                            SCTD-Indicator,
                                            ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                             OPTIONAL,
PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
TimeSlotConfigurationList-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-SetupRqstTDD
TimeSlotConfigurationItem-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
    iE-Extensions
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs} } 
                                                                                                                                      OPTIONAL,
    . . .
TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-SetupRgstTDD
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
    iE-Extensions
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DwPCH-LCR-Information-Cell-SetupRgstTDD ::= SEQUENCE {
    commonPhysicalChannelId
                                    CommonPhysicalChannelID,
    tSTD-Indicator
                                    TSTD-Indicator.
    dwPCH-Power
                                    DwPCH-Power,
    iE-Extensions
                                    ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                          OPTIONAL,
DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-SetupRgstTDD ::= SEQUENCE {
    iPDL-TDD-Parameters
                                            IPDL-TDD-Parameters,
    iPDL-Indicator
                                            IPDL-Indicator,
                                            ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                      OPTIONAL,
IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
IPDLParameter-Information-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
   iPDL-TDD-Parameters-LCR
                                   IPDL-TDD-Parameters-LCR,
   iPDL-Indicator
                                      IPDL-Indicator.
   iE-Extensions
                                      ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-SetupRgstTDD-ExtIEs} }
                                                                                                                        OPTIONAL,
IPDLParameter-Information-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ **********************
-- CELL SETUP RESPONSE
__ ********************
CellSetupResponse ::= SEQUENCE {
                            ProtocolIE-Container
                                                 {{CellSetupResponse-IEs}},
   protocolIEs
                            ProtocolExtensionContainer {{CellSetupResponse-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID
         id-CriticalityDiagnostics
                                      CRITICALITY
                                                                          CriticalityDiagnostics
                                                                                                         PRESENCE optional },
                                                     ignore
                                                                   TYPE
   . . .
CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- CELL SETUP FAILURE
__ **********************
CellSetupFailure ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                            {{CellSetupFailure-IEs}},
                        ProtocolExtensionContainer {{CellSetupFailure-Extensions}}
   protocolExtensions
                                                                                     OPTIONAL,
CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
     TD
                                                                                                         PRESENCE mandatory } |
         id-Cause
                                          CRITICALITY ignore
                                                                   TYPE
                                                                          Cause
   { ID
         id-CriticalityDiagnostics
                                          CRITICALITY ignore
                                                                   TYPE
                                                                          CriticalityDiagnostics
                                                                                                         PRESENCE optional },
   . . .
CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
```

```
__ *******************
  CELL RECONFIGURATION REQUEST FDD
  ******************
CellReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CellReconfigurationRequestFDD-IEs}},
   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-PrimarySCH-Information-Cell-ReconfRqstFDD
                                                                 CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }
    { ID id-SecondarySCH-Information-Cell-ReconfRgstFDD
                                                                 CRITICALITY reject TYPE SecondarySCH-Information-Cell-ReconfRgstFDD
    PRESENCE optional }
          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 id-IPDLParameter-Information-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
    PRESENCE optional }
    { ID id-CellPortion-InformationList-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-ReconfRqstFDD
    PRESENCE optional },
    . . .
Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
   n-INSYNC-IND
                         N-INSYNC-IND,
   n-OUTSYNC-IND
                          N-OUTSYNC-IND,
   t-RLFAILURE
                          T-RLFAILURE,
   iE-Extensions
                        ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs} }
                                                                                                                 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-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
    secondarySCH-Power
                                          DL-Power,
   iE-Extensions
                                          ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} }
                                                                                                                                OPTIONAL,
SecondarySCH-Information-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   primaryCPICH-Power
                                          PrimaryCPICH-Power,
   iE-Extensions
                                          ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs} }
                                                                                                                                OPTIONAL,
PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondaryCPICH-InformationList-Cell-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD
       PRESENCE mandatory }
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                              CommonPhysicalChannelID,
   secondaryCPICH-Power
                                              DL-Power,
   iE-Extensions
                                              ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
   OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
```

```
bCH-information
                                     BCH-information-Cell-ReconfRqstFDD,
   iE-Extensions
                                     ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRgstFDD-ExtIEs} }
                                                                                                                   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-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE {
   iPDL-FDD-Parameters
                                         IPDL-FDD-Parameters
                                                              OPTIONAL,
   iPDL-Indicator
                                         IPDL-Indicator,
                                     ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
IPDLParameter-Information-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellPortion-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container {{ CellPortion-
InformationItemIE-Cell-ReconfRqstFDD }}
CellPortion-InformationItemIE-Cell-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE
             mandatory}
CellPortion-InformationItem-Cell-ReconfRqstFDD::= SEQUENCE {
   cellPortionID
                                     CellPortionID,
   maximumTransmissionPowerforCellPortion
                                                MaximumTransmissionPower,
   iE-Extensions
                                     ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
                                                                                                                     OPTIONAL,
CellPortion-InformationItem-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- CELL RECONFIGURATION REQUEST TDD
```

```
__ *******************
CellReconfigurationRequestTDD ::= SEOUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{CellReconfigurationRequestTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
                                                                                                              OPTIONAL.
CellReconfigurationRequestTDD-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-TimingAdvanceApplied
                                                        CRITICALITY reject TYPE TimingAdvanceApplied
                                                                                                                    PRESENCE optional }
    { ID id-SCH-Information-Cell-ReconfRgstTDD
                                                        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-ReconfRgstTDD
                                                                                                                    PRESENCE optional
     ID id-MaximumTransmissionPower
                                                                                                                    PRESENCE optional
                                                        CRITICALITY reject TYPE MaximumTransmissionPower
   { ID id-DPCHConstant
                                                        CRITICALITY reject TYPE ConstantValue
                                                                                                                    PRESENCE optional }
   -- This IE shall be ignored by the Node B.
   { ID id-PUSCHConstant
                                                        CRITICALITY reject TYPE ConstantValue
                                                                                                                    PRESENCE optional } |
   -- This IE shall be ignored by the Node B.
   { ID id-PRACHConstant
                                                                                                                    PRESENCE optional } |
                                                        CRITICALITY reject TYPE ConstantValue
   -- This IE shall be ignored by the Node B.
   { ID id-TimeSlotConfigurationList-Cell-ReconfRqstTDD
                                                       CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-ReconfRqstTDD
                                                                                                                            PRESENCE
optional },
   -- Mandatory for 3.84Mcps TDD only. Not Applicable to 1.28Mcps TDD.
CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
          id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
   PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
   { ID id-DwPCH-LCR-Information-Cell-ReconfRqstTDD
                                                           CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-ReconfRqstTDD
   PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
          id-IPDLParameter-Information-Cell-ReconfRqstTDD
                                                           CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstTDD
   PRESENCE optional } -- Applicable to 3.84Mcps TDD only
   { ID id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-ReconfRqstTDD
   PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
SCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   sCH-Power
                                         DL-Power,
                                         ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                    OPTIONAL,
PSCH-Information-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-Information-Cell-ReconfRqstTDD ::= 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-ReconfRgstTDD ::= SEQUENCE {
   timeSlot
                                          TimeSlot,
   timeSlotStatus
                                          TimeSlotStatus,
   timeSlotDirection
                                          TimeSlotDirection,
                                          ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD
TimeSlotConfigurationItem-LCR-Cell-ReconfRgstTDD ::= SEQUENCE {
   timeSlotLCR
                                          TimeSlotLCR,
   timeSlotStatus
                                          TimeSlotStatus,
   timeSlotDirection
                                          TimeSlotDirection,
   iE-Extensions
                                          ProtocolExtensionContainer { TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs} }
TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DwPCH-LCR-Information-Cell-ReconfRqstTDD ::= SEQUENCE
    commonPhysicalChannelId
                                          CommonPhysicalChannelID,
   dwPCH-Power
                                          DwPCH-Power,
                                          iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-Cell-ReconfRgstTDD ::= SEQUENCE
   iPDL-TDD-Parameters
                                          IPDL-TDD-Parameters
                                                                 OPTIONAL,
   iPDL-Indicator
                                          IPDL-Indicator,
   iE-Extensions
                                          ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstTDD-ExtIEs} }
                                                                                                                                OPTIONAL,
    . . .
```

```
IPDLParameter-Information-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLParameter-Information-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
   iPDL-TDD-Parameters-LCR
                                      IPDL-TDD-Parameters-LCR
                                                               OPTIONAL,
   iPDL-Indicator
                                      IPDL-Indicator,
                                      ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ****************
  CELL RECONFIGURATION RESPONSE
  *****************
CellReconfigurationResponse ::= SEQUENCE {
                                               {{CellReconfigurationResponse-IEs}},
   protocolIEs
                           ProtocolIE-Container
   protocolExtensions
                           ProtocolExtensionContainer {{CellReconfigurationResponse-Extensions}}
                                                                                                       OPTIONAL,
CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
         id-CriticalityDiagnostics
   { ID
                                      CRITICALITY
                                                    ignore
                                                                  TYPE
                                                                         CriticalityDiagnostics
                                                                                                       PRESENCE optional },
   . . .
CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    CELL RECONFIGURATION FAILURE
  *****************
CellReconfigurationFailure ::= SEQUENCE {
               ProtocolIE-Container {{CellReconfigurationFailure-IEs}},
   protocolIEs
   protocolExtensions ProtocolExtensionContainer {{CellReconfigurationFailure-Extensions}}
                                                                                                       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
                                                    TYPE C-ID
                                                                                mandatory},
                   CRITICALITY
                                                                      PRESENCE
   . . .
CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- CELL DELETION RESPONSE
__ *********************
CellDeletionResponse ::= SEQUENCE {
                                            {{CellDeletionResponse-IEs}},
   protocolIEs
                     ProtocolIE-Container
                     ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
                                                                  TYPE
                                                                          CriticalityDiagnostics
                                                                                                        PRESENCE optional },
   { ID
                                   CRITICALITY
                                                    ignore
   . . .
CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- RESOURCE STATUS INDICATION
__ *********************
```

```
ResourceStatusIndication ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{ResourceStatusIndication-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}}
                                                                                                              OPTIONAL.
ResourceStatusIndication-IES NBAP-PROTOCOL-IES ::= {
     ID id-IndicationType-ResourceStatusInd
                                             CRITICALITY ignore TYPE IndicationType-ResourceStatusInd
                                                                                                                 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
                                          Local-Cell-Group-InformationList-ResourceStatusInd OPTIONAL,
   iE-Extensions
                                          ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    . . .
No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList-ResourceStatusInd
                                                                        CRITICALITY
                                                                                        ignore
                                                                                                                    EXTENSION Power-Local-
Cell-Group-InformationList-ResourceStatusInd
                                                 PRESENCE
                                                             optional
    . . .
Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-
InformationItemIE-ResourceStatusInd }}
Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE
mandatory }
Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
   local-CellID
                                             Local-Cell-ID,
   addorDeleteIndicator
                                             AddorDeleteIndicator,
    dl-or-global-capacityCredit
                                             DL-or-Global-CapacityCredit
                                                                                        OPTIONAL.
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
    ul-capacityCredit
                                             UL-CapacityCredit
                                                                                        OPTIONAL.
    commonChannelsCapacityConsumptionLaw
                                             CommonChannelsCapacityConsumptionLaw
                                                                                       OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
    dedicatedChannelsCapacityConsumptionLaw
                                             DedicatedChannelsCapacityConsumptionLaw
                                                                                        OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
    maximumDL-PowerCapability
                                             MaximumDL-PowerCapability
                                                                                        OPTIONAL,
```

```
-- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
   minSpreadingFactor
                                              MinSpreadingFactor
                                                                                         OPTIONAL.
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
   minimumDL-PowerCapability
                                              MinimumDL-PowerCapability
                                                                                         OPTIONAL.
    -- This IE shall be present if AddorDeleteIndicator IE is set to 'add'
   local-Cell-Group-ID
                                              Local-Cell-ID
                                                                                        OPTIONAL.
                                              ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs} }OPTIONAL,
    iE-Extensions
    . . .
Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                                                     PRESENCE optional } |
           id-ReferenceClockAvailability
                                              CRITICALITY ignore
                                                                     EXTENSION ReferenceClockAvailability
    -- 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
           id-HSDPA-Capability
                                              CRITICALITY ignore
                                                                     EXTENSION HSDPA-Capability
                                                                                                                     PRESENCE optional }
     ID
          id-E-DCH-Capability
                                              CRITICALITY ignore
                                                                     EXTENSION E-DCH-Capability
                                                                                                                     PRESENCE optional }
          id-E-DCH-TTI2ms-Capability
                                                                     EXTENSION E-DCH-TTI2ms-Capability
                                                                                                                     PRESENCE conditional } |
                                              CRITICALITY ignore
     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-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
                                                                     EXTENSION E-DCHCapacityConsumptionLaw
     ID
                                              CRITICALITY ignore
                                                                                                                  PRESENCE optional } |
           id-F-DPCH-Capability
                                                                     EXTENSION F-DPCH-Capability
                                                                                                                  PRESENCE optional }.
    ID
                                              CRITICALITY ignore
    . . .
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 ::= {
                                                                     EXTENSION E-DCHCapacityConsumptionLaw
    { ID
           id-E-DCH-CapacityConsumptionLaw
                                              CRITICALITY ignore
                                                                                                                  PRESENCE optional },
    . . .
Power-Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-
Cell-Group-InformationItemIE-ResourceStatusInd }}
```

```
Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
          id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-
ResourceStatusInd
                                  mandatorv
                      PRESENCE
Power-Local-Cell-Group-InformationItem-ResourceStatusInd::= SEQUENCE {
   power-Local-Cell-Group-ID
                                             Local-Cell-ID,
   maximumDL-PowerCapability
                                              MaximumDL-PowerCapability,
                                              ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs} }
   iE-Extensions
   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,
                                          ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd
                                                                            CRITICALITY
                                                                                            ignore
                                                                                                                    EXTENSION
                                                                                                                               Power-Local-
Cell-Group-InformationList2-ResourceStatusInd
                                                  PRESENCE
                                                             optional
    . . .
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
                                              DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
    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
                                              CRITICALITY ignore
                                                                         EXTENSION ReferenceClockAvailability
                                                                                                                     PRESENCE optional }
     ID
           id-HSDPA-Capability
                                              CRITICALITY ignore
                                                                         EXTENSION HSDPA-Capability
                                                                                                                     PRESENCE optional
     ID
           id-E-DCH-Capability
                                              CRITICALITY ignore
                                                                         EXTENSION E-DCH-Capability
                                                                                                                     PRESENCE optional }
           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-E-DCH-SF-Capability
                                                                         EXTENSION E-DCH-SF-Capability
                                                                                                                     PRESENCE conditional }
                                              CRITICALITY ignore
    -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
           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-F-DPCH-Capability
    { ID
                                              CRITICALITY ignore
                                                                         EXTENSION F-DPCH-Capability
                                                                                                                  PRESENCE optional },
Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEOUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE2-ResourceStatusInd }}
Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
     ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore
                                                                                    TYPE Local-Cell-Group-InformationItem2-ResourceStatusInd
    PRESENCE mandatory }
Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE
   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 }.
    . . .
Power-Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-
Local-Cell-Group-InformationItemIE2-ResourceStatusInd }}
Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
           ResourceStatusInd
                       PRESENCE
                                  mandatorv
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 ::= {
CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-
ResourceStatusInd }}
CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
   communicationControlPortID
                                      CommunicationControlPortID,
   resourceOperationalState
                                      ResourceOperationalState,
   availabilityStatus
                                      AvailabilityStatus,
   iE-Extensions
                                      OPTIONAL,
   . . .
CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-
ResourceStatusInd }}
Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
   resourceOperationalState
                                      ResourceOperationalState
                                                                                 OPTIONAL,
   availabilityStatus
                                      AvailabilityStatus
                                                                                 OPTIONAL,
   primary-SCH-Information
                                      P-SCH-Information-ResourceStatusInd
                                                                                 OPTIONAL, -- FDD only
   secondary-SCH-Information
                                                                                 OPTIONAL, -- FDD only
                                      S-SCH-Information-ResourceStatusInd
   primary-CPICH-Information
                                                                                 OPTIONAL, -- FDD only
                                      P-CPICH-Information-ResourceStatusInd
   secondary-CPICH-Information
                                      S-CPICH-InformationList-ResourceStatusInd
                                                                                 OPTIONAL, -- FDD only
   primary-CCPCH-Information
                                      P-CCPCH-Information-ResourceStatusInd
                                                                                 OPTIONAL,
   bCH-Information
                                      BCH-Information-ResourceStatusInd
                                                                                 OPTIONAL,
   secondary-CCPCH-InformationList
                                      S-CCPCH-InformationList-ResourceStatusInd
                                                                                 OPTIONAL,
   pCH-Information
                                      PCH-Information-ResourceStatusInd
                                                                                 OPTIONAL,
   pICH-Information
                                      PICH-Information-ResourceStatusInd
                                                                                 OPTIONAL.
   fACH-InformationList
                                      FACH-InformationList-ResourceStatusInd
                                                                                 OPTIONAL.
   pRACH-InformationList
                                      PRACH-InformationList-ResourceStatusInd
                                                                                 OPTIONAL.
   rACH-InformationList
                                      RACH-InformationList-ResourceStatusInd
                                                                                 OPTIONAL,
   aICH-InformationList
                                      AICH-InformationList-ResourceStatusInd
                                                                                 OPTIONAL, -- FDD only
   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,
                                                                                 OPTIONAL, -- Applicable to 3.84Mcps TDD only
   sCH-Information
                                      SCH-Information-ResourceStatusInd
```

```
ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
   iE-Extensions
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 }
   { 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 },
   . . .
P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}
P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}
S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}
P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-P-CPICH-Information CRITICALITY ignore
                                                 TYPE Common-PhysicalChannel-Status-Information
                                                                                                           PRESENCE mandatory }
S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-
ResourceStatusInd }}
S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                          PRESENCE mandatory
P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}
P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   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 ::= SEQUENCE (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 ::= {
    { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                    PRESENCE mandatory }
DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }}
DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-DwPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                    PRESENCE mandatory }
HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
    resourceOperationalState
                                      ResourceOperationalState,
    availabilityStatus
                                       AvailabilityStatus,
                                       ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }}
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
S-CCPCH-InformationListExt-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-
InformationItemIE-ResourceStatusInd }}
S-CCPCH-LCR-InformationListExt-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-
InformationItemIE-ResourceStatusInd }}
E-DCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
    resourceOperationalState
                                       ResourceOperationalState,
    availabilityStatus
                                       AvailabilityStatus,
    iE-Extensions
                                       ProtocolExtensionContainer {{ E-DCH-Resources-Information-ResourceStatusInd-ExtIEs }}
                                                                                                                                OPTIONAL,
E-DCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- SYSTEM INFORMATION UPDATE REQUEST
__ ***********************
SystemInformationUpdateRequest ::= SEQUENCE {
```

```
{{SystemInformationUpdateRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{SystemInformationUpdateRequest-Extensions}}
                                                                                                                OPTIONAL,
SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                            CRITICALITY reject TYPE C-ID
                                                                                                                     PRESENCE mandatory } |
     ID id-BCCH-ModificationTime
                                                            CRITICALITY reject TYPE BCCH-ModificationTime
                                                                                                                     PRESENCE optional } |
     ID id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
                                                            CRITICALITY reject TYPE MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
   PRESENCE mandatory },
SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::=
MIB-SB-SIB-InformationList-SystemInfoUpdateRgst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SB-SIB-InformationItem-SystemInfoUpdateRgst
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
   iB-Type
                                     IB-Type,
   iB-OC-ID
                                     IB-OC-ID,
   deletionIndicator
                                     DeletionIndicator-SystemInfoUpdate,
                                     ProtocolExtensionContainer { { MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs} }
   iE-Extensions
                                                                                                                              OPTIONAL,
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DeletionIndicator-SystemInfoUpdate ::= CHOICE {
   no-Deletion
                                     No-Deletion-SystemInfoUpdate,
   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,
                                         ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs} } 
   iE-Extensions
                                                                                                                  OPTIONAL
No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Single-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}
SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory
```

```
SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate
SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
   iB-SG-POS
                                                         OPTIONAL,
   segment-Type
                                       Segment-Type
                                                         OPTIONAL.
   -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
                                       IB-SG-DATA
                                                         OPTIONAL,
   -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
                                       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
                                                                   TYPE
                                                                           CriticalityDiagnostics
                                                                                                          PRESENCE optional },
                                                     ignore
   . . .
SystemInformationUpdateResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  -- SYSTEM INFORMATION UPDATE FAILURE
        ****************
SystemInformationUpdateFailure ::= SEQUENCE
   protocolIEs
                        ProtocolIE-Container
                                              {{SystemInformationUpdateFailure-IEs}},
                      ProtocolExtensionContainer {{SystemInformationUpdateFailure-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-Cause
                                          CRITICALITY
                                                         ignore
                                                                       TYPE
                                                                                                                  PRESENCE mandatory
                                                                              Cause
```

```
id-CriticalityDiagnostics
                                              CRITICALITY
                                                                                      CriticalityDiagnostics
                                                                                                                   PRESENCE optional },
    { ID
                                                              ignore
                                                                              TYPE
SystemInformationUpdateFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
        ****************
-- RADIO LINK SETUP REQUEST FDD
  *****************
RadioLinkSetupRequestFDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                  {{RadioLinkSetupRequestFDD-IEs}},
                           ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                          CRITICALITY reject TYPE CRNC-CommunicationContextID
                                                                                                                            PRESENCE mandatory
} |
     ID id-UL-DPCH-Information-RL-SetupRgstFDD
                                                          CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRgstFDD
                                                                                                                            PRESENCE mandatory
     ID id-DL-DPCH-Information-RL-SetupRqstFDD
                                                          CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
                                                                                                                            PRESENCE optional } |
     ID id-DCH-FDD-Information
                                                          CRITICALITY reject TYPE DCH-FDD-Information
                                                                                                                            PRESENCE mandatory
} |
     ID id-RL-InformationList-RL-SetupRqstFDD
                                                          CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD
                                                                                                                            PRESENCE mandatory
} |
    ID id-Transmission-Gap-Pattern-Sequence-Information
                                                          CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
       PRESENCE optional } |
   { ID id-Active-Pattern-Sequence-Information
                                                          CRITICALITY reject TYPE Active-Pattern-Sequence-Information
                                                                                                                            PRESENCE optional },
RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-Information
                                                   CRITICALITY ignore EXTENSION DL-PowerBalancing-Information
                                                                                                                   PRESENCE optional }
     ID id-HSDSCH-FDD-Information
                                                                                                                   PRESENCE optional }
                                                   CRITICALITY reject EXTENSION HSDSCH-FDD-Information
    { ID id-HSDSCH-RNTI
                                                   CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                   PRESENCE conditional } |
    -- The IE shall be present if HS-DSCH Information IE is present
    { ID id-HSPDSCH-RL-ID
                                                   CRITICALITY reject EXTENSION RL-ID
                                                                                                                   PRESENCE conditional }
    -- The IE shall be present if HS-DSCH Information IE is present
     ID id-E-DPCH-Information-RL-SetupRqstFDD
                                                   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 },
```

```
UL-DPCH-Information-RL-SetupRgstFDD ::= 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,
   tFCS
                                          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.
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
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-SetupRgstFDD ::= SEOUENCE {
   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,
                                          LimitedPowerIncrease,
   limitedPowerIncrease
   innerLoopDLPCStatus
                                          InnerLoopDLPCStatus,
   iE-Extensions
                                          DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-SetupRgstFDD ::= SEOUENCE {
   pO1-ForTFCI-Bits
                                          PowerOffset,
   pO2-ForTPC-Bits
                                          PowerOffset,
   pO3-ForPilotBits
                                          PowerOffset,
   iE-Extensions
                                          ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    . . .
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
    RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
          id-RL-InformationItem-RL-SetupRgstFDD
                                                                                       TYPE
                                                                                                              RI.-InformationItem-RI.-
                                                         CRITICALITY
                                                                        notify
SetupRastFDD
                  PRESENCE
                              mandatory}
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
   rI.-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
   initial DL-transmission Power
                                      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 }|
     ID id-Secondary-CPICH-Information
                                                     CRITICALITY ignore EXTENSION CommonPhysicalChannelID
                                                                                                              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 } |
                                                     CRITICALITY ignore EXTENSION SynchronisationIndicator
     ID id-SynchronisationIndicator
                                                                                                              PRESENCE optional },
E-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
   maxSet-E-DPDCHs
                                             Max-Set-E-DPDCHs,
   ul-PunctureLimit
                                             PunctureLimit,
   e-TFCS-Information
                                             E-TFCS-Information,
   e-TTT
                                             E-TTI.
    e-DPCCH-PO
                                             E-DPCCH-PO,
                                             E-RGCH-2-IndexStepThreshold,
    e-RGCH-2-IndexStepThreshold
    e-RGCH-3-IndexStepThreshold
                                             E-RGCH-3-IndexStepThreshold,
                                             HARO-Info-for-E-DCH,
   hARO-Info-for-E-DCH
   hSDSCH-Configured-Indicator
                                             HSDSCH-Configured-Indicator,
   iE-Extensions
                                             ProtocolExtensionContainer { { E-DPCH-Information-RL-SetupRqstFDD-ExtIEs} }
                                                                                                                         OPTIONAL,
```

```
E-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
F-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
   powerOffsetInformation
                                     PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD,
   fdd-TPC-DownlinkStepSize
                                     FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                     LimitedPowerIncrease,
   innerLoopDLPCStatus
                                     InnerLoopDLPCStatus,
   iE-Extensions
                                      ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRqstFDD-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
F-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE {
                                      PowerOffset.
   pO2-ForTPC-Bits
   -- This IE shall be ignored by Node B
                                      ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      *****************
-- RADIO LINK SETUP REQUEST TDD
__ ********************************
RadioLinkSetupRequestTDD ::= SEQUENCE {
   protocolIEs
                   ProtocolIE-Container
                                              {{RadioLinkSetupRequestTDD-IEs}},
                       ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    ID
           id-CRNC-CommunicationContextID
                                                         CRITICALITY reject TYPE CRNC-CommunicationContextID
                                                                                                                         PRESENCE mandatory
} |
           id-UL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                         CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional
           id-DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                         CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional
                                                         CRITICALITY reject TYPE DCH-TDD-Information
     ID
          id-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-SetupRgstTDD
                                                                                                                         PRESENCE mandatory
     ID
                                                         CRITICALITY reject TYPE RL-Information-RL-SetupRqstTDD
},
    . . .
```

```
RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-TDD-Information
                                         CRITICALITY reject
                                                               EXTENSION HSDSCH-TDD-Information
                                                                                                             PRESENCE optional } |
                                                                                                             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
                                                                EXTENSION RL-ID
                                                                                                             PRESENCE conditional } |
   -- The IE shall be present if HS-DSCH Information IE is present
   { ID id-PDSCH-RL-ID
                                         CRITICALITY ignore
                                                                EXTENSION RL-ID
                                                                                                            PRESENCE optional }.
   . . .
UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
   UL-CCTrCH-InformationItemIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
         id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD
                                                            CRITICALITY
                                                                                                            UL-CCTrCH-InformationItem-RL-
                                                                           notify
                                                                                          TYPE
SetupRqstTDD
                  PRESENCE
                             mandatory}
UL-CCTrCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
   cCTrCH-ID
                                         CCTrCH-ID,
   t FCS
                                         TFCS.
   tFCI-Coding
                                         TFCI-Coding.
   punctureLimit
                                         PunctureLimit,
   uL-DPCH-Information
                                         UL-DPCH-Information-RL-SetupRgstTDD
                                                                              OPTIONAL, -- Applicable to 3.84Mcps TDD only
                                         ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRgstTDD-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.
   PRESENCE optional },
   -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
   . . .
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 ::= SEOUENCE {
   repetitionPeriod
                                         RepetitionPeriod,
   repetitionLength
                                         RepetitionLength,
                                         TDD-DPCHOffset,
   tdd-DPCHOffset
   uL-Timeslot-Information
                                         UL-Timeslot-Information,
                                         ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
   iE-Extensions
UL-DPCH-InformationItem-RL-SetupRqstTDD-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,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                                     OPTIONAL,
UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ DL-CCTrCH-InformationItemIE-RL-
SetupRgstTDD }}
DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                                    CRITTCALITY
                                                                                    notify
                                                                                                                   TYPE DL-CCTrCH-InformationItem-
RL-SetupRqstTDD
                   PRESENCE
                               mandatory}
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID,
    t.FCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding,
    punctureLimit
                                            PunctureLimit,
    tdd-TPC-DownlinkStepSize
                                            TDD-TPC-DownlinkStepSize,
    cCTrCH-TPCList
                                            CCTrCH-TPCList-RL-SetupRqstTDD
                                                                                    OPTIONAL,
    dL-DPCH-Information
                                            DL-DPCH-Information-RL-SetupRqstTDD
                                                                                    OPTIONAL,
                                                                                                -- Applicable to 3.84Mcps TDD only
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-DPCH-LCR-Information-RL-SetupRgstTDD CRITICALITY notify
                                                                            EXTENSION DL-DPCH-LCR-Information-RL-SetupRgstTDD PRESENCE optional
     -- Applicable to 1.28Mcps TDD only
     ID id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD
                                                       CRITICALITY ignore
                                                                                EXTENSION DL-Power
                                                                                                                      PRESENCE optional }
     ID id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD
                                                       CRITICALITY ignore
                                                                                                                      PRESENCE optional }
                                                                                EXTENSION DL-Power
    { ID id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD
                                                                                                                      PRESENCE optional },
                                                       CRITICALITY ignore
                                                                                EXTENSION DL-Power
    . . .
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID.
                                            ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs} }
    iE-Extensions
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DL-DPCH-Information-RL-SetupRgstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationIE-RL-SetupRgstTDD }}
DL-DPCH-InformationIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD
                                                     CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-SetupRqstTDD
                                                                                                                       PRESENCE mandatory
DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
   tdd-DPCHOffset
                                          TDD-DPCHOffset,
    dL-Timeslot-Information
                                          DL-Timeslot-Information,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
DL-DPCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
    tdd-DPCHOffset
                                          TDD-DPCHOffset,
   dL-TimeslotLCR-Information
                                          DL-TimeslotLCR-Information,
    tstdIndicator
                                          TSTD-Indicator,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                                OPTIONAL,
DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-SetupRqstTDD ::= 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 only
                                          ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                 OPTIONAL,
    . . .
RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    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
  *****************
  RADIO LINK SETUP RESPONSE FDD
  *****************
RadioLinkSetupResponseFDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                  {{RadioLinkSetupResponseFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
                                                                                                                  OPTIONAL.
RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                      CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                           PRESENCE mandatory
} |
    ID id-NodeB-CommunicationContextID
                                                      CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                                                           PRESENCE mandatory
} |
    ID id-CommunicationControlPortID
                                                      CRITICALITY ignore TYPE CommunicationControlPortID
                                                                                                                           PRESENCE mandatory
    { ID id-RL-InformationResponseList-RL-SetupRspFDD
                                                      CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD
                                                                                                                           PRESENCE mandatory
} |
    { ID id-CriticalityDiagnostics
                                                                                                                           PRESENCE optional },
                                                      CRITICALITY ignore TYPE CriticalityDiagnostics
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::=
    { ID id-HSDSCH-FDD-Information-Response
                                                      CRITICALITY ignore EXTENSION HSDSCH-FDD-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-RL-InformationResponseItem-RL-SetupRspFDD
                                                                 CRITICALITY
                                                                                 ignore
                                                                                            TYPE
                                                                                                                RL-InformationResponseItem-RL-
               PRESENCE
SetupRspFDD
                          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,
                                                  ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
```

```
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-ActivationIndicator
                                                      CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                               PRESENCE optional
     ID id-E-DCH-RL-Set-ID
                                                      CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                               PRESENCE optional
    ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                               PRESENCE optional
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                      CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                               PRESENCE optional
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} }
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, Not Applicable to 1.28Mcps TDD
   { ID id-CriticalityDiagnostics
                                               CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                  PRESENCE optional },
   . . .
RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     PRESENCE
   optional } | -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
   { ID id-HSDSCH-TDD-Information-Response
                                               CRITICALITY ignore
                                                                     EXTENSION HSDSCH-TDD-Information-Response
                                                                                                               PRESENCE optional },
   . . .
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE
                                               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-RL-SetupRspTDD
   dSCH-InformationResponseList
                                                                                                            OPTIONAL,
   uSCH-InformationResponseList
                                               USCH-InformationResponseList-RL-SetupRspTDD
                                                                                                            OPTIONAL,
                                               ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY
                                                          TYPE
                                                                 DCH-InformationResponse PRESENCE
                                               ignore
                                                                                                          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
   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
   iE-Extensions
                                                  ProtocolExtensionContainer { { RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs} }
   OPTIONAL.
RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     *****************
-- RADIO LINK SETUP FAILURE FDD
  ******************
RadioLinkSetupFailureFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{RadioLinkSetupFailureFDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL,
RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                              CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                  PRESENCE mandatory } |
                                                                                                                  PRESENCE conditional } |
     ID id-NodeB-CommunicationContextID
                                              CRITICALITY ignore TYPE NodeB-CommunicationContextID
    -- This IE shall be present if at least one of the radio links has been successfully set up
     ID id-CommunicationControlPortID
                                              CRITICALITY ignore TYPE CommunicationControlPortID
                                                                                                                  PRESENCE optional } |
     ID id-CauseLevel-RL-SetupFailureFDD
                                              CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD
                                                                                                                  PRESENCE mandatory |
    { ID id-CriticalityDiagnostics
                                                                                                                  PRESENCE optional },
                                              CRITICALITY ignore TYPE CriticalityDiagnostics
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause
                       GeneralCauseList-RL-SetupFailureFDD,
                       RLSpecificCauseList-RL-SetupFailureFDD,
    rLSpecificCause
    . . .
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
   cause
                                              ProtocolExtensionContainer { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} }
   iE-Extensions
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
                                               OPTIONAL.
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCH-FDD-Information-Response
                                               CRITICALITY ignore
                                                                      EXTENSION HSDSCH-FDD-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-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD
                                                                          CRITICALITY
                                                                                          ignore
                                                                                                                    TYPE Unsuccessful-RL-
InformationRespItem-RL-SetupFailureFDD
                                           PRESENCE
                                                      mandatory }
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
   rI.-ID
                                               RL-ID,
   cause
                                               Cause,
   iE-Extensions
                                               ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
   OPTIONAL,
    . . .
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
          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-RL-SetupFailureFDD,
   diversityIndication
   not-Used-dSCH-InformationResponseList
                                                                          OPTIONAL,
   not-Used-tFCI2-BearerInformationResponse
                                              NULL
                                                                          OPTIONAL,
    sSDT-SupportIndicator
                                               SSDT-SupportIndicator,
   iE-Extensions
                                               ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
   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
                                             RL-ID.
   iE-Extensions
                                             ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} } }
                                                                                                                      OPTIONAL,
CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                             DCH-InformationResponse,
   iE-Extensions
                                                 ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs} }
   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 {
                                                 {{RadioLinkSetupFailureTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
                          ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL,
RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                 CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                 PRESENCE mandatory
           id-CauseLevel-RL-SetupFailureTDD
     ID
                                                 CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD
                                                                                                                 PRESENCE mandatory
     ID
          id-CriticalityDiagnostics
                                                 CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                 PRESENCE optional },
```

```
RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
   generalCause
                       GeneralCauseList-RL-SetupFailureTDD,
   rLSpecificCause
                       RLSpecificCauseList-RL-SetupFailureTDD,
GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
   iE-Extensions
                               ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs} }
                                                                                                                    OPTIONAL.
GeneralCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE {
   unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD
                                                          Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
   iE-Extensions
                                                          ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} }
   OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
         id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD
                                                                      CRITICALITY ignore
                                                                                              TYPE
                                                                                                                 Unsuccessful-RL-InformationResp-
RL-SetupFailureTDD
                       PRESENCE
                                   mandatory
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD ::= SEQUENCE {
   rL-ID
                                               RL-ID,
   cause
                                               ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
  ******************
```

```
-- RADIO LINK ADDITION REQUEST FDD
RadioLinkAdditionRequestFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{RadioLinkAdditionRequestFDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::=
     ID id-NodeB-CommunicationContextID
                                                  CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                 PRESENCE mandatory
     ID id-Compressed-Mode-Deactivation-Flag
                                                  CRITICALITY reject TYPE Compressed-Mode-Deactivation-Flag
                                                                                                                 PRESENCE optional } |
     ID id-RL-InformationList-RL-AdditionRgstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRgstFDD
                                                                                                                 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 } |
                                                 CRITICALITY reject EXTENSION E-DPCH-Information-RL-AdditionReqFDD PRESENCE optional
     ID id-E-DPCH-Information-RL-AdditionRegFDD
                                                                                                                    PRESENCE conditional }.
     ID id-E-DCH-FDD-Information
                                                 CRITICALITY reject EXTENSION E-DCH-FDD-Information
    -- This IE shall be present if E-DPCH Information is present
                                     ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-
RL-InformationList-RL-AdditionRgstFDD
AdditionRqstFDD}}
RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory }
RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE
   rL-ID
                                              RL-ID,
   c-ID
                                              C-ID,
    frameOffset
                                              FrameOffset,
    chipOffset
                                              ChipOffset,
    diversityControlField
                                              DiversityControlField,
    dl-CodeInformation
                                              FDD-DL-CodeInformation,
    initial DL-Transmission Power
                                             DI-Power
                                                                            OPTIONAL,
   maximumDL-Power
                                             DL-Power
                                                                            OPTIONAL,
   minimumDL-Power
                                             DL-Power
                                                                            OPTIONAL,
   not-Used-sSDT-CellIdentity
                                             NULL
                                                                            OPTIONAL,
    transmitDiversityIndicator
                                             TransmitDiversityIndicator
                                                                            OPTIONAL,
    iE-Extensions
                                              ProtocolExtensionContainer { {
                                                                           RL-InformationItem-RL-AdditionRqstFDD-ExtIEs} }
                                                                                                                            OPTIONAL.
    . . .
RL-InformationItem-RL-AdditionRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-DLReferencePower
                                                     CRITICALITY ignore EXTENSION DL-Power
                                                                                                                            PRESENCE optional
} |
     ID id-RL-Specific-DCH-Info
                                                     CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                            PRESENCE optional
    ID id-DelayedActivation
                                                     CRITICALITY reject EXTENSION DelayedActivation
                                                                                                                            PRESENCE optional
    { ID id-E-DCH-RL-Indication
                                                     CRITICALITY reject EXTENSION E-DCH-RL-Indication
                                                                                                                            PRESENCE optional
} |
    ID id-RL-Specific-E-DCH-Info
                                                     CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
                                                                                                                            PRESENCE optional
    { ID id-SynchronisationIndicator
                                                     CRITICALITY ignore EXTENSION SynchronisationIndicator
                                                                                                                            PRESENCE optional
},
E-DPCH-Information-RL-AdditionRegFDD ::= SEQUENCE {
   maxSet-E-DPDCHs
                                             Max-Set-E-DPDCHs,
   ul-PunctureLimit
                                             PunctureLimit,
    e-TFCS-Information
                                             E-TFCS-Information,
   e-TTI
                                             E-TTI,
   e-DPCCH-PO
                                             E-DPCCH-PO,
    e-RGCH-2-IndexStepThreshold
                                             E-RGCH-2-IndexStepThreshold,
    e-RGCH-3-IndexStepThreshold
                                             E-RGCH-3-IndexStepThreshold,
   hARO-Info-for-E-DCH
                                             HARO-Info-for-E-DCH,
   iE-Extensions
                                             ProtocolExtensionContainer { { E-DPCH-Information-RL-AdditionReqFDD-ExtIEs} }
                                                                                                                            OPTIONAL,
E-DPCH-Information-RL-AdditionRegFDD-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
                          ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL,
RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                         CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                            PRESENCE
mandatory } |
     ID id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD
                                                         CRITICALITY reject TYPE UL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional
    { ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD
                                                         CRITICALITY reject TYPE DL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional
} |
```

```
{ ID id-RL-Information-RL-AdditionRqstTDD
                                                    CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD
                                                                                                                  PRESENCE
mandatory },
   . . .
RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-TDD-Information
                                                                                                     PRESENCE optional } |
                                      CRITICALITY reject
                                                           EXTENSION HSDSCH-TDD-Information
                                      CRITICALITY reject
                                                                                                     PRESENCE conditional } |
   { ID id-HSDSCH-RNTI
                                                           EXTENSION HSDSCH-RNTI
   -- The IE shall be present if HS-PDSCH RL ID IE is present.
                                      CRITICALITY reject
                                                                                                     PRESENCE optional },
   { ID id-HSPDSCH-RL-ID
                                                           EXTENSION RL-ID
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-AdditionRgstTDD
                                                                                    OPTIONAL, -- Applicable to 3.84cps TDD only
                                          ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   PRESENCE optional } | -- Applicable to 1.28cps TDD only
   -- Applicable to 1.28cps TDD only
UL-DPCH-InformationList-RL-AdditionRgstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRgstTDD }}
UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
   { ID id-UL-DPCH-InformationItem-RL-AdditionRgstTDD
                                                           CRITICALITY
                                                                         notify
                                                                                                     TYPE UL-DPCH-InformationItem-
                        PRESENCE optional -- For 3.84Mcps TDD only
RL-AdditionRgstTDD
UL-DPCH-InformationItem-RL-AdditionRgstTDD ::= SEQUENCE
   repetitionPeriod
                                      RepetitionPeriod,
   repetitionLength
                                      RepetitionLength,
   tdd-DPCHOffset
                                      TDD-DPCHOffset,
   uL-Timeslot-Information
                                      UL-Timeslot-Information,
   iE-Extensions
                                      ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
                                                                                                                  OPTIONAL,
UL-DPCH-InformationItem-RL-AdditionRgstTDD-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
                                                                                  OPTIONAL, -- Applicable to 3.84Mcps TDD only
   iE-Extensions
                                   ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRgstTDD-ExtIEs} } OPTIONAL,
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-AdditionRgstTDD
                                                              CRITICALITY ignore
                                                                                      EXTENSION DL-Power
                                                                                                                          PRESENCE optional
     ID id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD
                                                              CRITICALITY reject
                                                                                                                         PRESENCE optional
                                                                                      EXTENSION TDD-TPC-DownlinkStepSize
     ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRgstTDD
                                                              CRITICALITY ignore
                                                                                                                         PRESENCE optional
                                                                                      EXTENSION DL-Power
    ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD
                                                                                                                         PRESENCE optional },
                                                              CRITICALITY ignore
                                                                                      EXTENSION DL-Power
    . . .
DL-DPCH-InformationList-RL-AdditionRgstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRgstTDD }}
DL-DPCH-InformationItemIE-RL-AdditionRgstTDD NBAP-PROTOCOL-IES ::= {
           id-DL-DPCH-InformationItem-RL-AdditionRgstTDD
                                                              CRITICALITY
                                                                              notify
                                                                                          TYPE
                                                                                                                 DL-DPCH-InformationItem-RL-
AdditionRgstTDD
                   PRESENCE mandatory }
DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                           RepetitionPeriod,
   repetitionLength
                                           RepetitionLength,
    tdd-DPCHOffset
                                           TDD-DPCHOffset.
    dL-Timeslot-Information
                                       DL-Timeslot-Information,
   iE-Extensions
                                               ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
   OPTIONAL,
DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-AdditionRgstTDD ::= SEQUENCE {
    rL-ID
                                               RL-ID,
   c-ID
                                               C-ID,
    frameOffset
                                               FrameOffset,
    diversityControlField
                                               DiversityControlField,
    initial-DL-Transmission-Power
                                               DL-Power
                                                                  OPTIONAL,
   maximumDL-Power
                                              DL-Power
                                                                  OPTIONAL,
   minimumDL-Power
                                               DI-Power
                                                                  OPTIONAL,
   dL-TimeSlotISCPInfo
                                               DL-TimeslotISCPInfo OPTIONAL,
                                                                              -- Applicable to 3.84Mcps TDD only
   iE-Extensions
                                               OPTIONAL,
RL-information-RL-AdditionRgstTDD-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
                                                                                                                            optional }|
                                                                                                                 PRESENCE
     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
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-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD ::= SEQUENCE {
   repetitionPeriod
                                        RepetitionPeriod,
   repetitionLength
                                        RepetitionLength,
   tdd-DPCHOffset
                                        TDD-DPCHOffset,
   dL-TimeslotLCR-Information
                                        DL-TimeslotLCR-Information,
   iE-Extensions
                                        OPTIONAL,
DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ****************
-- RADIO LINK ADDITION RESPONSE FDD
  *****************
RadioLinkAdditionResponseFDD ::= SEQUENCE
   protocolIEs
                         ProtocolIE-Container
                                               {{RadioLinkAdditionResponseFDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                               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 },
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-RL-AdditionRspFDD,
    diversityIndication
    sSDT-SupportIndicator
                                      SSDT-SupportIndicator,
   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 {
   rI.-ID
                                                  RL-ID,
   iE-Extensions
                                                  ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } }
                                                                                                                           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
   protocolIEs
                         ProtocolIE-Container
                                                {{RadioLinkAdditionResponseTDD-IEs}},
                         ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
   { ID
                                                       CRITICALITY ignore TYPE
                                                                                 CRNC-CommunicationContextID
                                                                                                                        PRESENCE
   mandatory } |
          id-RL-InformationResponse-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE
                                                                                 RL-InformationResponse-RL-AdditionRspTDD
   { ID
                                                                                                                        PRESENCE
                     -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
   optional }|
     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
   { ID id-HSDSCH-TDD-Information-Response
                                                          CRITICALITY ignore
                                                                                    EXTENSION HSDSCH-TDD-Information-Response
                                                                                                                             PRESENCE
optional},
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                                            RL-ID.
   uL-TimeSlot-ISCP-Info
                                            UL-TimeSlot-ISCP-Info,
   ul-PhysCH-SF-Variation
                                            UL-PhysCH-SF-Variation,
   dCH-Information
                                            DCH-Information-RL-AdditionRspTDD
                                                                                        OPTIONAL,
   dSCH-InformationResponseList
                                            DSCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                          OPTIONAL,
   uSCH-InformationResponseList
                                            USCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                          OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} }
                                                                                                                          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
                                              ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} }
   iE-Extensions
                                                                                                                       OPTIONAL,
CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Non-Combining-RL-AdditionRspTDD ::= SEQUENCE
   dCH-InformationResponse
                                          DCH-InformationResponse,
                                              ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs} } }
   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 ::=
     ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                            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
                                            OPTIONAL.
RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
     ****************
  RADIO LINK ADDITION FAILURE FDD
  *****************
RadioLinkAdditionFailureFDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{RadioLinkAdditionFailureFDD-IEs}},
                         ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                CRITICALITY ignore
                                                                     TYPE CRNC-CommunicationContextID
                                                                                                                     PRESENCE mandatory
     ID id-CauseLevel-RL-AdditionFailureFDD
                                                CRITICALITY ignore
                                                                     TYPE CauseLevel-RL-AdditionFailureFDD
                                                                                                                     PRESENCE mandatory
} |
   { ID id-CriticalityDiagnostics
                                                CRITICALITY ignore
                                                                     TYPE CriticalityDiagnostics
                                                                                                                     PRESENCE optional },
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-HS-DSCH-Serving-Cell-Change-Info-Response
                                                       CRITICALITY ignore EXTENSION HS-DSCH-Serving-Cell-Change-Info-Response
   PRESENCE optional } |
{ ID id-E-DCH-Serving-Cell-Change-Info-Response
                                                       CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response
   PRESENCE optional },
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
                      RLSpecificCauseList-RL-AdditionFailureFDD,
   . . .
GeneralCauseList-RL-AdditionFailureFDD ::= SEOUENCE {
   cause
   iE-Extensions
                                            ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} }
                                                                                                                          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-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD
                                                                                                                                                CRITICALITY
                                                                                                                                                                             ignore
                                                                                                                                                                                                                     TYPE Unsuccessful-RL-
InformationRespItem-RL-AdditionFailureFDD PRESENCE
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 ::= SEQUENCE (SIZE (1..maxNrOfRLs-2)) OF ProtocolIE-Single-Container {{ Successful-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationRespList-RL-InformationR
InformationRespItemIE-RL-AdditionFailureFDD }}
Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
                  id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD
                                                                                                                                         CRITICALITY
                                                                                                                                                                     ignore
                                                                                                                                                                                                                     TYPE Successful-RL-
InformationRespItem-RL-AdditionFailureFDD
                                                                                      PRESENCE
                                                                                                            mandatory}
Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
       rL-ID
                                                                                      RL-ID,
       rL-Set-ID
                                                                                      RL-Set-ID,
       received-total-wide-band-power
                                                                                      Received-total-wide-band-power-Value,
       diversitvIndication
                                                                                      DiversityIndication-RL-AdditionFailureFDD,
       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-RL-AdditionFailureFDD,
    combining
   non-Combining
                                   Non-Combining-RL-AdditionFailureFDD
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID
                                              RL-ID.
                                              ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } }
   iE-Extensions
                                                                                                                              OPTIONAL,
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                            PRESENCE optional },
Non-Combining-RL-AdditionFailureFDD ::= SEQUENCE
    dCH-InformationResponse
                                              DCH-InformationResponse,
   iE-Extensions
                                              ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs} }
                                                                                                                                    OPTIONAL,
    . . .
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                                      CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                            PRESENCE optional },
    . . .
       ******************
-- RADIO LINK ADDITION FAILURE TDD
__ ********************
RadioLinkAdditionFailureTDD ::= SEQUENCE {
                                                  {{RadioLinkAdditionFailureTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
                           ProtocolExtensionContainer {{RadioLinkAdditionFailureTDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                      CRITICALITY ignore
                                                                             TYPE CRNC-CommunicationContextID
                                                                                                                      PRESENCE mandatory }
           id-CauseLevel-RL-AdditionFailureTDD
     ID
                                                      CRITICALITY ignore
                                                                             TYPE CauseLevel-RL-AdditionFailureTDD
                                                                                                                      PRESENCE mandatory } |
     ID
           id-CriticalityDiagnostics
                                                      CRITICALITY ignore
                                                                             TYPE CriticalityDiagnostics
                                                                                                                      PRESENCE optional },
```

```
RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-AdditionFailureTDD,
   rLSpecificCause
                      RLSpecificCauseList-RL-AdditionFailureTDD,
GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
   iE-Extensions
                             OPTIONAL.
GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
   unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD
                                                           Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
   iE-Extensions
                                                           ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs} }
       OPTIONAL,
   . . .
RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-
AdditionFailureTDD } }
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD
   PRESENCE mandatory }
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD ::= SEQUENCE {
   rL-ID
                                        RL-ID,
   cause
   iE-Extensions
                                        ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs} }
   OPTIONAL,
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
```

```
-- RADIO LINK RECONFIGURATION PREPARE FDD
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{RadioLinkReconfigurationPrepareFDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IES ::=
    { ID id-NodeB-CommunicationContextID
                                                         CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                                PRESENCE
mandatory } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                                PRESENCE
optional }
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                                PRESENCE
optional }
    { ID id-FDD-DCHs-to-Modify
                                                         CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                                                                                PRESENCE
optional }
    { ID id-DCHs-to-Add-FDD
                                                         CRITICALITY reject TYPE DCH-FDD-Information
                                                                                                                                PRESENCE
optional }
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD
                                                                                                                                PRESENCE
optional }
    { ID id-RL-InformationList-RL-ReconfPrepFDD
                                                         CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD
                                                                                                                                PRESENCE
optional }|
    PRESENCE
optional },
RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SignallingBearerRequestIndicator
                                                  CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
                                                                                                                          PRESENCE optional
     ID id-HSDSCH-FDD-Information
                                                  CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                          PRESENCE optional
     ID id-HSDSCH-Information-to-Modify
                                                  CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
                                                                                                                          PRESENCE optional
                                                  CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
     ID id-HSDSCH-MACdFlows-to-Add
                                                                                                                          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-ReconfPrepFDD
                                                  CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfPrepFDD
     ID id-E-DCH-FDD-Information
                                                  CRITICALITY reject EXTENSION E-DCH-FDD-Information
                                                                                                                          PRESENCE optional
     ID id-E-DCH-FDD-Information-to-Modify
                                                  CRITICALITY reject EXTENSION E-DCH-FDD-Information-to-Modify
                                                                                                                          PRESENCE optional
     ID id-E-DCH-MACdFlows-to-Add
                                                  CRITICALITY reject EXTENSION E-DCH-MACdFlows-Information
                                                                                                                          PRESENCE optional
     ID id-E-DCH-MACdFlows-to-Delete
                                                  CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
                                                                                                                          PRESENCE optional
     ID id-Serving-E-DCH-RL-ID
                                                  CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                          PRESENCE optional }
     ID id-F-DPCH-Information-RL-ReconfPrepFDD
                                                  CRITICALITY reject EXTENSION F-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                          PRESENCE optional },
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
    ul-ScramblingCode
                                                  UL-ScramblingCode
                                                                                    OPTIONAL,
    ul-SIR-Target
                                                                                    OPTIONAL,
                                                  UL-SIR
   minUL-ChannelisationCodeLength
                                                  MinUL-ChannelisationCodeLength
                                                                                    OPTIONAL,
```

```
maxNrOfUL-DPDCHs
                                                MaxNrOfUL-DPDCHs
                                                                                  OPTIONAL,
   -- This IE shall be present if minUL-ChannelisationCodeLength Ie is set to 4
   ul-PunctureLimit
                                                PunctureLimit
                                                                                  OPTIONAL.
   t.FCS
                                                TFCS
                                                                                  OPTIONAL,
   ul-DPCCH-SlotFormat
                                                UL-DPCCH-SlotFormat
                                                                                  OPTIONAL.
   diversityMode
                                                DiversityMode
                                                                                  OPTIONAL,
   not-Used-sSDT-CellIDLength
                                                NULL
                                                                                  OPTIONAL,
   not-Used-s-FieldLength
                                                                                  OPTIONAL,
   iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                            OPTIONAL,
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation
                                                                                                                       PRESENCE optional },
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
                                                                                  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
                                                OPTIONAL,
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD CRITICALITY reject EXTENSION DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE optional
DL-DPCH-Power-Information-RL-ReconfPrepFDD ::= SEQUENCE
   powerOffsetInformation
                                         PowerOffsetInformation-RL-ReconfPrepFDD,
   fdd-TPC-DownlinkStepSize
                                         FDD-TPC-DownlinkStepSize,
   innerLoopDLPCStatus
                                         InnerLoopDLPCStatus,
                                         ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                               OPTIONAL.
   . . .
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                         PowerOffset,
   pO2-ForTPC-Bits
                                         PowerOffset,
   pO3-ForPilotBits
                                         PowerOffset,
   iE-Extensions
```

```
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dCH-ID
                                                  DCH-ID.
                                                  ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} }
   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 ::= {
   { ID id-RL-InformationItem-RL-ReconfPrepFDD
                                                         CRITICALITY
                                                                                                               RI-InformationItem-RI-
                                                                         reject
                                                                                        TYPE
              PRESENCE mandatory }
ReconfPrepFDD
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
                                                  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'
                                                  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 }
                                                                                                                       PRESENCE optional }
     ID id-E-DCH-RL-Indication
                                                  CRITICALITY reject EXTENSION E-DCH-RL-Indication
                                                  CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
                                                                                                                       PRESENCE optional },
    { ID id-RL-Specific-E-DCH-Info
E-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
   maxSet-E-DPDCHs
                                              Max-Set-E-DPDCHs
                                                                                                                          OPTIONAL,
   ul-PunctureLimit
                                              PunctureLimit
                                                                                                                          OPTIONAL,
```

```
e-TFCS-Information
                                                  E-TFCS-Information
                                                                                                                           OPTIONAL,
   e-TTI
                                              E - 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-ReconfPrepFDD-ExtIEs} }
                                                                                                                           OPTIONAL,
E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
                                      PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
    powerOffsetInformation
    fdd-TPC-DownlinkStepSize
                                      FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                      LimitedPowerIncrease,
   innerLoopDLPCStatus
                                      InnerLoopDLPCStatus,
   iE-Extensions
                                      ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                              OPTIONAL.
    . . .
F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE {
   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 {
   protocolIEs
                           ProtocolIE-Container
                                                  {{RadioLinkReconfigurationPrepareTDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                              CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                           PRESENCE mandatory
} |
```

```
{ ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }|
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
    PRESENCE optional }
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    PRESENCE optional } |
     ID id-TDD-DCHs-to-Modify
                                                                CRITICALITY reject TYPE TDD-DCHs-to-Modify
                                                                                                                               PRESENCE optional }
     ID id-DCHs-to-Add-TDD
                                                                CRITICALITY reject TYPE DCH-TDD-Information
                                                                                                                               PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD
                                                                                                                               PRESENCE optional }
     ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE optional } |
     ID id-DSCHs-to-Add-TDD
                                                                CRITICALITY reject TYPE DSCH-TDD-Information
                                                                                                                               PRESENCE optional } |
     ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional }
    { ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE optional } |
     ID id-USCH-Information-Add
                                                                                                                               PRESENCE optional } |
                                                                CRITICALITY reject TYPE USCH-Information
     ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional } |
    { ID id-RL-Information-RL-ReconfPrepTDD
                                                                CRITICALITY reject TYPE RL-Information-RL-ReconfPrepTDD
                                                                                                                               PRESENCE optional },
-- This RL Information is the for the 1st RL IE repetition
RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
           id-SignallingBearerRequestIndicator
                                                    CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
                                                                                                                            PRESENCE optional }
           id-HSDSCH-TDD-Information
                                                    CRITICALITY reject EXTENSION HSDSCH-TDD-Information
                                                                                                                            PRESENCE optional
           id-HSDSCH-Information-to-Modify
                                                    CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
                                                                                                                            PRESENCE optional
     TD
                                                    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                            PRESENCE optional
           id-HSDSCH-MACdFlows-to-Add
                                                                                                                            PRESENCE optional }
     TD
           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 }
     ID
           id-PDSCH-RL-ID
                                                    CRITICALITY ignore EXTENSION RL-ID
                                                                                                                            PRESENCE optional }
                                                            CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD
     ID
           id-multiple-RL-Information-RL-ReconfPrepTDD
                                                                                                                                     PRESENCE
optional
-- This RL Information is the for the 2nd and beyond repetition of RL information,
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,
    t.FCS
                                                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.
-- 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.
    { 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,
MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationAddListIE-RL-
ReconfPrepTDD
--Includes the 2nd through the max number of radio link repetitions.
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE
                                               UL-DPCH-InformationAddList-RL-ReconfPrepTDD
   ul-DPCH-InformationList
                                                                                               OPTIONAL,
    ul-DPCH-InformationListLCR
                                               UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD OPTIONAL.
    ul-sir-target
                                               UL-SIR
                                                                                               OPTIONAL,
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
    tDD-TPC-UplinkStepSize-LCR
                                               TDD-TPC-UplinkStepSize-LCR
                                                                                               OPTIONAL,
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
    rL-ID
                                               RL-ID
                                               ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
       OPTIONAL,
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
```

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{ 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 ::= {
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,
    tFCS
                                                TFCS
                                                                                                                     OPTIONAL,
    tFCI-Coding
                                                TFCI-Coding
                                                                                                                     OPTIONAL,
    punctureLimit
                                                PunctureLimit
                                                                                                                     OPTIONAL,
    ul-DPCH-InformationAddList
                                                UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                     OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    ul-DPCH-InformationModifyList
                                                UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
    ul-DPCH-InformationDeleteList
                                                UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                     OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-
InformationModifvList-RL-ReconfPrepTDD
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-DPCH-LCR-InformationModify-AddList
                                                    CRITICALITY reject
                                                                                         UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
                                                                            EXTENSION
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
```

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-- 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
                                                                              EXTENSION
                                                                                             MultipleRL-UL-DPCH-InformationModifyList-RL-
ReconfPrepTDD PRESENCE optional },
-- This DPCH Information is the for the 2nd and beyond RL repetition,
    . . .
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 }
MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationModifyListIE-RL-
ReconfPrepTDD
--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-LCR-InformationModify-AddList-RL-ReconfPrepTDD
   ul-DPCH-InformationAddListLCR
                                                                                                                 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 ::= {
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
                                          RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                          RepetitionLength,
    tdd-DPCHOffset
                                          TDD-DPCHOffset,
    uL-Timeslot-Information
                                          UL-Timeslot-Information,
```

```
ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL.
UL-DPCH-InformationModify-AddItem-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 ::= {
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-
ReconfPrepTDD
                   PRESENCE mandatory }
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,
                                           ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    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-
                   PRESENCE optional }. -- Applicable to 1.28Mcps TDD only
Reconf PrepTDD
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
                                                                OPTIONAL,
    tFCI-Presence
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                         UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                    OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-
ReconfPrepTDD
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
                                            DPCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
    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
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
       OPTIONAL,
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF UL-Code-InformationModify-ModifyItem-RL-
Reconf PrepTDDLCR
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR ::= SEOUENCE
    dPCH-TD
                                            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 PRESENCE
optional},
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
    iE-Extensions
                                                 ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
\textbf{UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD} ::= \texttt{SEQUENCE} \ (\texttt{SIZE} \ (\texttt{1..maxNrOfCCTrCHs})) \ \texttt{OF} \ \texttt{UL-CCTrCH-InformationDeleteLitem-RL-ReconfPrepTDD}
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                 CCTrCH-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    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 ::= SEOUENCE {
    cCTrCH-ID
                                                     CCTrCH-ID,
    tFCS
                                                     TFCS,
    tFCI-Coding
                                                     TFCI-Coding
    punctureLimit
                                                     PunctureLimit,
    cCTrCH-TPCList
                                                     CCTrCH-TPCAddList-RL-ReconfPrepTDD
                                                                                                                        OPTIONAL,
    dl-DPCH-InformationList
                                                     DL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                                       OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationAddList-RL-ReconfPrepTDD
```

```
ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL.
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
                                                                        CRITICALITY reject EXTENSION DL-DPCH-LCR-InformationAddList-RL-
                   PRESENCE optional } -- Applicable to 1.28Mcps TDD only
-- 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-ul-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,
MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationAddListIE-RL-
Reconf PrepTDD
--Includes the 2nd through the max number of radio link information repetitions.
MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEOUENCE {
    dl-DPCH-InformationList
                                                               DL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                                    OPTIONAL,
    dl-DPCH-InformationListLCR
                                                                DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
                                                                                                                    OPTIONAL,
    cCTrCH-Initial-DL-Power
                                                                                                                    OPTIONAL,
                                                               DL-Power
    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} }
       OPTIONAL,
    . . .
MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
                                                                                                                      -- Applicable to 3.84Mcps TDD
only
```

```
::= SEOUENCE {
CCTrCH-TPCAddItem-RL-ReconfPrepTDD
   cCTrCH-ID
                                         CCTrCH-ID.
   iE-Extensions
                                         OPTIONAL.
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
   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,
                                         ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   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,
                                         ProtocolExtensionContainer { { DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
DL-DPCH-LCR-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.
   tFCS
                                                TFCS
                                                                                                            OPTIONAL.
   tFCI-Coding
                                                TFCI-Coding
                                                                                                            OPTIONAL.
   punctureLimit
                                                PunctureLimit
                                                                                                            OPTIONAL,
                                                CCTrCH-TPCModifyList-RL-ReconfPrepTDD
   cCTrCH-TPCList
                                                                                                            OPTIONAL,
   dl-DPCH-InformationAddList
                                                DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                            OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
```

```
dl-DPCH-InformationModifyList
                                                   DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                 OPTIONAL,
-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-
InformationModifyList-RL-ReconfPrepTDD
   dl-DPCH-InformationDeleteList
                                                   DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                 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
                                                   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-
InformationModifyList-RL-ReconfPrepTDD
    { ID id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional}
-- This Step Size Information is the for the first RL repetition, step size information for RL repetitions 2 and on, should be defined in
MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD
    { ID id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                          CRITICALITY ignore EXTENSION DL-Power
                                                                                                                    PRESENCE optional }
-- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
DPCH-InformationModifyList-RL-ReconfPrepTDD
    { ID id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                                                                    PRESENCE optional } |
                                                                          CRITICALITY ignore EXTENSION DL-Power
-- 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,
    . . .
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
                                                                  DL-Power
                                                                                                                          OPTIONAL,
   rL-ID
                                                                  RL-ID
                                                                              OPTIONAL,
    iE-Extensions
                                                                  ProtocolExtensionContainer { { MultipleRL-DL-DPCH-InformationModifyListIE-RL-
ReconfPrepTDD-ExtIEs} }
                           OPTIONAL,
MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
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-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 ::= {
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-
Reconf PrepTDD
                    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 },
DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationModify-ModifyItem-RL-
Reconf PrepTDD
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                              ::= SEOUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                                 OPTIONAL.
                                            TFCI-Presence
    tFCI-Presence
                                                                     OPTIONAL,
    dL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                         DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                       OPTIONAL.
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Timeslot-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-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
                                                                 ::= SEOUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                    OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
    OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
       OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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
                                            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 PRESENCE
optional},
    . . .
DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD
}}
DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                TYPE DL-DPCH-InformationModify-DeleteListIE-RL-
Reconf PrepTDD
                    PRESENCE mandatory }
DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-
ReconfPrepTDD
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEOUENCE {
    APCH-ID
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
   cCTrCH-ID
                                                  CCTrCH-ID.
                                                  ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dCH-ID
   iE-Extensions
                                              OPTIONAL,
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dscH-ID
                                              DSCH-ID.
   cCTrCH-ID
                                              CCTrCH-ID
                                                                     OPTIONAL,
   -- DL CCTrCH in which the DSCH is mapped
    transportFormatSet
                                              TransportFormatSet
                                                                     OPTIONAL,
    allocationRetentionPriority
                                              AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                              FrameHandlingPriority OPTIONAL,
    toAWS
                                              ToAWS
                                                                     OPTIONAL,
                                              ToAWE
                                                                     OPTIONAL,
    toAWE
    transportBearerRequestIndicator
                                              TransportBearerRequestIndicator,
                                              ProtocolExtensionContainer { | DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
                                      CRITICALITY ignore EXTENSION BindingID
    { ID id-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.
    . . .
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
                                              ProtocolExtensionContainer { | DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
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
                                                                          OPTIONAL,
                                                                                      -- UL CCTrCH in which the USCH is mapped
    cCTrCH-ID
    transportBearerRequestIndicator
                                              TransportBearerRequestIndicator,
   iE-Extensions
                                              ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
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 {
   rI.-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-Init.DL-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
   { ID id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-TimeslotISCPInfoLCR
                                                                                                               PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only
  *****************
-- RADIO LINK RECONFIGURATION READY
  ******************
RadioLinkReconfigurationReady ::= SEQUENCE {
                                                {{RadioLinkReconfigurationReady-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}}
                                                                                                            OPTIONAL,
RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                                   CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                  PRESENCE mandatory } |
     ID id-RL-InformationResponseList-RL-ReconfReady
                                                   CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReady PRESENCE optional }
    ID id-CriticalityDiagnostics
                                                   CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                  PRESENCE optional },
RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-TargetCommunicationControlPortID
                                            CRITICALITY ignore
                                                                  EXTENSION CommunicationControlPortID
                                                                                                            PRESENCE optional }
    { ID id-HSDSCH-FDD-Information-Response
                                            CRITICALITY ignore
                                                                  EXTENSION HSDSCH-FDD-Information-Response
                                                                                                            PRESENCE optional }
   -- FDD only
   { ID id-HSDSCH-TDD-Information-Response
                                            CRITICALITY ignore
                                                                  EXTENSION HSDSCH-TDD-Information-Response
                                                                                                             PRESENCE optional },
   -- TDD only
   . . .
                                         ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-
RL-InformationResponseList-RL-ReconfReady
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
                                               NULL
                                                                                        OPTIONAL,
```

```
ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs} }
   iE-Extensions
   OPTIONAL.
RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-UpdatedIndicator
                                                    CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
                                                                                                                          PRESENCE optional
} |
     ID id-E-DCH-RL-Set-ID
                                                    CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                          PRESENCE optional
    { ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                    CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                          PRESENCE optional
} |
    { ID id-E-DCH-FDD-Information-Response
                                                                                                                       PRESENCE optional },
                                                    CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
DCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    TYPE DCH-InformationResponse
                                                                                      PRESENCE mandatory }
DSCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
     ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                    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
                                                                                         PRESENCE mandatory }
       -- 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 {
   generalCause
                    GeneralCauseList-RL-ReconfFailure,
                    RLSpecificCauseList-RL-ReconfFailure,
   rLSpecificCause
GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
   cause
                                         Cause,
                                         ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs} }
   iE-Extensions
                                                                                                                 OPTIONAL,
GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
   rL-ReconfigurationFailureList-RL-ReconfFailure
                                                RL-ReconfigurationFailureList-RL-ReconfFailure
                                                                                                      OPTIONAL,
                                                iE-Extensions
   OPTIONAL,
   . . .
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-
ReconfigurationFailureItemIE-RL-ReconfFailure}}
RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
   { 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
   protocolIEs
                        ProtocolIE-Container
                                              {{RadioLinkReconfigurationCommit-IEs}},
                        ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
RadioLinkReconfigurationCommit-IEs NBAP-PROTOCOL-IES ::= {
         id-NodeB-CommunicationContextID
                                              CRITICALITY ignore TYPE NodeB-CommunicationContextID
                                                                                                      PRESENCE mandatory }
     TD
          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 ::= {
    *****************
-- RADIO LINK RECONFIGURATION CANCEL
__ *********************
RadioLinkReconfigurationCancel ::= SEQUENCE
   protocolIEs
                        ProtocolIE-Container
                                              {{RadioLinkReconfigurationCancel-IEs}},
                        ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
RadioLinkReconfigurationCancel-IES NBAP-PROTOCOL-IES ::= {
   { ID
          id-NodeB-CommunicationContextID
                                              CRITICALITY
                                                                             NodeB-CommunicationContextID
                                                                                                              PRESENCE mandatory },
                                                            ignore
                                                                      TYPE
   . . .
RadioLinkReconfigurationCancel-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *******************
-- RADIO LINK RECONFIGURATION REQUEST FDD
__ *********************
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                              {{RadioLinkReconfigurationRequestFDD-IEs}},
                        ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                         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-ReconfRgstFDD
                                                                                                                           PRESENCE optional
     ID id-DL-DPCH-Information-RL-ReconfRgstFDD
                                                          CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD
                                                                                                                           PRESENCE optional
     ID id-FDD-DCHs-to-Modify
                                                          CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                                                                           PRESENCE optional
     ID id-DCHs-to-Add-FDD
                                                          CRITICALITY reject TYPE DCH-FDD-Information
                                                                                                                           PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfRqstFDD
                                                          CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD
                                                                                                                           PRESENCE optional
     ID id-RL-InformationList-RL-ReconfRgstFDD
                                                          CRITICALITY reject TYPE RL-InformationList-RL-ReconfRgstFDD
                                                                                                                           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
     ID id-HSDSCH-MACdFlows-to-Delete
                                                      CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                        PRESENCE optional
     ID id-HSDSCH-RNTI
                                                      CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                        PRESENCE conditional } |
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
                                                                                                                        PRESENCE optional
     ID id-HSPDSCH-RL-ID
                                                      CRITICALITY reject EXTENSION RL-ID
                                                                                                                        PRESENCE optional
     ID id-E-DPCH-Information-RL-ReconfRgstFDD
                                                      CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfRgstFDD
                                                                                                                        PRESENCE optional
     ID id-E-DCH-FDD-Information
                                                      CRITICALITY reject EXTENSION E-DCH-FDD-Information
     ID id-E-DCH-FDD-Information-to-Modify
                                                      CRITICALITY reject EXTENSION E-DCH-FDD-Information-to-Modify
                                                                                                                        PRESENCE optional
     ID id-E-DCH-MACdFlows-to-Add
                                                      CRITICALITY reject EXTENSION E-DCH-MACdFlows-Information
                                                                                                                        PRESENCE optional
     ID id-E-DCH-MACdFlows-to-Delete
                                                      CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete
                                                                                                                        PRESENCE optional
     ID id-Serving-E-DCH-RL-ID
                                                                                                                        PRESENCE optional },
                                                      CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
   ul-TFCS
                                                  TFCS
                                                                  OPTIONAL,
                                                  ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
UL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    PRESENCE optional },
    . . .
DL-DPCH-Information-RL-ReconfRgstFDD ::= SEOUENCE
   dl-TFCS
                                                  TFCS
                                                                                         OPTIONAL.
    tFCI-SignallingMode
                                                  TFCI-SignallingMode
                                                                                         OPTIONAL,
   limitedPowerIncrease
                                                  LimitedPowerIncrease
                                                                                         OPTIONAL,
   iE-Extensions
                                                  ProtocolExtensionContainer { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DCH-DeleteList-RL-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRgstFDD
DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
   dCH-TD
                                                 DCH-ID.
                                                 ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } }
   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-RL-InformationItem-RL-ReconfRqstFDD
                                                            CRITICALITY
                                                                           reject
                                                                                          TYPE
                                                                                                             RL-InformationItem-RL-
ReconfRastFDD
                      PRESENCE
                                 mandatory}
RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE
   rL-ID
                                             RL-ID,
   maxDL-Power
                                             DL-Power
                                                            OPTIONAL,
   minDL-Power
                                             DL-Power
                                                            OPTIONAL.
                                             FDD-DL-CodeInformation
   dl-CodeInformation
-- 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,
   . . .
ID id-DLReferencePower
                                     CRITICALITY ignore
                                                            EXTENSION DL-Power
                                                                                                                  PRESENCE optional }
     ID id-RL-Specific-DCH-Info
                                     CRITICALITY ignore
                                                                                                                  PRESENCE optional }
                                                            EXTENSION RL-Specific-DCH-Info
     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 },
E-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
   maxSet-E-DPDCHs
                                                                                                                  OPTIONAL
                                     Max-Set-E-DPDCHs
   ul-PunctureLimit
                                     PunctureLimit
                                                                                                                  OPTIONAL,
                                     E-TFCS-Information
                                                                                                                  OPTIONAL,
   e-TFCS-Information
   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-ReconfRqstFDD-ExtIEs} }
                                                                                                                  OPTIONAL,
```

```
E-DPCH-Information-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK RECONFIGURATION REQUEST TDD
  *****************
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                   {{RadioLinkReconfigurationRequestTDD-IEs}},
   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-ReconfRqstTDD
                                                              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-ReconfRqstTDD
                                                              CRITICALITY reject TYPE RL-Information-RL-ReconfRqstTDD
                                                                                                                             PRESENCE optional },
-- This RL-Information-RL-ReconfRqstTDD is the first RL information repetition in the RL-Information List. Repetition 2 and on, should be defined
in Multiple-RL-Information-RL-ReconfRqstTDD,
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SignallingBearerRequestIndicator
                                                       CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }
     ID id-multiple-RL-Information-RL-ReconfRqstTDD
                                                                  CRITICALITY reject EXTENSION Multiple-RL-Information-RL-ReconfRgstTDD
    PRESENCE optional } |
--Includes the 2nd through the max number of radio link information repetitions.
     ID id-HSDSCH-TDD-Information
                                                      CRITICALITY reject EXTENSION HSDSCH-TDD-Information
                                                                                                                       PRESENCE optional }
    { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised
                                                                                                                                  PRESENCE
optional }|
     ID id-HSDSCH-MACdFlows-to-Add
                                                       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                       PRESENCE optional }
     ID id-HSDSCH-MACdFlows-to-Delete
                                                       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                       PRESENCE optional }
    { ID id-HSDSCH-RNTI
                                                       CRITICALITY reject EXTENSION HSDSCH-RNTI
                                                                                                                       PRESENCE conditional } |
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
    { ID id-HSPDSCH-RL-ID
                                                      CRITICALITY reject EXTENSION RL-ID
                                                                                                                       PRESENCE optional },
```

```
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationModifyItemIE-RL-ReconfRgstTDD}}
UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
           id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD
    PRESENCE mandatory
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID.
   tFCS
                                                    TFCS
                                                                    OPTIONAL,
    punctureLimit
                                                    PunctureLimit
                                                                    OPTIONAL,
                                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} }
    iE-Extensions
   OPTIONAL.
UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-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 ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
           id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
                                                                        CRITICALITY
                                                                                        notify
                                                                                                                       TYPE UL-CCTrCH-
InformationDeleteItem-RL-ReconfRgstTDD
                                            PRESENCE
                                                        mandatory }
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID.
   iE-Extensions
                                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
   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-
InformationModifyItemIE-RL-ReconfRqstTDD}}
DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
           id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD
                                                                        CRITICALITY
                                                                                        notify
                                                                                                                       TYPE DL-CCTrCH-
InformationModifyItem-RL-ReconfRqstTDD
                                            PRESENCE
                                                       mandatory}
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID,
    tFCS
                                                    TFCS
                                                                    OPTIONAL,
    punctureLimit
                                                    PunctureLimit
                                                                    OPTIONAL,
```

```
ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   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-ReconfRqstTDD.
   PRESENCE optional }
-- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-
CCTrCH-InformationModifyList-RL-ReconfRgstTDD.
    { ID id-CCTrCH-Minimum-DL-Power-InformationModify-RL-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-ReconfRqstTDD.
    { ID id-RL-ID
                                                               CRITICALITY ignore EXTENSION
                                                                                                             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-ReconfRqstTDD ::= SEQUENCE (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-ReconfRgstTDD ::= 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-ReconfRqstTDD
                                                            DI-Power
                                                                                                                OPTIONAL,
   rL-ID
                                                            RI.-TD
                                                                                                                OPTIONAL,
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE
   dL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
                                                               DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD OPTIONAL,
   iE-Extensions
                                      OPTIONAL,
   . . .
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfRqstTDD
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD
                                                         ::= SEQUENCE {
   timeSlotLCR
                                      TimeSlotLCR.
                                      DL-Power
   maxPowerLCR
                                                 OPTIONAL,
```

```
OPTIONAL,
   minPowerLCR
                                          DL-Power
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRgstTDD-ExtIEs} }
       OPTIONAL.
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
          id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
                                                                 CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
   PRESENCE
               mandatory}
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   cCTrCH-ID
   iE-Extensions
                                                  ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
   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
                                                  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-ReconfRgstTDD ::= SEOUENCE {
   rL-ID
                                              RL-ID,
   maxDL-Power
                                              DL-Power
                                                             OPTIONAL.
   minDL-Power
                                              DL-Power
                                                             OPTIONAL,
   iE-Extensions
                                              OPTIONAL.
    . . .
RL-InformationItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-RL-Specific-DCH-Info
                                      CRITICALITY ignore
                                                             EXTENSION
                                                                        RL-Specific-DCH-Info
                                                                                                                PRESENCE
                                                                                                                           optional }|
```

```
{ ID id-UL-Synchronisation-Parameters-LCR
                                                      CRITICALITY ignore
                                                                             EXTENSION UL-Synchronisation-Parameters-LCR
                                                                                                                              PRESENCE
   optional
               }, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  *****************
-- RADIO LINK RECONFIGURATION RESPONSE
   *******************
RadioLinkReconfigurationResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{RadioLinkReconfigurationResponse-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
                                                                                                                  OPTIONAL,
RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::=
           id-CRNC-CommunicationContextID
                                                          CRITICALITY ignore
                                                                                 TYPE
                                                                                         CRNC-CommunicationContextID
                                                                                                                                    PRESENCE
   mandatory }
   { ID
           id-RL-InformationResponseList-RL-ReconfRsp
                                                          CRITICALITY ignore
                                                                                 TYPE
                                                                                         RL-InformationResponseList-RL-ReconfRsp
                                                                                                                                      PRESENCE
    optional
           id-CriticalityDiagnostics
    { ID
                                                          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
                                                                                                                  PRESENCE optional }
                                              CRITICALITY ignore
                                                                     EXTENSION HSDSCH-FDD-Information-Response
    -- FDD only
   { ID id-HSDSCH-TDD-Information-Response
                                                                                                                  PRESENCE optional },
                                              CRITICALITY ignore
                                                                     EXTENSION HSDSCH-TDD-Information-Response
    -- TDD only
    . . .
RL-InformationResponseList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationResponseItemIE-RL-
ReconfRsp } }
RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
           id-RL-InformationResponseItem-RL-ReconfRsp
                                                             CRITICALITY
                                                                             ignore
                                                                                            TYPE
                                                                                                                RL-InformationResponseItem-RL-
                   PRESENCE
ReconfRsp
                              mandatory}
RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   rL-ID
                                              RL-ID,
    dCH-InformationResponseList-RL-ReconfRsp
                                              DCH-InformationResponseList-RL-ReconfRsp
                                                                                                                                 OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
ID id-DL-PowerBalancing-UpdatedIndicator
                                                   CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
                                                                                                                        PRESENCE optional
   -- FDD only
   { ID id-E-DCH-RL-Set-ID
                                                   CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                        PRESENCE optional
} |
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                   CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                        PRESENCE optional
    { ID id-E-DCH-FDD-Information-Response
                                                   CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                      PRESENCE optional },
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}},
                         ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}
   protocolExtensions
                                                                                                           OPTIONAL,
RadioLinkDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                                       CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                   PRESENCE mandatory }
          id-CRNC-CommunicationContextID
                                                       CRITICALITY reject TYPE CRNC-CommunicationContextID
                                                                                                                   PRESENCE mandatory }
     ID
                                                                                                                   PRESENCE mandatory },
    ID
          id-RL-informationList-RL-DeletionRgst
                                                       CRITICALITY notify TYPE RL-informationList-RL-DeletionRqst
RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-informationList-RL-DeletionRgst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-informationItemIE-RL-DeletionRgst}}
RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= {
          id-RL-informationItem-RL-DeletionRgst
                                                                                                           RL-informationItem-RL-
   { ID
                                                       CRITICALITY
                                                                      notify
                                                                                     TYPE
DeletionRast
                         PRESENCE
                                    mandatory }
RL-informationItem-RL-DeletionRqst ::= SEQUENCE
                                            iE-Extensions
                                                                                                                     OPTIONAL,
```

```
RL-informationItem-RL-DeletionRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK DELETION RESPONSE
  *********************
RadioLinkDeletionResponse ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{RadioLinkDeletionResponse-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}}
                                                                                                               OPTIONAL.
RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                    PRESENCE mandatory } |
                                                                                                                    PRESENCE optional },
          id-CriticalityDiagnostics
                                                CRITICALITY ignore TYPE CriticalityDiagnostics
    { ID
RadioLinkDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- DL POWER CONTROL REQUEST FDD
        ************
DL-PowerControlRequest ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{DL-PowerControlRequest-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}}
                                                                                                            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
                                            CRITICALITY ignore TYPE DL-Power
                                                                                                               PRESENCE conditional)
   -- This IE shall be present if the Adjustment Type IE is set to 'Common'
    { ID id-InnerLoopDLPCStatus
                                            CRITICALITY ignore TYPE InnerLoopDLPCStatus
                                                                                                               PRESENCE optional }
                                            CRITICALITY ignore TYPE DL-ReferencePowerInformationList-DL-PC-Rqst
                                                                                                              PRESENCE conditional }
   { ID id-DLReferencePowerList-DL-PC-Rqst
   -- 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
                                                                                                               PRESENCE conditional } |
                                            CRITICALITY ignore TYPE AdjustmentPeriod
   -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
   { ID id-AdjustmentRatio
                                          CRITICALITY ignore TYPE ScaledAdjustmentRatio
                                                                                                               PRESENCE conditional },
   -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
```

```
DL-PowerControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DL-ReferencePowerInformationList-DL-PC-Rgst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{DL-
ReferencePowerInformationItemIE-DL-PC-Rqst }}
DL-ReferencePowerInformationItemIE-DL-PC-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-DL-ReferencePowerInformationItem-DL-PC-Rqst
                                                                          ignore
                                                                                            DL-ReferencePowerInformationItem-DL-PC-Rqst
    PRESENCE
               mandatory
DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
    dl-ReferencePower
                                          DL-Power,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs } }
                                                                                                                                OPTIONAL,
DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- DL POWER TIMESLOT CONTROL REQUEST TDD
__ *********************
DL-PowerTimeslotControlRequest ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                 {{DL-PowerTimeslotControlRequest-IEs}},
                          ProtocolExtensionContainer {{DL-PowerTimeslotControlRequest-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL,
DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                                 CRITICALITY ignore
                                                                                    NodeB-CommunicationContextID
                                                                                                                          PRESENCE mandatory
    { ID id-TimeslotISCPInfo
                                  CRITICALITY ignore
                                                                                            PRESENCE optional },
                                                             TYPE
                                                                     DL-TimeslotISCPInfo
    -- Mandatory for 3.84Mcps 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
     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 {
                        ProtocolIE-Container
                                              {{DedicatedMeasurementInitiationRequest-IEs}},
   protocolIEs
   protocolExtensions
                        ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
                                                                                                        OPTIONAL,
   . . .
DedicatedMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                             CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                           PRESENCE mandatory
     ID id-MeasurementID
                                                                                                           PRESENCE mandatory
                                             CRITICALITY reject TYPE MeasurementID
     PRESENCE mandatory
     ID id-DedicatedMeasurementType
                                             CRITICALITY reject TYPE DedicatedMeasurementType
                                                                                                           PRESENCE mandatory
                                             CRITICALITY reject TYPE MeasurementFilterCoefficient
     ID id-MeasurementFilterCoefficient
                                                                                                           PRESENCE optional }
     ID id-ReportCharacteristics
                                             CRITICALITY reject TYPE ReportCharacteristics
                                                                                                           PRESENCE mandatory
     ID id-CFNReportingIndicator
                                             CRITICALITY reject TYPE FNReportingIndicator
                                                                                                           PRESENCE mandatory
                                             CRITICALITY reject TYPE CFN
                                                                                                           PRESENCE optional } ,
    ID id-CFN
   . . .
DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
         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-MeasurementRecoveryBehavior
                                                CRITICALITY ignore
                                                                             EXTENSION MeasurementRecoveryBehavior
                                                                                                                  PRESENCE optional
   },
   . . .
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
   rL
                            RL-DM-Rqst,
                                                 -- for FDD only
   rLS
                            RL-Set-DM-Rqst,
   all-RL
                            AllRL-DM-Rgst,
   all-RLS
                            AllRL-Set-DM-Rgst,
                                                 -- for FDD only
   . . .
RL-DM-Rqst ::= SEQUENCE {
   rL-InformationList
                                   RL-InformationList-DM-Rqst,
   iE-Extensions
                                   OPTIONAL,
RLItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
RL-InformationList-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rqst }}
```

```
RL-InformationItemIE-DM-Rqst NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rgst ::= SEQUENCE {
      rL-ID
                                 RL-ID,
      dPCH-ID
                                 DPCH-ID
                                                  OPTIONAL, -- for TDD only
                                 iE-Extensions
                                                                                                   OPTIONAL,
RL-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-PUSCH-Info-DM-Rgst
                              CRITICALITY reject
                                                        EXTENSION
                                                                  PUSCH-Info-DM-Rgst
                                                                                                   PRESENCE optional } |
   -- TDD only
   { ID id-HSSICH-Info-DM-Rqst
                              CRITICALITY reject
                                                                                                   PRESENCE optional },
                                                        EXTENSION
                                                                  HSSICH-Info-DM-Rast
   -- TDD only
   . . .
PUSCH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID
HSSICH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID
RL-Set-DM-Rast ::= SEOUENCE {
   rL-Set-InformationList-DM-Rqst
                                    RL-Set-InformationList-DM-Rgst,
   iE-Extensions
                                    OPTIONAL,
RL-SetItem-DM-Rqst-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-Rgst-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllRL-DM-Rgst ::= NULL
AllRL-Set-DM-Rqst ::= NULL
__ *********************
-- DEDICATED MEASUREMENT INITIATION RESPONSE
```

__ *******************

```
DedicatedMeasurementInitiationResponse ::= SEQUENCE
   protocolIEs
                       ProtocolIE-Container
                                           {{DedicatedMeasurementInitiationResponse-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
                                                                                                  OPTIONAL.
DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
    ID id-CRNC-CommunicationContextID
                                           CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                  PRESENCE mandatory
    ID id-MeasurementID
                                           CRITICALITY ignore TYPE MeasurementID
                                                                                                  PRESENCE mandatory }
    PRESENCE optional } |
    ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                  PRESENCE optional },
DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
         id-MeasurementRecoverySupportIndicator
                                              CRITICALITY ignore
                                                                  EXTENSION
                                                                            MeasurementRecoverySupportIndicator PRESENCE optional
   },
   . . .
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
   rL
                          RL-DM-Rsp.
   rLS
                          RL-Set-DM-Rsp, -- for FDD only
   all-RL
                          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
                                 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-TD
                                 DPCH-ID
                                              OPTIONAL,
                                                        -- for TDD only
   dedicatedMeasurementValue
                                 DedicatedMeasurementValue,
                                              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
   { ID id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp
    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.
    { ID id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-LCR-
TDD-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.
   { ID id-multiple-PUSCH-InfoList-DM-Rsp CRITICALITY ignore EXTENSION Multiple-PUSCH-InfoList-DM-Rsp
                                                                                                                PRESENCE optional }
    -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions.
          id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp
   PRESENCE optional },
   -- TDD only. This list of HS-SICH measurement values is used for the 2nd and beyond measurements of a RL when multiple HS-SICH measurement
values need to be reported.
PUSCH-Info-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID
Multiple-PUSCH-InfoList-DM-Rsp ::= SEOUENCE (SIZE (1.. maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rsp
-- Includes the 2nd through the max number of PUSCH information repetitions.
Multiple-PUSCH-InfoListIE-DM-Rsp ::= SEQUENCE {
   pUSCH-ID
                                          PUSCH-ID
                                                                                                                     OPTIONAL,
    dedicatedMeasurementValue
                                          DedicatedMeasurementValue
                                                                                                                     OPTIONAL,
                                          ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs} } 
   iE-Extensions
                                                                                                                     OPTIONAL,
Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rsp ::= SEQUENCE {
   rL-Set-InformationList-DM-Rsp
                                      RL-Set-InformationList-DM-Rsp,
                                      iE-Extensions
                                                                                                                  OPTIONAL,
    . . .
RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-DM-Rsp }}
RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-RL-Set-InformationItem-DM-Rsp
                                              CRITICALITY ignore
                                                                     TYPE
                                                                            RL-Set-InformationItem-DM-Rsp
                                                                                                               PRESENCE mandatory }
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
                                  RL-Set-ID.
   dedicatedMeasurementValue
                                  DedicatedMeasurementValue,
   CFN
                                  CFN
                                                     OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-
Rsp
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE
   dPCH-ID
                                      DPCH-ID,
    dedicatedMeasurementValue
                                      DedicatedMeasurementValue,
                                      iE-Extensions
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,
   iE-Extensions
                                      ProtocolExtensionContainer { { Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs} }
    . . .
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DEDICATED MEASUREMENT INITIATION FAILURE
  **********************
DedicatedMeasurementInitiationFailure ::= SEQUENCE {
                       ProtocolIE-Container
                                            {{DedicatedMeasurementInitiationFailure-IEs}},
   protocolIEs
   protocolExtensions
                       ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}}
                                                                                                    OPTIONAL,
   . . .
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                            CRITICALITY
                                                          ignore
                                                                       TYPE
                                                                              CRNC-CommunicationContextID
                                                                                                          PRESENCE mandatory
          id-MeasurementID
                                                                       TYPE
                                                                              Measurement.ID
   { ID
                                            CRITICALITY
                                                          ignore
                                                                                                          PRESENCE mandatory
          id-Cause
    ID
                                            CRITICALITY
                                                          ignore
                                                                       TYPE
                                                                              Cause
                                                                                                          PRESENCE mandatory
          id-CriticalityDiagnostics
   { ID
                                                                       TYPE
                                                                              CriticalityDiagnostics
                                                                                                          PRESENCE optional },
                                            CRITICALITY
                                                          ignore
DedicatedMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
      ******************
-- DEDICATED MEASUREMENT REPORT
__ *******************************
DedicatedMeasurementReport ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                           {{DedicatedMeasurementReport-IEs}},
                       ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}
   protocolExtensions
                                                                                                    OPTIONAL,
DedicatedMeasurementReport-IES NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                            CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                     PRESENCE mandatory
     ID id-MeasurementID
                                            CRITICALITY ignore TYPE MeasurementID
                                                                                                     PRESENCE mandatory
    PRESENCE mandatory
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoveryReportingIndicator
   { ID
                                                  CRITICALITY ignore
                                                                                 MeasurementRecoveryReportingIndicator
optional
   },
   . . .
```

```
DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
                                    RL-DM-Rort.
   rLS
                                    RL-Set-DM-Rprt,
                                                         -- for FDD only
   all-RL
                                    RL-DM-Rprt,
   all-RLS
                                    RL-Set-DM-Rprt,
                                                         -- for FDD only
RL-DM-Rprt ::= SEQUENCE {
   rL-InformationList-DM-Rprt
                                    RL-InformationList-DM-Rprt,
                                    iE-Extensions
                                                                                                           OPTIONAL,
RLItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rprt }}
RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
RL-InformationItem-DM-Rprt ::= SEQUENCE {
   rL-ID
                                RL-ID,
   dPCH-ID
                                DPCH-ID
                                           OPTIONAL,
                                                         -- for TDD only
   dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation,
                                iE-Extensions
                                                                                                           OPTIONAL,
   . . .
RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-PUSCH-Info-DM-Rort
                                CRITICALITY reject
                                                             EXTENSION PUSCH-Info-DM-Rort
                                                                                                           PRESENCE optional | |
   -- TDD only
   -- This PUSCH Information is the for the first PUSCH repetition, PUSCH information for PUSCH repetitions 2 and on, should be defined in
Multiple-PUSCH-InfoList-DM-Rprt.
   {ID id-HSSICH-Info-DM-Rprt
                                                                                                           PRESENCE optional }
                                CRITICALITY reject
                                                             EXTENSION HS-SICH-ID
   -- TDD only
   { ID id-multiple-PUSCH-InfoList-DM-Rprt CRITICALITY ignore EXTENSION Multiple-PUSCH-InfoList-DM-Rprt
                                                                                                           PRESENCE optional },
   -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions.
   . . .
PUSCH-Info-DM-Rprt ::= SEQUENCE (SIZE (0..maxNrOfPUSCHs)) OF PUSCH-ID
Multiple-PUSCH-InfoList-DM-Rprt ::= SEQUENCE (SIZE (1.. maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rprt
-- Includes the 2nd through the max number of PUSCH information repetitions.
Multiple-PUSCH-InfoListIE-DM-Rprt ::= SEQUENCE {
   pUSCH-ID
                                       PUSCH-ID
                                                                                                             OPTIONAL,
   dedicatedMeasurementValue
                                       DedicatedMeasurementValue
                                                                                                             OPTIONAL,
   iE-Extensions
                                       ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs} }
                                                                                                             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,
                                   ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }
   iE-Extensions
                                                                                                        OPTIONAL,
RL-SetItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-DM-Rprt }}
RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
   rL-Set-ID
                               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
   protocolIEs
                        ProtocolIE-Container
                                              {{DedicatedMeasurementTerminationRequest-IEs}},
                        ProtocolExtensionContainer {{DedicatedMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                        OPTIONAL,
DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                             CRITICALITY
                                                                          TYPE
                                                                                 NodeB-CommunicationContextID
                                                                                                              PRESENCE mandatory
                                                            ignore
   { ID
          id-MeasurementID
                                              CRITICALITY
                                                            ignore
                                                                          TYPE
                                                                                 MeasurementID
                                                                                                              PRESENCE mandatory \},
DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
*****************
-- DEDICATED MEASUREMENT FAILURE INDICATION
__ ******************
DedicatedMeasurementFailureIndication ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{DedicatedMeasurementFailureIndication-IEs}},
                         ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                      TYPE
                                                                             CRNC-CommunicationContextID
                                            CRITICALITY
                                                           ignore
                                                                                                             PRESENCE mandatory
     TD
          id-MeasurementID
                                            CRITICALITY
                                                           ignore
                                                                      TYPE
                                                                             MeasurementID
                                                                                                             PRESENCE mandatory
                                                                                                             PRESENCE mandatory
    { ID
          id-Cause
                                            CRITICALITY
                                                           ignore
                                                                      TYPE
                                                                             Cause
DedicatedMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK FAILURE INDICATION
__ **********************
RadioLinkFailureIndication ::= SEQUENCE {
                                               {{RadioLinkFailureIndication-IEs}},
   protocolIEs
                  ProtocolIE-Container
                       ProtocolExtensionContainer {{RadioLinkFailureIndication-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                   CRITICALITY ignore
                                                                             TYPE CRNC-CommunicationContextID
                                                                                                                   PRESENCE mandatory
   { ID
          id-Reporting-Object-RL-FailureInd
                                                   CRITICALITY ignore
                                                                             TYPE Reporting-Object-RL-FailureInd
                                                                                                                   PRESENCE mandatory
RadioLinkFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Reporting-Object-RL-FailureInd ::= CHOICE {
   rL
                         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 ::= SEOUENCE (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
                                                                                    RL-InformationItem-RL-FailureInd
                                                                                                                        PRESENCE
   mandatory}
RL-InformationItem-RL-FailureInd ::= SEOUENCE {
   rL-ID
                                          RL-ID,
   cause
                                          Cause,
                                          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.
                                      ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
                                                                                                        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,
   iE-Extensions
                        ProtocolExtensionContainer { RL-Set-InformationItem-RL-FailureInd-ExtIEs} } OPTIONAL,
```

```
RL-Set-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCTrCH-RL-FailureInd ::= SEQUENCE {
                                      RL-ID,
   cCTrCH-InformationList-RL-FailureInd
                                      CCTrCH-InformationList-RL-FailureInd,
   iE-Extensions
                                   ProtocolExtensionContainer { { CCTrCHItem-RL-FailureInd-ExtIEs } }
                                                                                                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-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
                                       OPTIONAL,
CCTrCH-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK PREEMPTION REQUIRED INDICATION
  RadioLinkPreemptionRequiredIndication ::= SEQUENCE {
   protocolIEs
                                                   {{RadioLinkPreemptionRequiredIndication-IEs}},
                             ProtocolIE-Container
                             ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
   . . .
RadioLinkPreemptionRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CRNC-CommunicationContextID
                                                CRITICALITY
                                                                          TYPE
                                                                                              CRNC-CommunicationContextID
                                                             ignore
         PRESENCE
                   mandatory
   . . .
```

```
RadioLinkPreemptionRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-PreemptRequiredInd
                                             ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationItemIE-RL-
PreemptRequiredInd}}
RL-InformationItemIE-RL-PreemptRequiredInd NBAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationItem-RL-PreemptRequiredInd
                                                 CRITICALITY ignore TYPE RL-InformationItem-RL-PreemptRequiredInd
                                                                                                                      PRESENCE
mandatory },
RL-InformationItem-RL-PreemptRequiredInd::= SEQUENCE {
   iE-Extensions
                             ProtocolExtensionContainer { {RL-InformationItem-RL-PreemptRequiredInd-ExtIEs} } OPTIONAL,
RL-InformationItem-RL-PreemptRequiredInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK RESTORE INDICATION
  RadioLinkRestoreIndication ::= SEQUENCE {
                                               {{RadioLinkRestoreIndication-IEs}},
   protocolIEs
                ProtocolIE-Container
   protocolExtensions ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
                                                                                                           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-Set
                        RL-Set-RL-RestoreInd, --FDD only
   . . . ,
   cCTrCH
                        CCTrCH-RL-RestoreInd --TDD only
RL-RL-RestoreInd ::= SEQUENCE {
   rL-InformationList-RL-RestoreInd
                                       RL-InformationList-RL-RestoreInd,
```

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```
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-RL-InformationItem-RL-RestoreInd
                                             CRITICALITY ignore
                                                                  TYPE RL-InformationItem-RL-RestoreInd
                                                                                                            PRESENCE mandatory }
RL-InformationItem-RL-RestoreInd ::= SEQUENCE {
                                      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 ::= SEQUENCE {
   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
                                         RL-ID,
                                         CCTrCH-InformationList-RL-RestoreInd,
   cCTrCH-InformationList-RL-RestoreInd
```

```
ProtocolExtensionContainer { { CCTrCHItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                      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 ::= SEQUENCE {
   cCTrCH-ID
                                             CCTrCH-ID,
                                         ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                                OPTIONAL,
CCTrCH-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     -- COMPRESSED MODE COMMAND FDD
  *****************
CompressedModeCommand ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                            {{CompressedModeCommand-IEs}},
                        ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
   protocolExtensions
                                                                                               OPTIONAL,
CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
   { ID
         id-NodeB-CommunicationContextID
                                            CRITICALITY
                                                              ignore
                                                                        TYPE
                                                                               NodeB-CommunicationContextID
                                                                                                                PRESENCE
   mandatory } |
         id-Active-Pattern-Sequence-Information CRITICALITY
                                                                               Active-Pattern-Sequence-Information
                                                              ignore
                                                                        TYPE
                                                                                                                PRESENCE
   mandatory },
   . . .
CompressedModeCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
-- ERROR INDICATION
__ ******************
ErrorIndication ::= SEOUENCE {
   protocolIEs
                        ProtocolIE-Container
                                             {{ErrorIndication-IEs}},
                        ProtocolExtensionContainer {{ErrorIndication-Extensions}}
   protocolExtensions
                                                                                 OPTIONAL,
ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
                                                                             CRNC-CommunicationContextID
          id-CRNC-CommunicationContextID
                                          CRITICALITY
                                                        ignore
                                                                      TYPE
                                                                                                           PRESENCE optional
          id-NodeB-CommunicationContextID
                                                        ignore
                                                                      TYPE
                                                                             NodeB-CommunicationContextID
                                                                                                           PRESENCE optional
                                          CRITICALITY
                                                                                                           PRESENCE optional
          id-Cause
                                          CRITICALITY
                                                        ignore
                                                                      TYPE
          id-CriticalityDiagnostics
                                                        ignore
                                                                             CriticalityDiagnostics
                                                                                                          PRESENCE optional },
    ID
                                          CRITICALITY
                                                                      TYPE
ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- PRIVATE MESSAGE
__ *******************************
PrivateMessage ::= SEQUENCE {
   privateIEs
                 PrivateIE-Container {{PrivateMessage-IEs}},
   . . .
PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
    ******************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REOUEST FDD
    PhysicalSharedChannelReconfigurationRequestFDD ::= SEQUENCE {
                     ProtocolIE-Container {{PhysicalSharedChannelReconfigurationRequestFDD-IEs}},
                      ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                        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
                                                                                                                    TYPE MaximumTransmissionPower
     ID id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRgst
                                                                                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 }
    ID id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst
                                                            CRITICALITY reject TYPE HS-SCCH-FDD-Code-Information
                                                                                                                                PRESENCE optional },
    . . .
PhysicalSharedChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code
                                                                CRITICALITY reject EXTENSION DL-ScramblingCode
    PRESENCE optional } |
    { ID id-E-AGCH-FDD-Code-Information
                                                                CRITICALITY reject EXTENSION E-AGCH-FDD-Code-Information
    PRESENCE optional } |
    { ID id-E-RGCH-E-HICH-FDD-Code-Information
                                                                CRITICALITY reject EXTENSION E-RGCH-E-HICH-FDD-Code-Information
    PRESENCE optional } |
    {ID id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRgst
                                                                    CRITICALITY reject EXTENSION HSDPA-And-EDCH-CellPortion-InformationList-PSCH-
                PRESENCE optional } |
ReconfRast
    {ID id-Maximum-Target-ReceivedTotalWideBandPower
                                                                    CRITICALITY reject EXTENSION Maximum-Target-ReceivedTotalWideBandPower
PRESENCE optional } |
    {ID id-Reference-ReceivedTotalWideBandPower
                                                            CRITICALITY ignore EXTENSION Reference-ReceivedTotalWideBandPower PRESENCE optional }
                                                                CRITICALITY reject EXTENSION Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio
    {ID id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio
    PRESENCE optional },
HSDPA-And-EDCH-CellPortion-InformationList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HSDPA-And-EDCH-CellPortion-
InformationItem-PSCH-ReconfRgst
HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst::= SEQUENCE {
    cellPortionID
                                                                        CellPortionID,
    hS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRgst
                                                                        DL-ScramblingCode
                                                                                                                       OPTIONAL,
    hS-PDSCH-FDD-Code-Information-PSCH-ReconfRgst
                                                                        HS-PDSCH-FDD-Code-Information
                                                                                                                       OPTIONAL,
                                                                        HS-SCCH-FDD-Code-Information
    hS-SCCH-FDD-Code-Information-PSCH-ReconfRgst
                                                                                                                       OPTIONAL,
    hs-pdsch-Hs-scch-E-Agch-E-Rgch-E-Hich-MaxPower-Psch-ReconfRgst
                                                                        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-ReconfRast-ExtIEs} }
                           OPTIONAL,
HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
__ ********************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
     ***********
PhysicalSharedChannelReconfigurationRequestTDD ::= SEQUENCE {
                       ProtocolIE-Container {{PhysicalSharedChannelReconfigurationRequestTDD-IEs}},
   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
                                                  CRITICALITY reject TYPE PDSCHSets-AddList-PSCH-ReconfRqst
                                                                                                                   PRESENCE optional
     ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst
                                                  CRITICALITY reject TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst
                                                                                                                   PRESENCE optional
     ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst
                                                  CRITICALITY reject TYPE PDSCHSets-DeleteList-PSCH-ReconfRqst
                                                                                                                   PRESENCE optional
     ID id-PUSCHSets-AddList-PSCH-ReconfRgst
                                                  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-ReconfRgst
                                                              CRITICALITY reject EXTENSION Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRgst
    PRESENCE optional }
    { ID id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
                                                              CRITICALITY reject EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional }
    { ID id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
                                                             CRITICALITY reject EXTENSION Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional } |
    { ID id-ConfigurationGenerationID
                                                          CRITICALITY reject EXTENSION ConfigurationGenerationID
                                                                                                                        PRESENCE optional },
    . . .
PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst
PDSCHSets-AddItem-PSCH-ReconfRqst
                                  ::= SEQUENCE {
   pDSCHSet-ID
                                              PDSCHSet-ID,
   pDSCH-InformationList
                                              PDSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
                                                                                                                -- Mandatory for 3.84Mcps TDD.
Not Applicable to 1.28Mcps TDD
                                              ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst
                                                    CRITICALITY reject
                                                                             EXTENSION PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
               optional \, -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD
    PRESENCE
PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
```

```
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
PDSCH-Information-AddListIEs-PSCH-ReconfRqst
                                                NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst 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-ReconfRqst
                                                                DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions
                                            ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRgst-ExtIEs} }
                                                                                                                                   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,
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst
DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
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,
```

```
ProtocolExtensionContainer { {PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   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,
   tFCI-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-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRgst
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   pDSCH-ID
                                          PDSCH-ID,
   tdd-ChannelisationCodeLCR
                                          TDD-ChannelisationCodeLCR,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                   OPTIONAL,
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRgst-LCR
                                                   CRITICALITY reject
                                                                             EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
                                                                                                                        PRESENCE optional },
PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst
PDSCHSets-ModifyItem-PSCH-ReconfRqst
                                       ::= SEQUENCE {
   pDSCHSet-ID
                                              PDSCHSet-ID,
   pDSCH-InformationList
                                              PDSCH-Information-ModifyList-PSCH-ReconfRqst,
                                              iE-Extensions
PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}
PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
   PRESENCE
   optional } |
   {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRgst
                                                      CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRgst
   PRESENCE optional }
PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE
   repetitionPeriod
                                                   RepetitionPeriod
                                                                                                            OPTIONAL,
   repetitionLength
                                                   RepetitionLength
                                                                                                            OPTIONAL,
   tdd-PhysicalChannelOffset
                                                  TDD-PhysicalChannelOffset
                                                                                                            OPTIONAL,
   dL-Timeslot-InformationModifyList-PSCH-ReconfRgst DL-Timeslot-InformationModifyList-PSCH-ReconfRgst
                                                                                                            OPTIONAL,
   iE-Extensions
                                           ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                            OPTIONAL,
   . . .
PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst
DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE
   timeSlot
                                        TimeSlot,
                                       MidambleShiftAndBurstType
   midambleShiftAndBurstType
                                                                OPTIONAL,
                                        TFCI-Presence
   tFCI-Presence
                                                      OPTIONAL,
   dL-Code-InformationModifyList-PSCH-ReconfRqst
                                                          DL-Code-InformationModifyList-PSCH-ReconfRqst
                                                                                                            OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
   . . .
DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRgst
DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   pDSCH-ID
                                        PDSCH-ID,
   tdd-ChannelisationCode
                                        TDD-ChannelisationCode,
                                        iE-Extensions
DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   repetitionPeriod
                                                          RepetitionPeriod
                                                                                                              OPTIONAL.
```

```
repetitionLength
                                                                RepetitionLength
                                                                                                                          OPTIONAL,
    tdd-PhysicalChannelOffset
                                                                TDD-PhysicalChannelOffset
                                                                                                                          OPTIONAL.
    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
                                                            TFCI-Presence OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRgst
                                                            DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR
   iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs} }
   OPTIONAL,
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR
                                                      CRITICALITY reject
                                                                                 EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
                                                                                                                              PRESENCE optional },
    . . .
PDSCHSets-DeleteList-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRgst
PDSCHSets-DeleteItem-PSCH-ReconfRast
                                         ::= SEOUENCE {
    pDSCHSet-ID
   iE-Extensions
                                                ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                OPTIONAL,
    . . .
PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
PUSCHSets-AddList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRgst
PUSCHSets-AddItem-PSCH-ReconfRqst
                                  ::= SEOUENCE {
   pUSCHSet-ID
                                              PUSCHSet-ID,
   pUSCH-InformationList
                                              PUSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps 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
    PRESENCE
PUSCH-Information-AddList-PSCH-ReconfRgst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRgst }}
PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject
                                                                             TYPE
                                                                                     PUSCH-Information-AddItem-PSCH-ReconfRqst
                                                                                                                                    PRESENCE
   mandatory }
PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
    tdd-PhysicalChannelOffset
                                          TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst
                                                             UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
                                              iE-Extensions
                                                                                                                                 OPTIONAL,
PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
   tFCI-Presence
                                          TFCI-Presence,
   uL-Code-InformationAddList-PSCH-ReconfRgst
                                                          UL-Code-InformationAddList-PSCH-ReconfRgst,
                                          ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
   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-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRgst
                                                                    UL-Timeslot-InformationAddList-LCR-PSCH-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-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRgst
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    tFCI-Presence
                                            TFCI-Presence,
    uL-Code-InformationAddList-LCR-PSCH-ReconfRqst
                                                                UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst
UL-Code-InformationAddItem-LCR-PSCH-ReconfRgst ::= SEOUENCE {
    pUSCH-ID
                                            PUSCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
                                            ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                          OPTIONAL,
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR
                                                       CRITICALITY reject
                                                                                 EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR
                                                                                                                              PRESENCE optional },
    . . .
```

```
PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst
PUSCHSets-ModifyItem-PSCH-ReconfRqst
                                      ::= SEQUENCE {
   pUSCHSet-ID
                                             PUSCHSet-ID,
   pUSCH-InformationList
                                             PUSCH-Information-ModifyList-PSCH-ReconfRqst,
   iE-Extensions
                                             PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
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-ReconfRgst
                                                               UL-Timeslot-InformationModifyList-PSCH-ReconfRqst
                                             ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
       . . .
PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRgst
UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE
   timeSlot
                                         TimeSlot,
   midambleShiftAndBurstType
                                         MidambleShiftAndBurstType
                                                                  OPTIONAL,
                                         TFCI-Presence OPTIONAL,
   tFCI-Presence
   uL-Code-InformationModifyList-PSCH-ReconfRqst
                                                            UL-Code-InformationModifyList-PSCH-ReconfRqst
                                                                                                               OPTIONAL,
                                         ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL,
   . . .
UL-Timeslot-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst
```

```
UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID
                                          PUSCH-ID.
   tdd-ChannelisationCode
                                          TDD-ChannelisationCode,
   iE-Extensions
                                          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-ReconfRgst
                                                                     UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRgst
                                              ProtocolExtensionContainer { {PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   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-ReconfRqst
                                                                  UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
    . . .
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   pUSCH-ID
                                          PUSCH-ID.
   tdd-ChannelisationCodeLCR
                                              TDD-ChannelisationCodeLCR,
   iE-Extensions
                                          ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
   OPTIONAL,
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
{ID id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR
                                                         CRITICALITY reject
                                                                                 EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE optional },
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst
PUSCHSets-DeleteItem-PSCH-ReconfRqst
                                       ::= SEOUENCE {
   pUSCHSet-ID
   iE-Extensions
                                              OPTIONAL,
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-PDSCH-TDD-Information-PSCH-ReconfRgst ::= SEQUENCE {
   dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst
                                                                     DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst
                                                                                                                        OPTIONAL,
   dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst
                                                                     DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                OPTIONAL.
       . . .
HS-PDSCH-TDD-Information-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRgst
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRgst::= SEQUENCE
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
   dl-HS-PDSCH-Codelist-PSCH-ReconfRqst
                                          DL-HS-PDSCH-Codelist-PSCH-ReconfRqst,
   maxHSDSCH-HSSCCH-Power
                                          MaximumTransmissionPower
                                                                     OPTIONAL,
                                          ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRgst-ExtIEs} }
   iE-Extensions
   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-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-
ReconfRast
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst::= SEQUENCE {
    timeSlot
                                          TimeSlotLCR,
   midambleShiftAndBurstType
                                          MidambleShiftLCR,
   dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRgst DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRgst,
   maxHSDSCH-HSSCCH-Power
                                              MaximumTransmissionPower
                                                                        OPTIONAL.
```

```
ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
   OPTIONAL.
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode
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,
                                          iE-Extensions
                                                                                                                                OPTIONAL,
Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRgst-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-Information-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRqst
HS-SCCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE
   hs-sccH-ID
                                          HS-SCCH-ID,
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
                                          TDD-ChannelisationCode,
   tdd-ChannelisationCode
   hS-SCCH-MaxPower
                                          DL-Power,
   hS-SICH-Information
                                          HS-SICH-Information-PSCH-ReconfRgst,
                                          ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} } 
   iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-Information-PSCH-ReconfRgst ::= SEQUENCE
   hsSICH-ID
                                          HS-SICH-ID,
   timeSlot
                                          TimeSlot,
   midambleShiftAndBurstType
                                          MidambleShiftAndBurstType,
   tdd-ChannelisationCode
                                          TDD-ChannelisationCode,
                                          ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRgst-ExtIEs} }
   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-ReconfRgst,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                      OPTIONAL,
HS-SCCH-InformationItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE
                                            HS-SICH-ID,
    hsSICH-ID
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    tdd-ChannelisationCode
                                        TDD-ChannelisationCode,
                                            ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
                                                    HS-SCCH-InformationModify-PSCH-ReconfRgst OPTIONAL,
    hS-SCCH-InformationModify-PSCH-ReconfRgst
   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 ::= {
HS-SCCH-InformationModify-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst
                                                ::= SEQUENCE {
   hs-sccH-ID
                                            HS-SCCH-ID.
    timeSlot
                                            TimeSlot
                                                        OPTIONAL,
                                            MidambleShiftAndBurstType OPTIONAL,
    midambleShiftAndBurstType
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    hS-SCCH-MaxPower
                                            DL-Power
                                                        OPTIONAL,
    hS-SICH-Information
                                            HS-SICH-InformationModify-PSCH-ReconfRqst OPTIONAL,
                                            ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
```

```
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-InformationModify-PSCH-ReconfRgst
                                            ::= SEQUENCE
    hsSICH-ID
                                           HS-SICH-ID,
    timeSlot
                                           TimeSlot
                                                       OPTIONAL,
                                           MidambleShiftAndBurstType OPTIONAL,
   midambleShiftAndBurstType
    tdd-ChannelisationCode
                                           TDD-ChannelisationCode OPTIONAL,
                                           ProtocolExtensionContainer { { HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                                 OPTIONAL,
HS-SICH-InformationModify-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SCCH-InformationModify-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst
HS-SCCH-InformationModifyItem-LCR-PSCH-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-ReconfRqst OPTIONAL,
                                           ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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
                                                                                                                                    OPTIONAL,
HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRgst
Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst
                                                        ::= SEQUENCE
    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-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
                                       CRITICALITY
                                                                 TYPE
                                                                            CriticalityDiagnostics
                                                                                                          PRESENCE optional },
   . . .
PhysicalSharedChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE
  *****************
PhysicalSharedChannelReconfigurationFailure ::= SEQUENCE {
                     ProtocolIE-Container {{PhysicalSharedChannelReconfigurationFailure-IEs}},
   protocolIEs
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationFailure-Extensions}}
                                                                                                                   OPTIONAL,
PhysicalSharedChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
          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 {
```

```
generalCause
                          GeneralCauseList-PSCH-ReconfFailure,
   setSpecificCause
                           SetSpecificCauseList-PSCH-ReconfFailureTDD,
GeneralCauseList-PSCH-ReconfFailure ::= SEQUENCE {
   cause
                              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 ::= SEOUENCE {
   pDSCHSet-ID
                          PDSCHSet-ID.
   cause
                           Cause,
                          ProtocolExtensionContainer { {Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} }
   iE-Extensions
Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD ::= SEOUENCE (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.
                            ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RESET REQUEST
ResetRequest ::= SEQUENCE {
                                                     {{ResetRequest-IEs}},
    protocolIEs
                            ProtocolIE-Container
                            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,
    iE-Extensions
                                             ProtocolExtensionContainer { {CommunicationContextItem-Reset-ExtIEs} }
```

```
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 ::= SEOUENCE {
    communicationContextType-Reset
                                            CommunicationContextType-Reset,
    iE-Extensions
                                            ProtocolExtensionContainer { { CommunicationContextInfoItem-Reset-ExtIEs} }
                                                                                                                             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,
                                                ProtocolExtensionContainer { (CommunicationControlPortItem-Reset-ExtIEs) }
    iE-Extensions
                                                                                                                                OPTIONAL,
CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-Single-Container
{{CommunicationControlPortInfoItemIE-Reset }}
```

```
CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
   {ID id-CommunicationControlPortInfoItem-Reset
                                                 CRITICALITY reject
                                                                      TYPE CommunicationControlPortInfoItem-Reset
                                                                                                                 PRESENCE mandatory }
CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
   communicationControlPortID
                                   CommunicationControlPortID,
                                   ProtocolExtensionContainer { {CommunicationControlPortInfoItem-Reset-ExtIEs} } OPTIONAL,
   iE-Extensions
CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ******************
-- RESET RESPONSE
     *****************
ResetResponse ::= SEQUENCE {
                                              {{ResetResponse-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{ResetResponse-Extensions}}
   protocolExtensions
                                                                                     OPTIONAL,
ResetResponse-IEs NBAP-PROTOCOL-IES ::= {
   {ID id-CriticalityDiagnostics
                                                            TYPE
                                                                   CriticalityDiagnostics
                                                                                                         PRESENCE optional },
                                   CRITICALITY
                                                 ignore
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-InformationExchangeID
                                                                CRITICALITY reject
                                                                                          TYPE
                                                                                                             InformationExchangeID
               PRESENCE mandatory }
   { ID
          id-InformationExchangeObjectType-InfEx-Rgst
                                                            CRITICALITY reject
                                                                                      TYPE
                                                                                                             InformationExchangeObjectType-
InfEx-Rgst
              PRESENCE mandatory }
   { ID
           id-InformationType
                                                 CRITICALITY reject
                                                                                  TYPE
                                                                                          InformationType
                                                                                                                        PRESENCE mandatory
   { ID
           id-InformationReportCharacteristics
                                                                                                             InformationReportCharacteristics
                                                                CRITICALITY reject
                                                                                          TYPE
                  PRESENCE mandatory },
InformationExchangeInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
InformationExchangeObjectType-InfEx-Rgst ::= CHOICE {
                                 Cell-InfEx-Rast,
   cell
Cell-InfEx-Rqst ::= SEQUENCE {
   c-ID
                                  C-ID,
                                 ProtocolExtensionContainer { { CellItem-InfEx-Rqst-ExtIEs} }
   iE-Extensions
                                                                                                               OPTIONAL,
   . . .
CellItem-InfEx-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- INFORMATION EXCHANGE INITIATION RESPONSE
  *******************
InformationExchangeInitiationResponse ::= SEQUENCE {
                          ProtocolIE-Container
                                                {{InformationExchangeInitiationResponse-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer {{InformationExchangeInitiationResponse-Extensions}}
                                                                                                               OPTIONAL,
   . . .
InformationExchangeInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-InformationExchangeID
    { ID
                                                            CRITICALITY ignore
                                                                                      TYPE
                                                                                                            InformationExchangeID
               PRESENCE mandatory } |
          id-InformationExchangeObjectType-InfEx-Rsp
                                                        CRITICALITY ignore
   { ID
                                                                                  TYPE
                                                                                        InformationExchangeObjectType-InfEx-Rsp
                                                                                                                                  PRESENCE
   optional
          id-CriticalityDiagnostics
   { ID
                                                    CRITICALITY ignore
                                                                              TYPE
                                                                                      CriticalityDiagnostics
                                                                                                                       PRESENCE optional },
   . . .
InformationExchangeInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
   cell
                            Cell-InfEx-Rsp,
   . . .
Cell-InfEx-Rsp ::= SEQUENCE {
   requestedDataValue
                                RequestedDataValue,
   iE-Extensions
                                ProtocolExtensionContainer { { CellItem-InfEx-Rsp-ExtIEs} }
                                                                                                          OPTIONAL,
CellItem-InfEx-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    INFORMATION EXCHANGE INITIATION FAILURE
     InformationExchangeInitiationFailure ::= SEQUENCE {
                                              {{InformationExchangeInitiationFailure-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{InformationExchangeInitiationFailure-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
InformationExchangeInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-InformationExchangeID
                                                                                  InformationExchangeID
                                              CRITICALITY
                                                             ignore
                                                                           TYPE
                                                                                                               PRESENCE mandatory
                                                                                                               PRESENCE mandatory
     ID
          id-Cause
                                       CRITICALITY
                                                      ignore
                                                                    TYPE
                                                                           Cause
    ID
          id-CriticalityDiagnostics
                                       CRITICALITY
                                                                    TYPE
                                                                           CriticalityDiagnostics
                                                                                                          PRESENCE optional },
                                                     ignore
   . . .
InformationExchangeInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- INFORMATION REPORT
InformationReport ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                              {{InformationReport-IEs}},
                        ProtocolExtensionContainer {{InformationReport-Extensions}}
   protocolExtensions
                                                                                      OPTIONAL,
InformationReport-IES NBAP-PROTOCOL-IES ::= {
   { ID
         id-InformationExchangeID
                                                         CRITICALITY ignore
                                                                                  TYPE
                                                                                                        InformationExchangeID
              PRESENCE
                       mandatory }|
```

```
id-InformationExchangeObjectType-InfEx-Rprt
                                                   CRITICALITY ignore
                                                                           TYPE
                                                                                  InformationExchangeObjectType-InfEx-Rprt
   mandatory },
   . . .
InformationReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
InformationExchangeObjectType-InfEx-Rprt ::= CHOICE {
                              Cell-Inf-Rprt,
   . . .
Cell-Inf-Rprt ::= SEQUENCE {
   requestedDataValueInformation RequestedDataValueInformation,
   iE-Extensions
                              ProtocolExtensionContainer {{ CellItem-Inf-Rprt-ExtIEs }}
                                                                                                   OPTIONAL,
CellItem-Inf-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- INFORMATION EXCHANGE TERMINATION REQUEST
      InformationExchangeTerminationRequest ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{InformationExchangeTerminationRequest-IEs}},
                     ProtocolExtensionContainer {{InformationExchangeTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
InformationExchangeTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID
         id-InformationExchangeID
                                         CRITICALITY
                                                       ignore
                                                                        TYPE
                                                                               InformationExchangeID
                                                                                                        PRESENCE mandatory },
   . . .
InformationExchangeTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    -- INFORMATION EXCHANGE FAILURE INDICATION
  ******************
InformationExchangeFailureIndication ::= SEQUENCE {
                                            {{InformationExchangeFailureIndication-IEs}},
   protocolIEs
                        ProtocolIE-Container
```

```
ProtocolExtensionContainer {{InformationExchangeFailureIndication-Extensions}}
                                                                                                                        OPTIONAL,
   protocolExtensions
InformationExchangeFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
           id-InformationExchangeID
                                                                                 InformationExchangeID
                                              CRITICALITY ignore
                                                                         TYPE
                                                                                                                     PRESENCE mandatory
    ID
           id-Cause
                                      CRITICALITY ignore
                                                                 TYPE
                                                                         Cause
                                                                                                                PRESENCE mandatory \ \ \.
    . . .
InformationExchangeFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    CELL SYNCHRONISATION INITIATION REQUEST TDD
   *****************
CellSynchronisationInitiationRequestTDD ::= SEQUENCE
                                                  {{CellSynchronisationInitiationRequestTDD-IEs}},
   protocolIEs
                           ProtocolIE-Container
                           ProtocolExtensionContainer {{CellSynchronisationInitiationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL,
    . . .
CellSynchronisationInitiationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
           id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD
                                                                     CRITICALITY
                                                                                    reject
                                                                                                                EXTENSION
                                                                                                                          SYNCDlCodeId-
TransInitLCR-CellSyncInitiationRgstTDD
                                          PRESENCE
                                                      optional
                                                                     -- Applicable to 1.28Mcps TDD only
          id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD
                                                                         CRITICALITY
                                                                                        reject
                                                                                                                  EXTENSION
                                                                                                                             SYNCDlCodeId-
MeasureInitLCR-CellSyncInitiationRqstTDD
                                              PRESENCE
                                                         optional
                                                                     }, -- Applicable to 1.28Mcps TDD only
CellSynchronisationInitiationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
           id-C-ID
                                          CRITICALITY
                                                         reject
                                                                     TYPE
                                                                             C-ID
                                                                                                                        PRESENCE mandatory
     ID
           id-cellSyncBurstRepetitionPeriod
                                                      CRITICALITY
                                                                     reiect
                                                                                 TYPE
                                                                                        CellSyncBurstRepetitionPeriod PRESENCE mandatory
           id-timeslotInfo-CellSyncInitiationRqstTDD CRITICALITY
                                                                                        TimeslotInfo-CellSyncInitiationRgstTDD
                                                                     reject
                                                                                 TYPE
    optional } | -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
           id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD
                                                                 CRITICALITY
                                                                                 reject
                                                                                            TYPE
                                                                                                               CellSyncBurstTransInit-
CellSyncInitiationRgstTDD
                                                      } -- Applicable to 3.84Mcps TDD only
                              PRESENCE
                                          optional
           id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD
                                                                     CRITICALITY
                                                                                                               TYPE CellSyncBurstMeasureInit-
CellSyncInitiationRqstTDD
                              PRESENCE
                                          optional
                                                     }, -- Applicable to 3.84Mcps TDD only
CellSyncBurstTransInit-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBTransmissionID
                                          CSBTransmissionID,
    sfn
                                          SFN.
    cellSyncBurstCode
                                          CellSyncBurstCode,
    cellSyncBurstCodeShift
                                          CellSyncBurstCodeShift,
   initialDLTransPower
                                          DL-Power,
    iE-Extensions
                                          ProtocolExtensionContainer { { CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
```

```
CellSyncBurstTransInit-CellSyncInitiationRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeslotInfo-CellSyncInitiationRqstTDD::= SEQUENCE (SIZE (1..15)) OF TimeSlot
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBMeasurementID
                                          CSBMeasurementID,
    cellSyncBurstCode
                                          CellSyncBurstCode,
    cellSyncBurstCodeShift
                                          CellSyncBurstCodeShift,
                                          SynchronisationReportType,
    synchronisationReportType
    sfn
                                          SFN
                                                                     OPTIONAL.
    synchronisationReportCharacteristics
                                          SynchronisationReportCharacteristics,
   iE-Extensions
                                          ProtocolExtensionContainer { { CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD-ExtIEs} }
   OPTIONAL,
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBTransmissionID
                                          CSBTransmissionID,
   sfn
                                          SFN,
   uARFCN
                                          UARFCN,
                                          SYNCDlCodeId,
    sYNCDlCodeId
   dwPCH-Power
                                          DwPCH-Power,
                                          iE-Extensions
   OPTIONAL,
    . . .
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBMeasurementID
                                          CSBMeasurementID,
   sfn
                                          SFN
                                                         OPTIONAL,
   uARFCN
                                          UARFCN,
    sYNCDlCodeId
                                          SYNCDlCodeId,
    synchronisationReportType
                                          SynchronisationReportType,
    synchronisationReportCharacteristics
                                          SynchronisationReportCharacteristics,
   iE-Extensions
                                          ProtocolExtensionContainer { { SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD-ExtIEs } }
   OPTIONAL,
    . . .
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
CELL SYNCHRONISATION INITIATION RESPONSE TDD
__ *********************
CellSynchronisationInitiationResponseTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                              {{CellSynchronisationInitiationResponseTDD-IEs}},
                         ProtocolExtensionContainer {{CellSynchronisationInitiationResponseTDD-Extensions}}
   protocolExtensions
                                                                                                           OPTIONAL,
CellSynchronisationInitiationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationInitiationResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                                                  ignore
                                                                                    CriticalityDiagnostics
                                                                                                                             PRESENCE
   optional },
  CELL SYNCHRONISATION INITIATION FAILURE TDD
CellSynchronisationInitiationFailureTDD ::= SEQUENCE
                         ProtocolIE-Container
   protocolIEs
                                               {{CellSynchronisationInitiationFailureTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{CellSynchronisationInitiationFailureTDD-Extensions}}
                                                                                                          OPTIONAL,
   . . .
CellSynchronisationInitiationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationInitiationFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-Cause
                                            CRITICALITY
                                                           ignore
                                                                      TYPE
                                                                                                                     PRESENCE mandatory
                                                                             Cause
          id-CriticalityDiagnostics
                                                                      TYPE
                                                                             CriticalityDiagnostics
                                                                                                             PRESENCE optional },
    { ID
                                            CRITICALITY
                                                           ignore
    ********************
  CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD
  ******************
CellSynchronisationReconfigurationRequestTDD ::= SEQUENCE {
                                               {{CellSynchronisationReconfigurationRequestTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
```

```
ProtocolExtensionContainer {{CellSynchronisationReconfigurationRequestTDD-Extensions}}
                                                                                                                        OPTIONAL,
    protocolExtensions
CellSynchronisationReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-NSubCyclesPerCyclePeriod-CellSyncReconfRgstTDD
                                                                        CRITICALITY reject EXTENSION
                                                                                                                    NSubCyclesPerCyclePeriod
                                PRESENCE optional }
                                                        -- Applicable to 1.28Mcps TDD only
    { ID id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD
                                                                            CRITICALITY reject EXTENSION
                                                                                                                    SYNCDlCodeIdTransReconfInfoLCR-
CellSyncReconfRqstTDD
                                PRESENCE optional }
                                                      -- Applicable to 1.28Mcps TDD only
     ID id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD
                                                                            CRITICALITY reject EXTENSION
                                                                                                                    SYNCDlCodeIdMeasInfoLCR-
                            PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
CellSyncReconfRqstTDD
CellSynchronisationReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::=
     ID
           id-C-ID
                                            CRITICALITY
                                                            reject
                                                                        TYPE
                                                                                C-ID
                                                                                                                             PRESENCE
                                                                                                                                        mandatory
     ID
           id-TimeSlot
                                            CRITICALITY
                                                                        TYPE
                                                                                TimeSlot
                                                                                                                                      mandatory
                                                            reject
                                                                                                                          PRESENCE
    -- 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-NCyclesPerSFNperiod
                                                                                NCvclesPerSFNperiod
     ID
                                            CRITICALITY
                                                            reject
                                                                        TYPE
                                                                                                                          PRESENCE
                                                                                                                                      mandatory
     TD
           id-NRepetitionsPerCyclePeriod CRITICALITY
                                                            reject
                                                                        TYPE
                                                                                NRepetitionsPerCyclePeriod PRESENCE
                                                                                                                       mandatory
           id-CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD
     ID
                                                                        CRITICALITY
                                                                                        reiect
                                                                                                                    TYPE
    CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD
                                                            PRESENCE
                                                                        optional
                                                                                        -- Applicable to 3.84Mcps TDD only
           id-CellSvncBurstMeasReconfiguration-CellSvncReconfRgstTDD
                                                                            CRITICALITY
                                                                                            reiect
                                                                                                                       TYPE CellSvncBurstMeasInfo-
CellSyncReconfRqstTDD
                                                    }, -- Applicable to 3.84Mcps TDD only
                            PRESENCE
                                       optional
CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD ::= SEOUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-
CellSyncReconfRgstTDD
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-CellSyncReconfRqstTDD
                                                        CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
    synchronisationReportType
                                                        SynchronisationReportTypeIE
                                                                                                OPTIONAL,
    synchronisationReportCharacteristics
                                                        SynchronisationReportCharacteristicsIE OPTIONAL,
    iE-Extensions
                                                        ProtocolExtensionContainer { { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    . . .
```

```
CellSyncBurstMeasInfo-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD }}
CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD CRITICALITY reject
                                                                                    TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD
    PRESENCE mandatory }
SynchronisationReportTypeIE ::= ProtocolIE-Single-Container {{ SynchronisationReportTypeIEs }}
SynchronisationReportTypeIEs NBAP-PROTOCOL-IES ::= {
    { ID id-SynchronisationReportType
                                                        CRITICALITY reject TYPE SynchronisationReportType
                                                                                                                                      PRESENCE
    mandatory }
SynchronisationReportCharacteristicsIE ::= ProtocolIE-Single-Container {{ SynchronisationReportCharacteristicsIEs }}
SynchronisationReportCharacteristicsIEs NBAP-PROTOCOL-IES ::= {
     ID id-SynchronisationReportCharacteristics
                                                       CRITICALITY reject TYPE SynchronisationReportCharacteristics
                                                                                                                             PRESENCE mandatory
CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-
CellSyncReconfRqstTDD
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive
                                            SyncFrameNumber,
    syncBurstInfo
                                            CellSyncBurstInfoList-CellSyncReconfRqstTDD,
                                            ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRqstTDD
CellSyncBurstInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBMeasurementID
                                                CSBMeasurementID,
    cellSyncBurstCode
                                                CellSyncBurstCode,
    cellSyncBurstCodeShift
                                                CellSyncBurstCodeShift,
    iE-Extensions
                                                ProtocolExtensionContainer { { CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs} } 
                                                                                                                                         OPTIONAL,
CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSyncFramesLCR)) OF SYNCDlCodeIdTransReconfItemLCR-
CellSyncReconfRgstTDD
SYNCDlCodeIdTransReconfItemLCR-CellSyncReconfRgstTDD ::= 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-CellSyncReconfRqstTDD,
    synchronisationReportType
                                                SynchronisationReportType
                                                                                                 OPTIONAL,
    synchronisationReportCharacteristics
                                                SynchronisationReportCharacteristics
                                                                                             OPTIONAL,
    iE-Extensions
                        ProtocolExtensionContainer
                                                     { SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs} } OPTIONAL,
SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD::= SEQUENCE (SIZE (1.. maxNrOfSyncDLCodesLCR)) OF SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD
SYNCD1CodeIdMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive
                                            SyncFrameNumber,
    sYNCDlCodeIdInfoLCR
                                            SYNCDlCodeIdInfoListLCR-CellSyncReconfRqstTDD,
    iE-Extensions
                                            ProtocolExtensionContainer { { SYNCDlCodeIdMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs} }
                                                                                                                                          OPTIONAL,
    . . .
SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SYNCDlCodeIdInfoListLCR-CellSyncReconfRgstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCDlCodeIdInfoItemLCR-
CellSyncReconfRqstTDD
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBMeasurementID
                                                CSBMeasurementID,
    sYNCDlCodeId
                                                SYNCDlCodeId,
    uARFCN
                                                UARFCN,
    propagationDelayCompensation
                                                TimingAdjustmentValueLCR
                                                                                 OPTIONAL,
```

```
ProtocolExtensionContainer { { SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    **********************
  CELL SYNCHRONISATION RECONFIGURATION RESPONSE TDD
CellSynchronisationReconfigurationResponseTDD ::= SEQUENCE {
                                               {{CellSynchronisationReconfigurationResponseTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                         ProtocolExtensionContainer {{CellSynchronisationReconfigurationResponseTDD-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
   . . .
CellSynchronisationReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReconfigurationResponseTDD-IEs NBAP-PROTOCOL-IES ::=
          id-CriticalityDiagnostics
                                                                                    CriticalityDiagnostics
                                                                                                               PRESENCE optional },
   { ID
                                                                            TYPE
                                                   CRITICALITY
                                                                 ignore
  *******************
  CELL SYNCHRONISATION RECONFIGURATION FAILURE TDD
  *******************
CellSynchronisationReconfigurationFailureTDD ::= SEQUENCE
                                                   {{CellSynchronisationReconfigurationFailureTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                         ProtocolExtensionContainer {{CellSynchronisationReconfigurationFailureTDD-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
   . . .
CellSynchronisationReconfigurationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReconfigurationFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-Cause
                                           CRITICALITY
                                                                     TYPE
                                                                                                                    PRESENCE mandatory
                                                          ignore
                                                                             Cause
          id-CriticalityDiagnostics
    { ID
                                           CRITICALITY
                                                          ignore
                                                                     TYPE
                                                                             CriticalityDiagnostics
                                                                                                            PRESENCE optional },
__ ***********************
```

```
CELL SYNCHRONISATION ADJUSTMENT REQUEST TDD
__ *********************
CellSynchronisationAdjustmentRequestTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                  {{CellSynchronisationAdjustmentRequestTDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer
                                                 {{CellSynchronisationAdjustmentRequestTDD-Extensions}}
                                                                                                       OPTIONAL,
CellSynchronisationAdjustmentRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
          CellAdjustmentInfo-SyncAdjustmentRqstTDD::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Sinqle-Container {{ CellAdjustmentInfoItemIE-
SyncAdjustmntRqstTDD }}
CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD NBAP-PROTOCOL-IES ::= {
   { ID id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD
                                                         CRITICALITY
                                                                        ignore
                                                                                      TYPE
                                                                                                          CellAdjustmentInfoItem-
SyncAdjustmentRqstTDD
                         PRESENCE
                                   mandatory 
CellAdjustmentInfoItem-SyncAdjustmentRqstTDD ::= SEQUENCE
   frameAdjustmentValue
                                       FrameAdjustmentValue
                                                                OPTIONAL,
   timingAdjustmentValue
                                       TimingAdjustmentValue
                                                                OPTIONAL,
   dLTransPower
                                       DL-Power
                                                                OPTIONAL, -- Applicable to 3.84Mcps TDD only
   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
                                   CRITICALITY ignore EXTENSION TimingAdjustmentValueLCR PRESENCE optional }, -- Applicable to 1.28Mcps TDD
     ID id-TimingAdjustmentValueLCR
only
  CELL SYNCHRONISATION ADJUSTMENT RESPONSE TDD
  *****************
CellSynchronisationAdjustmentResponseTDD ::= SEQUENCE
                                              {{CellSynchronisationAdjustmentResponseTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                         ProtocolExtensionContainer {{CellSynchronisationAdjustmentResponseTDD-Extensions}}
   protocolExtensions
                                                                                                        OPTIONAL,
```

```
CellSynchronisationAdjustmentResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationAdjustmentResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
                                             CRITICALITY
                                                                        TYPE
                                                                                CriticalityDiagnostics
                                                                                                                         PRESENCE optional },
    . . .
  ******************
  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 } |
                                                                        TYPE
     ID
           id-CriticalityDiagnostics
                                                 CRITICALITY ignore
                                                                                CriticalityDiagnostics
                                                                                                                            PRESENCE optional
CauseLevel-SyncAdjustmntFailureTDD ::= CHOICE {
   generalCause
                          GeneralCauseList-SyncAdjustmntFailureTDD,
                          CellSpecificCauseList-SyncAdjustmntFailureTDD,
   cellSpecificCause
GeneralCauseList-SyncAdjustmntFailureTDD::= SEQUENCE {
   cause
                                             ProtocolExtensionContainer { GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
    unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD
                                                                    Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD,
```

```
ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL.
CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB))
                                                                                                             OF ProtocolIE-Single-Container
{{ Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD }}
Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD NBAP-PROTOCOL-IES ::= {
          id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD
                                                                               CRITICALITY
                                                                                                             ignore
                                                                                                                        TYPE Unsuccessful-
cell-InformationRespItem-SyncAdjustmntFailureTDD
                                                    PRESENCE
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD::= SEQUENCE {
   c-ID
                                             C-ID,
   cause
                                             Cause,
   iE-Extensions
                                             ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-
ExtIEs } }
              OPTIONAL,
   . . .
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ********************
  CELL SYNCHRONISATION TERMINATION REQUEST TDD
  ******************
CellSynchronisationTerminationRequestTDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                 {{CellSynchronisationTerminationRequestTDD-IEs}},
   protocolIEs
                          ProtocolExtensionContainer {{CellSynchronisationTerminationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
   . . .
CellSynchronisationTerminationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationTerminationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                                        ignore
                                                                    TYPE
                                                                           C-ID
                                                                                                                     PRESENCE mandatory
                                         CRITICALITY
     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-ID
                                        CRITICALITY
                                                       ignore
                                                                  TYPE
                                                                          C-ID
                                                                                                                    PRESENCE mandatory
     ID
          id-CSBTransmissionID
                                                       ignore
                                                                          CSBTransmissionID
                                                                                                                   PRESENCE optional
                                        CRITICALITY
                                                                  TYPE
          id-CSBMeasurementID
                                        CRITICALITY
                                                        ignore
                                                                  TYPE
                                                                          CSBMeasurementID
                                                                                                                   PRESENCE optional
     ID
          id-Cause
                                        CRITICALITY
                                                       ignore
                                                                  TYPE
                                                                          Cause
                                                                                                                   PRESENCE mandatory
    ******************
  CELL SYNCHRONISATION REPORT TDD
        CellSynchronisationReportTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CellSynchronisationReportTDD-IEs}},
                         ProtocolExtensionContainer {{CellSynchronisationReportTDD-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
   . . .
CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CellSyncInfo-CellSyncReprtTDD
                                                CRITICALITY ignore
                                                                      TYPE
                                                                              CellSyncInfo-CellSyncReprtTDD
                                                                                                                 PRESENCE mandatory },
   . . .
CellSyncInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF CellSyncInfoItemIE-CellSyncReprtTDD
CellSyncInfoItemIE-CellSyncReprtTDD ::= SEQUENCE {
   c-ID-CellSyncReprtTDD
                                    C-ID-IE-CellSyncReprtTDD,
   syncReportType-CellSyncReprtTDD
                                     SyncReportTypeIE-CellSyncReprtTDD
                                                                          OPTIONAL,
C-ID-IE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ C-ID-IEs-CellSyncReprtTDD }}
```

```
C-ID-IEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID
          id-C-ID
                                                            CRITICALITY ignore TYPE C-ID
    PRESENCE
               mandatory}
SyncReportTypeIE-CellSyncReprtTDD::= ProtocolIE-Single-Container {{ SyncReportTypeIEs-CellSyncReprtTDD }}
SyncReportTypeIEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
           id-SyncReportType-CellSyncReprtTDD
                                                    CRITICALITY ignore
                                                                            TYPE SyncReportType-CellSyncReprtTDD
                                                                                                                       PRESENCE mandatory }
SyncReportType-CellSyncReprtTDD ::= CHOICE {
    intStdPhSyncInfo-CellSyncReprtTDD
                                            IntStdPhCellSyncInfo-CellSyncReprtTDD,
    lateEntrantCell
                                NULL,
                                NULL,
    frequencyAcquisition
IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE
    cellSyncBurstMeasuredInfo
                                                CellSyncBurstMeasInfoList-CellSyncReprtTDD,
                                                ProtocolExtensionContainer { { IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-AccumulatedClockupdate-CellSyncReprtTDD
                                                        CRITICALITY ignore EXTENSION
                                                                                        TimingAdjustmentValue
                                                                                                                     PRESENCE optional } |
     ID id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD CRITICALITY ignore EXTENSION
                                                                                         SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD
optional }, -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.
    . . .
CellSyncBurstMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReprtTDD --
Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
                                            SFN,
    cellSyncBurstInfo-CellSyncReprtTDD
                                            SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
    iE-Extensions
                                            ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs} }
    . . .
CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
    cellSyncBurstAvailable
                                CellSyncBurstAvailable-CellSyncReprtTDD,
    cellSyncBurstNotAvailable
CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
```

```
cellSyncBurstTiming
                                CellSyncBurstTiming,
    cellSyncBurstSIR
                                CellSyncBurstSIR,
    iE-Extensions
                                ProtocolExtensionContainer { { CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs} }
                                                                                                                        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,
                                            ProtocolExtensionContainer { { SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                       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
    svncDLCodeIdSIR
                                CellSyncBurstSIR,
    iE-Extensions
                                ProtocolExtensionContainer { { SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs } }
                                                                                                                        OPTIONAL,
SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- BEARER REARRANGEMENT INDICATION
BearerRearrangementIndication ::= SEQUENCE {
                                                                \{\{BearerRearrangementIndication-IEs\}\},
    protocolIEs
                                    ProtocolIE-Container
    protocolExtensions
                                    ProtocolExtensionContainer {{BearerRearrangementIndication-Extensions}}
                                                                                                                               OPTIONAL,
```

```
BearerRearrangementIndication-IES NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                      CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                        PRESENCE mandatory }
     ID id-SignallingBearerRequestIndicator
                                                      CRITICALITY ignore TYPE SignallingBearerRequestIndicator
                                                                                                                        PRESENCE optional
     ID id-DCH-RearrangeList-Bearer-RearrangeInd
                                                      CRITICALITY ignore TYPE DCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                        PRESENCE optional
     ID id-DSCH-RearrangeList-Bearer-RearrangeInd
                                                      CRITICALITY ignore TYPE DSCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                        PRESENCE optional
    -- TDD only.
    { ID id-USCH-RearrangeList-Bearer-RearrangeInd
                                                      CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                        PRESENCE optional }
    -- TDD only.
    { ID id-HSDSCH-RearrangeList-Bearer-RearrangeInd
                                                      CRITICALITY ignore TYPE HSDSCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                        PRESENCE optional },
BearerRearrangementIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-DCH-RearrangeList-Bearer-RearrangeInd
                                                      CRITICALITY ignore EXTENSION E-DCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                              PRESENCE optional
DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-RearrangeItem-Bearer-RearrangeInd
DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
   dCH-TD
                                                  DCH-ID,
   iE-Extensions
                                                  DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-RearrangeItem-Bearer-RearrangeInd
DSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
   dscH-ID
                                                  DSCH-ID.
   iE-Extensions
                                                  ProtocolExtensionContainer { { DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } 
                                                                                                                                    OPTIONAL,
DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-RearrangeItem-Bearer-RearrangeInd
USCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE
   uSCH-ID
                                                  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} } OPTIONAL,
   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
                       ProtocolExtensionContainer {{RadioLinkActivationCommandFDD-Extensions}}
                                                                                                                  OPTIONAL,
   protocolExtensions
RadioLinkActivationCommandFDD-IES NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
    { ID
                                                            CRITICALITY ignore TYPE
                                                                                      NodeB-CommunicationContextID
   PRESENCE
              mandatory }|
   { ID 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,
   delayed-activation-update DelayedActivationUpdate,
   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
    { ID
                                                         CRITICALITY ignore
                                                                          TYPE
                                                                                  NodeB-CommunicationContextID
              mandatory }
   PRESENCE
         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 ::= {
    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}},
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationFDD-Extensions}}
                                                                                                           OPTIONAL.
RadioLinkParameterUpdateIndicationFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                           CRITICALITY
                                                          ignore
                                                                     TYPE
                                                                            CRNC-CommunicationContextID
                                                                                                              PRESENCE mandatory } |
    ID id-HSDSCH-FDD-Update-Information
                                                          ignore
                                                                     TYPE
                                                                            HSDSCH-FDD-Update-Information
                                                                                                              PRESENCE optional },
                                           CRITICALITY
RadioLinkParameterUpdateIndicationFDD-Extensions NBAP-PROTOCOL-EXTENSION ::=
   { ID id-E-DCH-FDD-Update-Information
                                                                                                                 PRESENCE optional },
                                           CRITICALITY
                                                          ignore
                                                                     EXTENSION E-DCH-FDD-Update-Information
   . . .
  *****************
  RADIO LINK PARAMETER UPDATE INDICATION TDD
        ************
RadioLinkParameterUpdateIndicationTDD ::= SEQUENCE {
                                               {{RadioLinkParameterUpdateIndicationTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationTDD-Extensions}}
                                                                                                            OPTIONAL,
RadioLinkParameterUpdateIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                           CRITICALITY
                                                          ignore
                                                                     TYPE
                                                                            CRNC-CommunicationContextID
                                                                                                              PRESENCE mandatory
   { ID id-HSDSCH-TDD-Update-Information
                                                                     TYPE
                                                                            HSDSCH-TDD-Update-Information
                                                                                                              PRESENCE optional },
                                           CRITICALITY
                                                          ignore
RadioLinkParameterUpdateIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ******************
-- MBMS NOTIFICATION UPDATE COMMAND
```

PRESENCE mandatory

PRESENCE mandatory

PRESENCE mandatory

PRESENCE mandatory

PRESENCE optional

OPTIONAL.

END

```
__ *********************
MBMSNotificationUpdateCommand ::= SEQUENCE {
   protocolIEs
               ProtocolIE-Container
                                            {{ MBMSNotificationUpdateCommand-IEs}},
   protocolExtensions ProtocolExtensionContainer {{ MBMSNotificationUpdateCommand-Extensions}}
MBMSNotificationUpdateCommand-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                           CRITICALITY ignore TYPE C-ID
     ID id-CommonPhysicalChannelID
                                           CRITICALITY ignore TYPE CommonPhysicalChannelID
     ID id-Modification-Period
                                           CRITICALITY ignore TYPE Modification-Period
     ID id-MICH-CFN
                                           CRITICALITY ignore TYPE MICH-CFN
   { ID id-NI-Information-NotifUpdateCmd
                                       CRITICALITY ignore TYPE NI-Information
MBMSNotificationUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

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-OUANTSTEPs,
   maxNrOfEDCHHARQProcesses2msEDCH,
   maxNrOfBits-MACe-PDU-non-scheduled,
```

```
maxNrOfEDPCCH-PO-QUANTSTEPs,
maxNrOfRefETFCI-PO-QUANTSTEPs,
maxNrOfRefETFCIs.
maxNrOfMeasNCell,
maxNrOfMeasNCell-1,
maxNrOfReceptsPerSyncFrame,
maxNrOfSF,
maxTGPS,
maxNrOfUSCHs,
maxNrOfULTSs.
maxNrOfULTSLCRs,
maxNrOfDPCHs.
maxNrOfDPCHLCRs,
maxNrOfCodes,
maxNrOfDSCHs,
maxNrOfDLTSs,
maxNrOfDLTSLCRs,
maxNrOfDCHs,
maxNrOfLevels,
maxNoGPSItems,
maxNoSat,
maxNrOfCellPortionsPerCell,
maxNrOfCellPortionsPerCell-1,
maxNrOfHSSCCHs.
maxNrOfHSSCCHCodes,
maxNrOfMACdFlows,
maxNrOfMACdFlows-1,
maxNrOfMACdPDUIndexes,
maxNrOfMACdPDUIndexes-1,
maxNrOfMACdPDUSize,
maxNrOfNIs,
maxNrOfPriorityQueues,
maxNrOfPriorityQueues-1,
maxNrOfHARQProcesses,
maxNrOfSvncDLCodesLCR,
maxNrOfSyncFramesLCR,
maxNrOfContextsOnUeList,
maxNrOfPriorityClasses,
maxNrOfSatAlmanac-maxNoSat,
maxNrOfE-AGCHs,
maxNrOfEDCHMACdFlows,
maxNrOfEDCHMACdFlows-1,
maxNrOfE-RGCHs-E-HICHs,
maxNrofSiqSeqRGHI-1,
maxNoOfLogicalChannels,
id-MessageStructure,
id-ReportCharacteristicsType-OnModification,
id-Rx-Timing-Deviation-Value-LCR,
id-SFNSFNMeasurementValueInformation.
id-SFNSFNMeasurementThresholdInformation,
id-TUTRANGPSMeasurementValueInformation,
```

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```
id-TUTRANGPSMeasurementThresholdInformation,
    id-TypeOfError,
    id-transportlayeraddress,
    id-bindingID,
    id-Angle-Of-Arrival-Value-LCR,
    id-SyncDLCodeIdThreInfoLCR,
    id-neighbouringTDDCellMeasurementInformationLCR,
    id-HS-SICH-Reception-Quality,
    id-HS-SICH-Reception-Quality-Measurement-Value,
    id-Initial-DL-Power-TimeslotLCR-InformationItem,
    id-Maximum-DL-Power-TimeslotLCR-InformationItem,
    id-Minimum-DL-Power-TimeslotLCR-InformationItem,
    id-Received-total-wide-band-power-For-CellPortion,
    id-Received-total-wide-band-power-For-CellPortion-Value, id-Transmitted-Carrier-Power-For-CellPortion,
    id-Transmitted-Carrier-Power-For-CellPortion-Value,
    id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission.
    id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion,
    id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue,
    id-HS-DSCHRequiredPowerValueInformation,
    id-HS-DSCHProvidedBitRateValueInformation.
    id-HS-DSCHRequiredPowerValue,
    id-HS-DSCHRequiredPowerValue-For-Cell-Portion,
    id-HS-DSCHRequiredPowerValueInformation-For-CellPortion,
    id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion,
    id-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-HSSICH-TPC-StepSize,
    id-ueCapability-Info,
    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
FROM NBAP-Constants
    Criticality,
    ProcedureID,
    ProtocolIE-ID,
    TransactionID.
    TriggeringMessage
FROM NBAP-CommonDataTypes
    NBAP-PROTOCOL-IES,
    ProtocolExtensionContainer().
```

```
ProtocolIE-Single-Container{},
   NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
-- -----
-- ------
AckNack-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
Ack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [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,
    iE-Extensions
                                             ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
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,
                          ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
       iE-Extensions
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.
```

```
AICH-TransmissionTiming ::= ENUMERATED {
   νO,
   v1
AllocationRetentionPriority ::= SEQUENCE {
   priorityLevel
                             PriorityLevel,
   pre-emptionCapability
                             Pre-emptionCapability,
   pre-emptionVulnerability
                             Pre-emptionVulnerability,
   iE-Extensions
                             ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
    . . .
AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
   aOA-LCR
                             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,q,h,...}
AvailabilityStatus ::= ENUMERATED {
   empty,
   in-test,
   failed,
   power-off,
   off-line,
   off-duty,
   dependency,
   degraded,
   not-installed,
   log-full,
  _____
BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
```

OPTIONAL,

```
-- 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,
   iE-Extensions
                              ProtocolExtensionContainer { { Best-Cell-Portions-Item-ExtIEs} }
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 {
    active,
    inactive
BundlingModeIndicator ::= ENUMERATED
    bundling,
    no-bundling
    ------
-- -----
Cause ::= CHOICE {
   radioNetwork
                          CauseRadioNetwork,
    transport
                       CauseTransport,
                          CauseProtocol,
   protocol
                          CauseMisc,
   misc
    . . .
```

```
CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure.
    oam-intervention.
    not-enough-user-plane-processing-resources,
    unspecified,
    . . .
CauseProtocol ::= ENUMERATED {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    abstract-syntax-error-falsely-constructed-message,
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available.
    power-level-not-supported,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    requested-tx-diversity-mode-not-supported,
    unspecified,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    s-cpich-not-supported,
    combining-not-supported,
    ul-sf-not-supported,
    dl-SF-not-supported,
    common-transport-channel-type-not-supported,
    dedicated-transport-channel-type-not-supported,
    downlink-shared-channel-type-not-supported,
    uplink-shared-channel-type-not-supported,
    cm-not-supported,
    tx-diversity-no-longer-supported,
    unknown-Local-Cell-ID,
    number-of-UL-codes-not-supported,
```

```
information-temporarily-not-available,
    information-provision-not-supported-for-the-object,
    cell-synchronisation-not-supported,
    cell-synchronisation-adjustment-not-supported,
    dpc-mode-change-not-supported,
    iPDL-already-activated,
    iPDL-not-supported,
    iPDL-parameters-not-available,
    frequency-acquisition-not-supported,
    power-balancing-status-not-compatible,
    requested-typeofbearer-re-arrangement-not-supported,
    signalling-Bearer-Re-arrangement-not-supported,
    bearer-Re-arrangement-needed,
    delayed-activation-not-supported,
    rl-timing-adjustment-not-supported,
    mich-not-supported,
    f-DPCH-not-supported,
    modification-period-not-available
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,...),
                           INTEGER (0..127,...)
    steadyStatePhase
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,
CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
   SEQUENCE {
       dl-Cost
                   INTEGER (0..65535),
       ul-Cost
                   INTEGER (0..65535),
       iE-Extensions
                          OPTIONAL,
CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommonMeasurementAccuracy ::= CHOICE {
   tUTRANGPSMeasurementAccuracyClass
                                          TUTRANGPSAccuracyClass,
    . . .
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
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-Value.
    uL-TimeslotISCP
   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 }
     ID id-SFNSFNMeasurementValueInformation
                                                          CRITICALITY ignore TYPE SFNSFNMeasurementValueInformation
                                                                                                                         PRESENCE mandatory }
     TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                  PRESENCE mandatory } |
     ID id-HS-DSCHRequiredPowerValueInformation
                                                          CRITICALITY ignore TYPE HS-DSCHRequiredPower
                                                                                                                         PRESENCE mandatory
     ID id-HS-DSCHProvidedBitRateValueInformation
                                                          CRITICALITY ignore TYPE HS-DSCHProvidedBitRate
                                                                                                                         PRESENCE mandatory }
     ID id-Transmitted-Carrier-Power-For-CellPortion-Value CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-Value PRESENCE
mandatory }|
    { ID id-Received-total-wide-band-power-For-CellPortion-Value
                                                                  CRITICALITY ignore TYPE Received-total-wide-band-power-For-CellPortion-Value
    PRESENCE mandatory } |
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValueCRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue PRESENCE mandatory }
                                                                  CRITICALITY ignore TYPE UpPTSInterferenceValue
    { ID id-UpPTSInterferenceValue
                                                                                                                                       PRESENCE
mandatory }|
    { ID id-DLTransmissionBranchLoadValue
                                                                  CRITICALITY ignore TYPE DLTransmissionBranchLoadValue
    PRESENCE mandatory } |
    { ID id-HS-DSCHRequiredPowerValueInformation-For-CellPortion
                                                                  CRITICALITY ignore TYPE HS-DSCHRequiredPowerValueInformation-For-CellPortion
    PRESENCE mandatory }
    { ID id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion
                                                                 CRITICALITY ignore TYPE HS-DSCHProvidedBitRateValueInformation-For-CellPortion
    PRESENCE mandatory }
    { ID id-E-DCHProvidedBitRateValueInformation
                                                                  CRITICALITY ignore TYPE E-DCHProvidedBitRate
    PRESENCE mandatory } |
    { ID id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue
                                                                  CRITICALITY ignore TYPE E-DCH-Non-serving-Relative-Grant-Down-Commands
    PRESENCE mandatory }
CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                               CommonMeasurementAvailable,
    measurementnotAvailable
                               CommonMeasurementnotAvailable
CommonMeasurementAvailable::= SEQUENCE {
                               CommonMeasurementValue,
    commonmeasurementValue
                                   ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs} }
   ie-Extensions
                                                                                                                   OPTIONAL,
CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
CommonMeasurementnotAvailable ::= NULL
CommonPhysicalChannelID ::= INTEGER (0..255)
Common-PhysicalChannel-Status-Information ::= SEQUENCE {
         commonPhysicalChannelID
                                                                                   CommonPhysicalChannelID,
         resourceOperationalState
                                                                                            ResourceOperationalState,
         availabilityStatus
                                                                                            AvailabilityStatus,
                                                                                             iE-Extensions
                                                                                                                                                                                                                                                                                                       OPTIONAL,
Common-PhysicalChannel-Status-Information-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
{\tt CommonTransportChannel-InformationResponse-ExtIEs~NBAP-PROTOCOL-EXTENSIOM~::=~\{longleting a property of the property of t
Common-TransportChannel-Status-Information ::= SEQUENCE {
         commonTransportChannelID
                                                                                            CommonTransportChannelID,
         resourceOperationalState
                                                                                            ResourceOperationalState,
         availabilityStatus
                                                                                            AvailabilityStatus,
         iE-Extensions
                                                                                             ProtocolExtensionContainer { { Common-TransportChannel-Status-Information-ExtIEs} }
                                                                                                                                                                                                                                                                                                       OPTIONAL,
Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CommunicationControlPortID ::= INTEGER (0..65535)
Compressed-Mode-Deactivation-Flag::= ENUMERATED {
         deactivate.
         maintain-Active
ConfigurationGenerationID ::= INTEGER (0..255)
```

```
-- Value '0' means "No configuration"
ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB
CQI-Feedback-Cycle ::= ENUMERATED {v0, v2, v4, v8, v10, v20, v40, v80, v160,...}
CQI-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,
   procedureCriticality
                            Criticality
                                                  OPTIONAL,
   transactionID
                            TransactionID
                                                     OPTIONAL,
   ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
   iE-Extensions
                                                                                                       OPTIONAL,
CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
   SEQUENCE {
      iECriticality
                         Criticality,
                         ProtocolIE-ID,
       repetitionNumber
                        RepetitionNumber0
                                              OPTIONAL,
                         ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} }
      iE-Extensions
                                                                                                          OPTIONAL,
CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-MessageStructure
                            CRITICALITY ignore
                                                     EXTENSION MessageStructure
                                                                                  PRESENCE optional
      ID id-TypeOfError
                                CRITICALITY ignore
                                                     EXTENSION TypeOfError
                                                                                  PRESENCE mandatory
   . . .
CRNC-CommunicationContextID ::= INTEGER (0..1048575)
CSBMeasurementID ::= INTEGER (0..65535)
CSBTransmissionID ::= INTEGER (0..65535)
-- ------
-- -----
```

```
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
                                  ToAWE,
   dCH-SpecificInformationList
                                  DCH-Specific-FDD-InformationList,
   iE-Extensions
                                  ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs} } 
                                                                                                     OPTIONAL,
DCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                             PRESENCE optional
   { ID id-TnlOos
                                  CRITICALITY ignore
                                                       EXTENSION TnlOos
   . . .
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,
   qE-Selector
                                  QE-Selector,
   iE-Extensions
                                   OPTIONAL,
DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   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
   transportLayerAddress
                                             TransportLayerAddress OPTIONAL,
   iE-Extensions
                                             OPTIONAL,
```

```
DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-InformationItem ::= SEOUENCE {
   payloadCRC-PresenceIndicator
                                     PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                     UL-FP-Mode,
   toAWS
                                     ToAWS,
                                     ToAWE,
   dCH-SpecificInformationList
                                     DCH-Specific-TDD-InformationList,
   iE-Extensions
                                        ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs} }
                                                                                                             OPTIONAL,
DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   {ID id-TnlOos
                                     CRITICALITY ignore
                                                           EXTENSION TnlOos
                                                                                  PRESENCE optional },
   . . .
DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item
DCH-Specific-TDD-Item ::=
                         SEOUENCE {
   dCH-ID
                                        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-ExtlEs 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-TnlOos
                                      CRITICALITY ignore
                                                            EXTENSION TnlOos
                                                                                   PRESENCE optional },
DCH-ModifySpecificInformation-FDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD
DCH-ModifySpecificItem-FDD::=
                              SEQUENCE {
    dCH-ID
                                                 DCH-ID.
   ul-TransportFormatSet
                                                                            OPTIONAL,
                                                 TransportFormatSet
    dl-TransportFormatSet
                                                 TransportFormatSet
                                                                            OPTIONAL,
    allocationRetentionPriority
                                                 AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                 FrameHandlingPriority
                                                                            OPTIONAL,
   iE-Extensions
                                                 OPTIONAL,
DCH-ModifySpecificItem-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-Unidirectional-DCH-Indicator
                                                     CRITICALITY reject
                                                                            EXTENSION Unidirectional-DCH-Indicator
                                                                                                                   PRESENCE optional },
    . . .
TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD
DCH-ModifyItem-TDD ::= SEQUENCE {
                                      UL-FP-Mode
   ul-FP-Mode
                                                     OPTIONAL,
   toAWS
                                      ToAWS
                                                     OPTIONAL,
    toAWE
                                      ToAWE
                                                     OPTIONAL,
    transportBearerRequestIndicator
                                      TransportBearerRequestIndicator,
    dCH-SpecificInformationList
                                      DCH-ModifySpecificInformation-TDD,
   iE-Extensions
                                      ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs} } 
                                                                                                                   OPTIONAL,
TDD-DCHs-to-ModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                                      CRITICALITY ignore
                                                                                   PRESENCE optional },
                                                            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
                                                 OPTIONAL,
```

```
DCH-ModifySpecificItem-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
   SEOUENCE {
      dl-Cost-1
                  INTEGER (0..65535),
      dl-Cost-2
               INTEGER (0..65535),
               INTEGER (0..65535),
      ul-Cost-1
      ul-Cost-2 INTEGER (0..65535),
                      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
DedicatedMeasurementValue ::= CHOICE {
   sIR-Value
                            SIR-Value,
   sIR-ErrorValue
                            SIR-Error-Value,
   transmittedCodePowerValue
                               Transmitted-Code-Power-Value,
                                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-Angle-Of-Arrival-Value-LCR CRITICALITY reject TYPE Angle-Of-Arrival-Value-LCR PRESENCE mandatory }
    { ID id-Best-Cell-Portions-Value
                                CRITICALITY reject TYPE Best-Cell-Portions-Value PRESENCE mandatory },
```

```
DedicatedMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                              DedicatedMeasurementAvailable,
    measurementnotAvailable
                              DedicatedMeasurementnotAvailable
DedicatedMeasurementAvailable::= SEQUENCE {
    dedicatedmeasurementValue
                                  DedicatedMeasurementValue,
    cFN
                                                             OPTIONAL,
                                   ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs} }
    ie-Extensions
                                                                                                                  OPTIONAL,
DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementnotAvailable ::= NULL
DelayedActivation ::= CHOICE {
    cfn
                           CFN,
    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,
    iE-Extensions
                           OPTIONAL,
```

```
Deactivate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Execution-Type ::= CHOICE {
            synchronised CFN,
            unsynchronised NULL
                                                                     ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.
DGPSCorrections ::= SEQUENCE {
        qpstow
                                                                           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, v10000, v10000,
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,
   tFCT-Presence
                                          TFCI-Presence,
                                          TDD-DL-Code-LCR-Information.
   dL-Code-LCR-Information
                                          ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                                  OPTIONAL,
DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Initial-DL-Power-TimeslotLCR-InformationItem
                                                                                                                   PRESENCE optional } |
                                                          CRITICALITY ignore
                                                                              EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
   { ID id-Maximum-DL-Power-TimeslotLCR-InformationItem
                                                          CRITICALITY ignore
                                                                                                                   PRESENCE optional } |
                                                                              EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
    { ID id-Minimum-DL-Power-TimeslotLCR-InformationItem CRITICALITY ignore
                                                                                                                   PRESENCE optional },
                                                                             EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-FrameType ::= ENUMERATED {
   typeA,
   typeB,
```

```
DL-or-Global-CapacityCredit ::= INTEGER (0..65535)
DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power/10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
DLPowerAveragingWindowSize ::= INTEGER (1..60)
DL-PowerBalancing-Information ::= SEQUENCE {
   powerAdjustmentType
                                       PowerAdjustmentType,
   dLReferencePower
                                       DL-Power
                                                      OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common'
   dLReferencePowerList-DL-PC-Rqst DL-ReferencePowerInformationList
                                                                              OPTIONAL.
    -- This IE shall be present if Power Adjustment Type IE equals to 'Individual'
   maxAdjustmentStep
                                      MaxAdjustmentStep
                                                              OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                      AdjustmentPeriod
    adjustmentPeriod
                                                              OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                       ScaledAdjustmentRatio OPTIONAL,
    adjustmentRatio
    -- 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-Power,
   dl-Reference-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)
```

OPTIONAL,

OPTIONAL,

```
DL-TimeslotISCPInfo ::= SEOUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem
DL-TimeslotISCPInfoItem ::= SEQUENCE {
    timeSlot
                               TimeSlot.
    dL-TimeslotISCP
                               DL-TimeslotISCP,
                               ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} }
    iE-Extensions
DL-TimeslotISCPInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-TimeslotISCPInfoLCR ::= SEOUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR
DL-TimeslotISCPInfoItemLCR ::= SEQUENCE {
    timeSlotLCR
                      TimeSlotLCR,
    dL-TimeslotISCP
                             DL-TimeslotISCP,
    iE-Extensions
                            ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }
DL-TimeslotISCPInfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-TPC-Pattern01Count ::= INTEGER (0..30,...)
DLTransmissionBranchLoadValue ::= INTEGER (0..101,...)
Downlink-Compressed-Mode-Method
                                  ::= ENUMERATED {
    not-Used-puncturing,
    sFdiv2.
    higher-layer-scheduling,
DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
DPCH-ID ::= INTEGER (0..239)
DSCH-ID ::= INTEGER (0..255)
DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem
DSCH-InformationResponseItem ::= SEQUENCE {
    dscH-ID
                                                    DSCH-ID,
    bindingID
                                                    BindingID
                                                                               OPTIONAL,
```

```
transportLayerAddress
                                                TransportLayerAddress
                                                                          OPTIONAL,
   iE-Extensions
                                                OPTIONAL,
   . . .
DSCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem
DSCH-TDD-InformationItem ::= SEQUENCE {
   dscH-ID
                                        DSCH-ID,
   cCTrCH-ID
                                        CCTrCH-ID.
   transportFormatSet
                                        TransportFormatSet,
   allocationRetentionPriority
                                        AllocationRetentionPriority,
   frameHandlingPriority
                                        FrameHandlingPriority,
                                        ToAWS,
   toAWS
   toAWE
                                        TOAWE,
                                        ProtocolExtensionContainer { { DSCH-TDD-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                             OPTIONAL,
DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-bindingID
                                    CRITICALITY ignore
                                                           EXTENSION
                                                                      BindingID
                                                                                        PRESENCE
                                                                                                           optional }|
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                    CRITICALITY ignore
                                                                                                           PRESENCE
                                                                                                                     optional },
                                                           EXTENSION
                                                                     TransportLayerAddress
   -- Shall be ignored if bearer establishment with ALCAP.
   . . .
DsField ::= BIT STRING (SIZE (8))
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 {
```

OPTIONAL,

OPTIONAL,

OPTIONAL,

```
e-DCH-capable,
   e-DCH-non-capable
E-DCHCapacityConsumptionLaw ::= SEQUENCE {
       e-DCH-SF-allocation E-DCH-SF-allocation,
       dl-Cost-1 INTEGER (0..65535)
       dl-Cost-2
                            INTEGER (0..65535)
       iE-Extensions
                           ProtocolExtensionContainer { { E-DCHCapacityConsumptionLaw-ExtIEs } }
   . . .
E-DCHCapacityConsumptionLaw-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-SF-allocation ::= SEQUENCE ( SIZE(1..maxNrOfCombEDPDCH) ) OF
   SEQUENCE {
       ul-Cost-1
                    INTEGER (0..65535),
       ul-Cost-2 INTEGER (0..65535),
       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,

```
FDD-DL-ChannelisationCodeNumber
    e-AGCH-Channelisation-Code
                                                                                                                                            OPTIONAL,
    primary-e-RNTI
                                                     E-RNTT
                                                                                                                                            OPTIONAL.
    secondary-e-RNTI
                                                     E-RNTI
                                                                                                                                            OPTIONAL.
    e-RGCH-E-HICH-Channelisation-Code
                                                     FDD-DL-ChannelisationCodeNumber
                                                                                                                                            OPTIONAL.
    e-RGCH-Signature-Sequence
                                                     E-RGCH-Signature-Sequence
                                                                                                                                            OPTIONAL.
    e-HICH-Signature-Sequence
                                                     E-HICH-Signature-Sequence
                                                                                                                                            OPTIONAL,
    serving-Grant-Value
                                                     E-Serving-Grant-Value
                                                                                                                                            OPTIONAL,
                                                     E-Primary-Secondary-Grant-Selector
    primary-Secondary-Grant-Selector
                                                                                                                                            OPTIONAL,
    e-RGCH-Release-Indicator
                                                     E-RGCH-Release-Indicator
    OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-FDD-DL-Control-Channel-Information-ExtIEs} }
                                                                                                                                           OPTIONAL,
E-DCH-FDD-DL-Control-Channel-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-FDD-Information ::= SEQUENCE {
    e-DCH-MACdFlows-Information
                                                     E-DCH-MACdFlows-Information.
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                     HARO-Process-Allocation-2ms-EDCH
                                                                                                                                            OPTIONAL,
    e-DCH-Maximum-Bitrate
                                                     E-DCH-Maximum-Bitrate
                                                                                                                                            OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
                                                                                                                                            OPTIONAL,
    e-DCH-Reference-Power-Offset
                                                     E-DCH-Reference-Power-Offset
                                                                                                                                            OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Information-ExtIEs} }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
E-DCH-FDD-Information-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-FDD-Information-Response ::= SEQUENCE
    e-DCH-MACdFlow-Specific-InformationResp
                                                     E-DCH-MACdFlow-Specific-InformationResp
                                                                                                                                            OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                     HARQ-Process-Allocation-2ms-EDCH
                                                                                                                                            OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                            OPTIONAL,
E-DCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-FDD-Information-to-Modify ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info-to-Modify
                                                     E-DCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                                            OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                     HARO-Process-Allocation-2ms-EDCH
                                                                                                                                           OPTIONAL,
    e-DCH-Maximum-Bitrate
                                                     E-DCH-Maximum-Bitrate
                                                                                                                                            OPTIONAL,
                                                     E-DCH-Processing-Overload-Level
    e-DCH-Processing-Overload-Level
                                                                                                                                            OPTIONAL,
    e-DCH-Reference-Power-Offset
                                                     E-DCH-Reference-Power-Offset
                                                                                                                                            OPTIONAL,
    mACeReset-Indicator
                                                     MACeReset-Indicator
                                                                                                                                            OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Information-to-Modify-ExtIEs} } 
    iE-Extensions
                                                                                                                                            OPTIONAL,
    . . .
```

```
E-DCH-FDD-Information-to-Modify-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-FDD-Update-Information ::= SEQUENCE
    e-DCH-MACdFlow-Specific-UpdateInformation
                                                    E-DCH-MACdFlow-Specific-UpdateInformation
                                                                                                                                          OPTIONAL,
    hARO-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARQ-Process-Allocation-2ms-EDCH
                                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
E-DCH-FDD-Update-Information-ExtIEs 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 ::= SEOUENCE (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,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelInformationItem-ExtIEs } }
                                                                                                                           OPTIONAL,
E-DCH-LogicalChannelInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...)
E-DCH-Processing-Overload-Level ::= INTEGER (0..10,...)
E-DCH-Reference-Power-Offset ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-QUANTSTEPs)
E-DCH-MACdPDU-SizeList ::= SEOUENCE (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 ::= SEOUENCE (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-HARQ-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)
E-DCH-MACdFlows-Information ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info
                                                     E-DCH-MACdFlow-Specific-InfoList,
                                                    ProtocolExtensionContainer { { E-DCH-MACdFlows-Information-ExtIEs} }
   iE-Extensions
                                                                                                                                          OPTIONAL,
E-DCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlow-Multiplexing-List ::= BIT STRING ( SIZE(maxNrOfEDCHMACdFlows) )
E-DCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem
E-DCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                    AllocationRetentionPriority,
                                                                                                                                          OPTIONAL,
    tnlOos
                                                    Tnl0os
    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,
                                                     E-DCH-LogicalChannelInformation,
    eDCHLogicalChannelInformation
                                                     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,
    hARQ-Process-Allocation-NonSched-2ms-EDCH
                                                    HARQ-Process-Allocation-2ms-EDCH
                                                                                                                                          OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs} }
    OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (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
                                                    TnlOos
                                                                                                                                          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,
                                                    E-DCH-Grant-Type-Information
    eDCH-Grant-Type-Information
                                                                                                                                          OPTIONAL,
    bundlingModeIndicator
                                                     BundlingModeIndicator
                                                                                                                                          OPTIONAL,
    eDCH-LogicalChannelToAdd
                                                     E-DCH-LogicalChannelInformation
                                                                                                                                          OPTIONAL,
    eDCH-LogicalChannelToModify
                                                    E-DCH-LogicalChannelToModify
                                                                                                                                          OPTIONAL.
    eDCH-LogicalChannelToDelete
                                                    E-DCH-LogicalChannelToDelete
                                                                                                                                          OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs}
    OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlows-to-Delete ::= SEOUENCE (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,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-to-Delete-Item-ExtIEs} }
                                                                                                                                          OPTIONAL,
E-DCH-MACdFlow-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
E-DCH-Non-Scheduled-Transmission-Grant-Items ::= SEOUENCE
    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 ::= {
    . . .
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,
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
    iE-Extensions
E-DCH-serving-cell-informationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-serving-cell-choice ::= CHOICE {
    e-DCH-serving-cell-change-successful
                                                E-DCH-serving-cell-change-successful,
    e-DCH-serving-cell-change-unsuccessful
                                                E-DCH-serving-cell-change-unsuccessful,
    . . .
E-DCH-serving-cell-change-successful ::= SEQUENCE {
    e-DCH-RL-InformationList-Rsp
                                            E-DCH-RL-InformationList-Rsp,
                                        ProtocolExtensionContainer { { E-DCH-serving-cell-change-successful-ExtIEs} } OPTIONAL,
    iE-Extensions
E-DCH-RL-InformationList-Rsp ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF E-DCH-RL-InformationList-Rsp-Item
E-DCH-RL-InformationList-Rsp-Item ::= SEQUENCE {
                                        RL-ID,
    e-DCH-FDD-DL-Control-Channel-Info E-DCH-FDD-DL-Control-Channel-Information,
                                                    ProtocolExtensionContainer { { E-DCH-RL-InformationList-Rsp-Item-ExtIEs} } OPTIONAL,
   iE-Extensions
E-DCH-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-RL-InformationList-Rsp-Item-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-serving-cell-change-unsuccessful ::= SEQUENCE {
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
```

```
E-DCH-serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-TFCI-Table-Index ::= INTEGER (0..1,...)
E-DPCCH-PO ::= INTEGER (0..maxNrOfEDPCCH-PO-QUANTSTEPs)
E-Primary-Secondary-Grant-Selector ::= ENUMERATED {
    primary,
    secondary
E-HICH-Signature-Sequence ::= INTEGER (0..maxNrofSigSegRGHI-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 {
                           E-RGCH-E-HICH-FDD-Code-List,
    replace
    remove
                            NULL,
E-RGCH-E-HICH-FDD-Code-List ::= SEOUENCE (SIZE (1..maxNrOfE-RGCHs-E-HICHs)) OF FDD-DL-ChannelisationCodeNumber
E-RGCH-Release-Indicator ::= ENUMERATED {e-RGCHreleased}
E-RGCH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
E-RNTI ::= INTEGER (0..65535)
E-TFCI ::= INTEGER (0..127)
E-TFCS-Information ::= SEOUENCE {
                                                         E-DCH-TFCI-Table-Index,
    e-DCH-TFCI-Table-Index
    e-DCH-Min-Set-E-TFCI
                                                     E-TFCI
                                                                     OPTIONAL,
    reference-E-TFCI-Information
                                                     Reference-E-TFCI-Information,
                                                     ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
E-TFCS-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
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
-- -----
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 ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF FDD-DL-CodeInformationItem
FDD-DL-CodeInformationItem ::= SEQUENCE {
    dl-ScramblingCode
                                          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber
                                          FDD-DL-ChannelisationCodeNumber,
    transmissionGapPatternSequenceCodeInformation
                                                     TransmissionGapPatternSequenceCodeInformation
                                                                                                                 OPTIONAL,
                                          ProtocolExtensionContainer { { FDD-DL-CodeInformationItem-ExtIEs} }
   iE-Extensions
                                                                                                              OPTIONAL,
FDD-DL-CodeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

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```
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
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
-- -----
-- G
-- ------
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,
   ie-Extensions
                        OPTIONAL,
GPS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SAT-Info-Almanac-ExtItem
                                      CRITICALITY ignore
                                                                                                        PRESENCE optional },
                                                              EXTENSION
                                                                         SAT-Info-Almanac-ExtList
    . . .
GPS-Ionospheric-Model ::= SEQUENCE {
  alpha-zero-ionos
                    BIT STRING (SIZE (8)),
                    BIT STRING (SIZE (8)),
BIT STRING (SIZE (8)),
  alpha-one-ionos
  alpha-two-ionos
  alpha-three-ionos
                        BIT STRING (SIZE (8)),
  beta-zero-ionos
                        BIT STRING (SIZE (8)),
  beta-one-ionos
                        BIT STRING (SIZE (8)),
  beta-two-ionos
                        BIT STRING (SIZE (8)),
  beta-three-ionos
                        BIT STRING (SIZE (8)),
  ie-Extensions
                        ProtocolExtensionContainer { GPS-Ionospheric-Model-ExtIEs} }
                                                                                          OPTIONAL,
GPS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GPS-Information ::= SEQUENCE (SIZE (0..maxNoGPSItems)) OF GPS-Information-Item
-- This IE shall be present if the Information Type Item IE indicates "GPS Information"
GPS-Information-Item ::= ENUMERATED {
  gps-navigation-model-and-time-recovery,
  gps-ionospheric-model,
  gps-utc-model,
  qps-almanac,
  qps-rt-integrity,
GPS-RealTime-Integrity ::= CHOICE {
```

```
bad-satellites
                                GPSBadSat-Info-RealTime-Integrity,
    no-bad-satellites
                                NULL
GPSBadSat-Info-RealTime-Integrity ::= SEQUENCE {
    sat-info
                                    SATInfo-RealTime-Integrity,
    ie-Extensions
                                    ProtocolExtensionContainer { { GPSBadSat-Info-RealTime-Integrity-ExtIEs} }
                                                                                                                        OPTIONAL,
GPSBadSat-Info-RealTime-Integrity-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
GPS-NavigationModel-and-TimeRecovery ::= SEQUENCE (SIZE (1..maxNoSat)) OF GPS-NavandRecovery-Item
GPS-NavandRecovery-Item ::= SEQUENCE {
 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)),
                                   BIT STRING (SIZE (2)),
  ca-or-p-on-12-nav
 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-gd-nav
                                   BIT STRING (SIZE (8)),
  t-oc-nav
                                   BIT STRING (SIZE (16)),
  a-f-2-nav
                                   BIT STRING (SIZE (8)),
  a-f-1-nav
                                   BIT STRING (SIZE (16)),
 a-f-zero-nav
                                   BIT STRING (SIZE (22)),
 c-rs-nav
                                   BIT STRING (SIZE (16)),
 delta-n-nav
                                   BIT STRING (SIZE (16)),
  m-zero-nav
                                   BIT STRING (SIZE (32)),
  c-uc-nav
                                   BIT STRING (SIZE (16)),
  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)),
  aodo-nav
                                   BIT STRING (SIZE (5)),
  c-ic-nav
                                   BIT STRING (SIZE (16)),
  omega-zero-nav
                                   BIT STRING (SIZE (32)),
  c-is-nav
                                   BIT STRING (SIZE (16)),
 i-zero-nav
                                   BIT STRING (SIZE (32)),
  c-rc-nav
                                   BIT STRING (SIZE (16)),
  gps-omega-nav
                                   BIT STRING (SIZE (32)),
```

OPTIONAL,

```
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} }
   . . .
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)),
  w-n-t-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
                        OPTIONAL,
   . . .
```

```
GPS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- -----
-- -----
HARQ-Info-for-E-DCH ::= ENUMERATED {
    rv0,
    rvtable
HARQ-MemoryPartitioning ::= CHOICE {
    implicit
                   HARO-MemoryPartitioning-Implicit,
    explicit
                   HARO-MemoryPartitioning-Explicit,
HARQ-MemoryPartitioning-Implicit ::= SEQUENCE
   number-of-Processes INTEGER (1..8,...),
                            ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Implicit-ExtIEs } }
    iE-Extensions
                                                                                                           OPTIONAL.
HARQ-MemoryPartitioning-Implicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HARQ-MemoryPartitioning-Explicit
                                  ::= SEQUENCE {
    hARQ-MemoryPartitioningList
                                      HARQ-MemoryPartitioningList,
                                      ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Explicit-ExtIEs } }
    iE-Extensions
                                                                                                                    OPTIONAL,
    . . .
HARQ-MemoryPartitioning-Explicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HARQ-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQ-MemoryPartitioningItem
HARQ-MemoryPartitioningItem ::= SEQUENCE {
    process-Memory-Size
                                      ENUMERATED 4
                                      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 { { HARO-MemoryPartitioningItem-ExtIEs } }
                                                                                                                    OPTIONAL,
HARQ-MemoryPartitioningItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HARQ-Preamble-Mode ::= ENUMERATED {
  mode0.
  mode1
HARO-Process-Allocation-2ms-EDCH ::= BIT STRING ( SIZE (maxNrOfEDCHHAROProcesses2msEDCH) )
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,
   iE-Extensions
                                        ProtocolExtensionContainer { { HS-DSCHProvidedBitRate-Item-ExtIEs} }
                                                                                                                       OPTIONAL,
HS-DSCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHProvidedBitRateValue ::= INTEGER(0..16777215,...)
-- Unit bit/s, Range 0..2^24-1, Step 1 bit
HS-DSCHProvidedBitRateValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-
DSCHProvidedBitRateValueInformation-For-CellPortion-Item
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item ::= SEOUENCE
    cellPortionID
                                    CellPortionID,
   hS-DSCHProvidedBitRateValue
                                    HS-DSCHProvidedBitRate,
    iE-Extensions
                                    ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} } OPTIONAL,
    . . .
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
HS-DSCHRequiredPower ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHRequiredPower-Item
HS-DSCHRequiredPower-Item ::= SEQUENCE {
    schedulingPriorityIndicator
                                            SchedulingPriorityIndicator,
    hS-DSCHRequiredPowerValue
                                            HS-DSCHRequiredPowerValue,
    hS-DSCHRequiredPowerPerUEInformation
                                            HS-DSCHRequiredPowerPerUEInformation
                                                                                                                       OPTIONAL,
                                            ProtocolExtensionContainer { { HS-DSCHRequiredPower-Item-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
HS-DSCHRequiredPower-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-DSCHRequiredPowerValue ::= INTEGER(0..1000)
-- Unit %, Range 0 ..1000, Step 0.1%
HS-DSCHRequiredPowerPerUEInformation ::= SEQUENCE (SIZE (1.. maxNrOfContextsOnUeList)) OF HS-DSCHRequiredPowerPerUEInformation-Item
HS-DSCHRequiredPowerPerUEInformation-Item ::= SEQUENCE {
    cRNC-CommunicationContextID
                                            CRNC-CommunicationContextID,
    hS-DSCHRequiredPowerPerUEWeight
                                            HS-DSCHRequiredPowerPerUEWeight
                                                                                OPTIONAL,
    iE-Extensions
                                            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,
                                ProtocolExtensionContainer { { HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs} }
    iE-Extensions
                                                                                                                                      OPTIONAL,
HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs 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 COI 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 CRITICALITY ignore
                                                         EXTENSION
                                                                     HARO-Preamble-Mode 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
                                                                         TDD-TPC-UplinkStepSize-LCR PRESENCE optional }, -- Applicable to 1.28Mcps
                                    CRITICALITY ignore
                                                             EXTENSION
TDD only
    . . .
HSDSCH-Information-to-Modify ::= SEOUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    priorityQueueInfotoModify
                                                     PriorityQueue-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    mAChs-Reordering-Buffer-Size-for-RLC-UM
                                                     MAChsReorderingBufferSize-for-RLC-UM
                                                                                                                      OPTIONAL,
    cgiFeedback-CycleK
                                                     COI-Feedback-Cycle
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    cgiRepetitionFactor
                                                     COI-RepetitionFactor
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
                                                     AckNack-RepetitionFactor
                                                                                                                                 -- For FDD only
    ackNackRepetitionFactor
                                                                                                                      OPTIONAL,
                                                     COI-Power-Offset
    cqiPowerOffset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    ackPowerOffset
                                                     Ack-Power-Offset
                                                                                                                      OPTIONAL, -- For FDD only
    nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                                      OPTIONAL, -- For FDD only
    hsscch-PowerOffset
                                                     HSSCCH-PowerOffset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    measurement-Power-Offset
                                                     Measurement-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    hSSCCHCodeChangeGrant
                                                     HSSCCH-Code-Change-Grant
                                                                                                                      OPTIONAL,
                                                                                                                      OPTIONAL, -- For TDD only
    tDDAckNackPowerOffset
                                                     TDD-AckNack-Power-Offset
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs} } 
                                                                                                                              OPTIONAL,
    . . .
HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HARQ-Preamble-Mode CRITICALITY ignore
                                                         EXTENSION
                                                                     HARQ-Preamble-Mode PRESENCE optional }
```

```
PRESENCE optional \ -- Applicable to 1.28Mcps TDD only
      ID id-HSSICH-SIRTarget
                                CRITICALITY ignore
                                                                    UL-SIR
                                                         EXTENSION
      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
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} }
                                                                                                                                 OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Information-to-Modify-Unsynchronised ::= SEOUENCE
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                     OPTIONAL,
    priorityOueueInfotoModifyUnsynchronised
                                                     PriorityOueue-InfoList-to-Modify-Unsynchronised
                                                                                                                     OPTIONAL,
    cgiPowerOffset
                                                     COI-Power-Offset
                                                                                                                     OPTIONAL,
                                                                                                                                 -- For FDD only
    ackPowerOffset
                                                    Ack-Power-Offset
                                                                                                                     OPTIONAL,
                                                                                                                                 -- For FDD only
    nackPowerOffset
                                                    Nack-Power-Offset
                                                                                                                     OPTIONAL,
                                                                                                                                -- For FDD only
                                                    HSSCCH-PowerOffset
    hsscch-PowerOffset
                                                                                                                     OPTIONAL, -- For FDD only
    tDDAckNackPowerOffset
                                                    TDD-AckNack-Power-Offset
                                                                                                                     OPTIONAL,
                                                                                                                                 -- For TDD only
                                                     ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs} }
    iE-Extensions
    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
                                                                                                             -- Applicable to 1.28Mcps TDD only
                                                         EXTENSION
                                                                    UL-SIR
                                                                                         PRESENCE optional }
      ID id-ueCapability-Info
                                    CRITICALITY ignore
                                                             EXTENSION
                                                                         UE-Capability-Information
                                                                                                                     PRESENCE optional |
                                    CRITICALITY ignore
     ID id-HSSICH-TPC-StepSize
                                                                                                                     PRESENCE optional },
                                                             EXTENSION
                                                                       TDD-TPC-UplinkStepSize-LCR
     -- Applicable to 1.28Mcps TDD only
    . . .
HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp
                                                     HSDSCH-MACdFlow-Specific-InformationResp
                                                                                                                                    OPTIONAL,
    hsSCCH-Specific-Information-ResponseFDD
                                                     HSSCCH-Specific-InformationRespListFDD
                                                                                                                                    OPTIONAL,
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                                                    OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
HSDSCH-FDD-Information-Response-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
ID id-HARQ-Preamble-Mode-Activation-Indicator
                                                        CRITICALITY ignore EXTENSION HARQ-Preamble-Mode-Activation-Indicator PRESENCE optional },
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
    hsSCCH-Specific-Information-ResponseTDDLCR
                                                     HSSCCH-Specific-InformationRespListTDDLCR
                                                                                                 OPTIONAL, -- Not Applicable to 3.84Mcps TDD
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                 OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
HSDSCH-TDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InformationResp-Item
HSDSCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    hsDSCHMacdFlow-Id
                                                     HSDSCH-MACdFlow-ID,
    bindingID
                                                     BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                 OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                     HSDSCH-Initial-Capacity-Allocation OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-MACdFlows-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info
                                                    HSDSCH-MACdFlow-Specific-InfoList,
   priorityQueue-Info
                                                    PriorityQueue-InfoList,
   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 ::= SEOUENCE {
    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 ::= {
HSDSCH-MACdFlows-to-Delete ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlows-to-Delete-Item
HSDSCH-MACdFlows-to-Delete-Item ::= SEOUENCE {
    hsDSCH-MACdFlow-ID
                                       HSDSCH-MACdFlow-ID,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlows-to-Delete-Item-ExtIEs} }
    iE-Extensions
                                                                                                                      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,
    maximum-MACdPDU-Size
                                   MACdPDU-Size,
    hSDSCH-InitialWindowSize
                                   HSDSCH-InitialWindowSize,
    iE-Extensions
                                   ProtocolExtensionContainer { { HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } } OPTIONAL,
HSDSCH-Initial-Capacity-AllocationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
    iE-Extensions
                                                ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs } }
    OPTIONAL,
HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-Info ::= SEQUENCE {
   hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
   midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                    TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL.
HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSSICH-InfoLCR ::= SEQUENCE {
   hsSICH-ID
                                                     HS-SICH-ID,
    timeslotLCR
                                                    TimeSlotLCR,
   midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                     OPTIONAL,
HSSICH-Info-LCR-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-Ouality-Value-ExtIEs} } OPTIONAL,
    iE-Extensions
HS-SICH-Reception-Quality-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-failed-HS-SICH
                                            CRITICALITY reject
                                                                        EXTENSION HS-SICH-failed
                                                                                                        PRESENCE optional }
    -- Mandatory for 1.28Mcps TDD when there are more than 20 failed HS-SICH
    {ID id-Additional-missed-HS-SICH
                                                                                                        PRESENCE optional } |
                                            CRITICALITY reject
                                                                        EXTENSION HS-SICH-missed
    -- Mandatory for 1.28Mcps TDD when there are more than 20 missed HS-SICH
    {ID id-Additional-total-HS-SICH
                                           CRITICALITY reject
                                                                        EXTENSION HS-SICH-total
                                                                                                        PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD 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-ExtIEs 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
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,
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-DSCH-Serving-Cell-Change-Info-ExtIEs} }
                                                                                                                     OPTIONAL,
HS-DSCH-Serving-Cell-Change-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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 ::= {
```

```
HS-serving-cell-change-unsuccessful ::= SEQUENCE {
                                   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
                                                  COI-Feedback-Cycle
                                                                                             OPTIONAL,
    cqiRepetitionFactor
                                                  CQI-RepetitionFactor
                                                                                             OPTIONAL,
    ackNackRepetitionFactor
                                                  AckNack-RepetitionFactor
                                                                                             OPTIONAL,
                                                  COI-Power-Offset
    cqiPowerOffset
                                                                                             OPTIONAL,
    ackPowerOffset
                                                  Ack-Power-Offset
                                                                                             OPTIONAL,
                                                  Nack-Power-Offset
    nackPowerOffset
                                                                                             OPTIONAL,
                                                  ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
HSDSCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-TDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator
                                                  HSSCCH-CodeChangeIndicator
                                                                                             OPTIONAL,
    tDDAckNackPowerOffset
                                                  TDD-AckNack-Power-Offset
                                                                                             OPTIONAL,
                                                  ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
HSDSCH-TDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
  ______
-- ------
IB-OC-ID ::= INTEGER (1..16)
IB-SG-DATA ::= BIT STRING
-- Contains SIB data fixed" or "SIB data variable" in segment as encoded in ref.[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,
    sIB8,
    sIB9,
    sIB10,
    sIB11,
    sIB12,
    sIB13,
    sIB13dot1,
    sIB13dot2,
    sIB13dot3,
    sIB13dot4,
    sIB14,
    sIB15,
    sIB15dot1,
    sIB15dot2,
    sIB15dot3,
    sIB16,
    sIB17,
    sIB15dot4,
    sIB18,
    sIB15dot5,
    sIB5bis,
    sIB11bis
InformationReportCharacteristics ::= CHOICE {
    onDemand
    periodic
                             InformationReportCharacteristicsType-ReportPeriodicity,
    onModification
                             InformationReportCharacteristicsType-OnModification,
InformationReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
                        ReportPeriodicity-Scaledmin,
    min
    hours
                         ReportPeriodicity-Scaledhour,
    . . .
InformationReportCharacteristicsType-OnModification ::= SEQUENCE {
    information-thresholds
                                   InformationThresholds
                                                              OPTIONAL,
    ie-Extensions
                                   ProtocolExtensionContainer { { InformationReportCharacteristicsType-OnModification-ExtIEs} } OPTIONAL,
   . . .
```

```
InformationReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
InformationThresholds ::= CHOICE {
                       DGPSThresholds,
    . . .
InformationExchangeID ::= INTEGER (0..1048575)
InformationType ::= SEQUENCE {
    information-Type-Item
                                Information-Type-Item,
    qPSInformation
                                GPS-Information 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 ::= {
Information-Type-Item ::= ENUMERATED {
    gpsinformation,
    dgpscorrections,
    gpsrxpos,
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},
                                   INTEGER (0..63).
   seed
   burst.ModeParams
                                   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
                                   BurstModeParams
                                                      OPTIONAL,
                           ProtocolExtensionContainer { { IPDLTDDParameter-ExtIEs} }
   iE-Extensions
                                                                                     OPTIONAL.
    . . .
IPDL-TDD-Parameters-LCR ::= SEOUENCE {
                                   ENUMERATED { sp30, sp40, sp50, sp70, sp100, ... },
   iP-SpacingTDD
   iP-Start
                                   INTEGER (0..4095),
                                   ENUMERATED{first, second, both},
   iP-Sub
                                   BurstModeParams
                                                      OPTIONAL,
   burstModeParams
                           ProtocolExtensionContainer { { IPDLTDDParameterLCR-ExtIEs} }
   iE-Extensions
                                                                                         OPTIONAL,
BurstModeParams ::= SEOUENCE {
   burstStart
                                      INTEGER(0..15),
   burstLength
                                      INTEGER (10..25),
                                      INTEGER(1..16),
   burstFreq
IPDLTDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
IPDLTDDParameterLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ ______
-- -----
```

```
__ ______
-- -----
LimitedPowerIncrease ::= ENUMERATED {
   used,
   not-used
Local-Cell-ID ::= INTEGER (0..268435455)
LCRTDD-Uplink-Physical-Channel-Capability ::= SEQUENCE {
   maxTimeslotsPerSubFrame
                                    INTEGER(1..6),
   maxPhysChPerTimeslot
                                    ENUMERATED {one, two,...},
   iE-Extensions
                                    ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs} } OPTIONAL,
LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- -----
MACdPDU-Size ::= INTEGER (1..5000,...)
MACdPDU-Size-Indexlist ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-Size-IndexItem
MACdPDU-Size-IndexItem ::= SEQUENCE {
   sID
   macdPDU-Size
                                    MACdPDU-Size,
                                    ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-ExtIEs} }
   iE-Extensions
                                                                                                             OPTIONAL,
MACdPDU-Size-IndexItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MACdPDU-Size-Indexlist-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-Size-IndexItem-to-Modify
MACdPDU-Size-IndexItem-to-Modify ::= SEQUENCE {
   sID
                                    SID,
   macdPDU-Size
                                    MACdPDU-Size,
   iE-Extensions
                                    ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-to-Modify-ExtIEs} }
                                                                                                             OPTIONAL,
MACdPDU-Size-IndexItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
MACesGuaranteedBitRate ::= INTEGER (0..16777215,...)
MACeReset-Indicator ::= ENUMERATED {mACeReset}
MAChsGuaranteedBitRate ::= INTEGER (0..16777215,...)
MAChsReorderingBufferSize-for-RLC-UM ::= INTEGER (0..300,...)
-- Unit kBytes
                        ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,...}
MAC-hsWindowSize
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)
MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
MaxNrOfUL-DPDCHs ::= INTEGER (1..6)
MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    . . .
Max-Set-E-DPDCHs ::= ENUMERATED {
    vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,
-- Values related to [8]
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
                                                     OPTIONAL,
                              RepetitionNumber1
       iE-Extensions
                              ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
MessageStructure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MICH-CFN ::= INTEGER (0..4095)
MICH-Mode ::= ENUMERATED {
   v18,
   v36,
   v72,
   v144,
    . . .
                              ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}
MidambleConfigurationLCR ::=
MidambleConfigurationBurstType1And3 ::=
                                          ENUMERATED {v4, v8, v16}
MidambleConfigurationBurstType2 ::=
                                      ENUMERATED {v3, v6}
MidambleShiftAndBurstType ::=
                                  CHOICE {
                                      SEQUENCE {
       midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
       midambleAllocationMode
                                          CHOICE
           defaultMidamble
                                             NULL,
           commonMidamble
                                             NULL,
           ueSpecificMidamble
                                             MidambleShiftLong,
    . . .
   type2
                                      SEQUENCE {
       midambleConfigurationBurstType2
                                          MidambleConfigurationBurstType2,
       midambleAllocationMode
                                          CHOICE +
           defaultMidamble
                                             NULL,
           commonMidamble
                                             NULL,
                                             MidambleShiftShort,
           ueSpecificMidamble
       . . .
                                      SEOUENCE
       midambleAllocationMode
                                          CHOICE {
           defaultMidamble
           ueSpecificMidamble
                                             MidambleShiftLong,
       },
       . . .
```

```
MidambleShiftLong ::=
                                    INTEGER (0..15)
MidambleShiftShort ::=
                                    INTEGER (0..5)
MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode
                                MidambleAllocationMode,
                                MidambleShiftLong
    midambleShift
                                                        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 ::= {
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,
                                PriorityQueue-Id,
    deletePriorityQueue
Modulation ::= ENUMERATED {
    qPSK,
```

```
eightPSK,
MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    . . .
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
  _____
-- ------
Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
NCyclesPerSFNperiod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    . . . ,
    v16,
   v32,
    v64
NRepetitionsPerCyclePeriod ::= INTEGER (2..10)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
       CHOICE {
               neighbouringFDDCellMeasurementInformation
                                                              NeighbouringFDDCellMeasurementInformation, -- FDD only
                                                              NeighbouringTDDCellMeasurementInformation,
               {\tt neighbouringTDDCellMeasurementInformation}
               -- Applicable to 3.84Mcps TDD only
               {\tt extension-neighbouringCellMeasurementInformation}
                                                                  {\tt Extension-neighbouring Cell Measurement Information}
Extension-neighbouringCellMeasurementInformation
                                                ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
```

```
Extension-neighbouringCellMeasurementInformationIE NBAP-PROTOCOL-IES ::= {
    mandatory }, -- Applicable to 1.28Mcps TDD only
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
   uC-Id
   uARFCN
                                    UARFCN,
                                    PrimaryScramblingCode,
   primaryScramblingCode
                                    ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
   iE-Extensions
NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
   uC-Id
                                    UC-Id,
   11ARFCN
                                    UARFCN,
   cellParameterID
                                    CellParameterID,
   timeSlot
                                    TimeSlot
                                                                  OPTIONAL,
   midambleShiftAndBurstType
                                    MidambleShiftAndBurstType
                                                                  OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
    . . .
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 ::= {
NI-Information ::= SEQUENCE (SIZE (1..maxNrOfNIs)) OF Notification-Indicator
Notification-Indicator ::= INTEGER (0..65535)
```

```
NodeB-CommunicationContextID ::= INTEGER (0..1048575)
NotificationIndicatorLength ::= ENUMERATED {
   v4,
   v8,
NumberOfReportedCellPortions ::= INTEGER (1..maxNrOfCellPortionsPerCell,...)
NSubCyclesPerCyclePeriod ::= INTEGER (1..16,...)
-- -----
-- -----
-- -----
-- -----
PagingIndicatorLength ::= ENUMERATED {
   v4,
   v8,
   . . .
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)
PDSCHSet-ID ::= INTEGER (0..255)
PICH-Mode ::= ENUMERATED {
   v18,
   v36,
   v72,
   v144,
PICH-Power ::= INTEGER (-10..5)
```

```
-- Unit dB, Range -10dB .. +5dB, Step +1dB
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +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,
   two,
   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
PriorityOueue-Id ::= INTEGER (0..maxNrOfPriorityOueues-1)
PriorityQueue-InfoList ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem
PriorityQueue-InfoItem ::= 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,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-ExtIEs} }
                                                                                                                       OPTIONAL,
PriorityQueue-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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 { { PriorityQueue-InfoItem-to-Add-ExtIEs} }
    iE-Extensions
                                                                                                                     OPTIONAL,
PriorityOueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityOueue-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,
    . . .
PriorityQueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityQueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
    priorityQueueId
                                        PriorityQueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                                                                       OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                                       OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                                       OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs} }
                                                                                                                                       OPTIONAL,
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-RSCP ::= INTEGER (0..91)
-- Mapping of non-negative values according to [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
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-SlotFormat ::= ENUMERATED {
   νO,
   v1,
   v2,
   v3,
RACH-SubChannelNumbers ::= BIT STRING {
                                  subCh11(0),
                                  subCh10(1),
                                  subCh9(2),
                                  subCh8(3),
                                  subCh7(4),
                                  subCh6(5),
                                  subCh5(6),
                                  subCh4(7),
                                  subCh3(8),
                                  subCh2(9),
                                  subCh1(10),
                                  subCh0(11)
                                  } (SIZE (12))
RL-Specific-DCH-Info ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF RL-Specific-DCH-Info-Item
RL-Specific-DCH-Info-Item ::= SEQUENCE {
   dCH-id
                       DCH-ID,
   bindingID
                       BindingID
```

OPTIONAL,

```
transportlayeraddress TransportLayerAddress
                                                                                                 OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs} } OPTIONAL,
RL-Specific-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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,
                            ProtocolExtensionContainer { { RL-Specific-E-DCH-Info-Item-ExtIEs} } OPTIONAL,
    iE-Extensions
RL-Specific-E-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
RL-Specific-E-DCH-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF RL-Specific-E-DCH-Information-Item
RL-Specific-E-DCH-Information-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                            E-DCH-MACdFlow-ID,
    bindingID
                            BindingID
                                                                        OPTIONAL,
    transportlayeraddress TransportLayerAddress
                                                                        OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-E-DCH-Information-Item-ExtIEs} } OPTIONAL,
    . . .
RL-Specific-E-DCH-Information-Item-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]
ReferenceClockAvailability ::= ENUMERATED {
    available.
    notAvailable
ReferenceSFNoffset ::= INTEGER (0..255)
Reference-E-TFCI-Information ::= SEQUENCE (SIZE (1..maxNrOfRefETFCIs)) OF Reference-E-TFCI-Information-Item
Reference-E-TFCI-Information-Item ::= SEQUENCE {
    reference-E-TFCI
                                    E-TFCI,
```

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```
reference-E-TFCI-PO
                                     Reference-E-TFCI-PO,
    iE-Extensions
                                     ProtocolExtensionContainer { { Reference-E-TFCI-Information-Item-ExtIEs} }
                                                                                                                      OPTIONAL,
Reference-E-TFCI-Information-Item-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
Reference-E-TFCI-PO ::= INTEGER (0.. maxNrOfRefETFCI-PO-QUANTSTEPs)
    -- FFS according to mapping in [21]
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.
                        ReportCharacteristicsType-ReportPeriodicity,
    periodic
    event-a
                        ReportCharacteristicsType-EventA,
    event-b
                        ReportCharacteristicsType-EventB,
    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 ::= {
    \{ ID id-ReportCharacteristicsType-OnModification \;\; CRITICALITY reject TYPE ReportCharacteristicsType-OnModification \;\; PRESENCE mandatory \}
ReportCharacteristicsType-EventA ::= SEQUENCE {
    measurementThreshold
                                     ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime
                                     ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                                         OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-ExtIEs} }
                                                                                                                         OPTIONAL,
```

```
ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventB ::= SEQUENCE {
   measurementThreshold
                                   ReportCharacteristicsType-MeasurementThreshold,
                                   ReportCharacteristicsType-ScaledMeasurementHysteresisTime
   measurementHysteresisTime
                                                                                                                   OPTIONAL,
   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,
                                   ReportCharacteristicsType-ScaledMeasurementHysteresisTime
   measurementHysteresisTime
                                                                                             OPTIONAL,
   reportPeriodicity
                                   ReportCharacteristicsType-ReportPeriodicity
                                                                                             OPTIONAL,
                                   ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs} }
   iE-Extensions
                                                                                                                   OPTIONAL,
ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventF ::= SEQUENCE {
```

```
measurementThreshold1
                                   ReportCharacteristicsType-MeasurementThreshold,
    measurement.Threshold2
                                   ReportCharacteristicsType-MeasurementThreshold
                                                                                              OPTIONAL.
    measurementHysteresisTime
                                   ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                              OPTIONAL.
    reportPeriodicity
                                   ReportCharacteristicsType-ReportPeriodicity
                                                                                              OPTIONAL,
    iE-Extensions
                                   OPTIONAL.
ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-OnModification ::= SEQUENCE
    measurement.Threshold
                                   ReportCharacteristicsType-MeasurementThreshold,
    iE-Extensions
                                   ProtocolExtensionContainer { { ReportCharacteristicsType-OnModification-ExtIEs} }
                                                                                                                       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-Value,
    transmitted-carrier-power
    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
                                   Transmitted-Code-Power-Value-IncrDecrThres,
                                   RSCP-Value-IncrDecrThres,
    rscp
    round-trip-time
                                   Round-Trip-Time-IncrDecrThres,
    notUsed-1-acknowledged-PCPCH-access-preambles
                                                       NULL,
    notUsed-2-detected-PCPCH-access-preambles
                                                       NULL,
    extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold
                                                                                  Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThreshold
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold
                                                                          ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::=
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission
                                                                          CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory
 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
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion
                                                                                                                 CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                   PRESENCE mandatory } |
 ID id-UpPTSInterferenceValue
                                   CRITICALITY reject TYPE
                                                              UpPTSInterferenceValue
                                                                                          PRESENCE mandatory }
ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
```

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```
received-total-wide-band-power
                                                          Received-total-wide-band-power-Value,
    transmitted-carrier-power
                                   Transmitted-Carrier-Power-Value.
    acknowledged-prach-preambles
                                          Acknowledged-PRACH-preambles-Value.
    uL-TimeslotISCP
                                   UL-TimeslotISCP-Value.
    sir
                               SIR-Value.
   sir-error
                               SIR-Error-Value,
    transmitted-code-power
                                   Transmitted-Code-Power-Value,
                                   RSCP-Value,
    rx-timing-deviation
                                   Rx-Timing-Deviation-Value,
    round-trip-time
                                   Round-Trip-Time-Value,
    notUsed-1-acknowledged-PCPCH-access-preambles
    notUsed-2-detected-PCPCH-access-preambles
                                                      NULL,
    extension-ReportCharacteristicsType-MeasurementThreshold
                                                                  Extension-ReportCharacteristicsType-MeasurementThreshold
Extension-ReportCharacteristicsType-MeasurementThreshold
                                                          ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementThresholdIE }}
Extension-ReportCharacteristicsType-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {
     ID id-TUTRANGPSMeasurementThresholdInformation
                                                      CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation
                                                                                                                         PRESENCE mandatory
     ID id-SFNSFNMeasurementThresholdInformation
                                                      CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation
                                                                                                                         PRESENCE mandatory }
     ID id-Rx-Timing-Deviation-Value-LCR
                                                      CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                                         PRESENCE mandatory }
     ID id-HS-SICH-Reception-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
     PRESENCE mandatory
     ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value
                                                                                                                         PRESENCE mandatory }
     ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion
                                                                                                                    CRITICALITY reject TYPE
{\tt 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-Additional-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value
    PRESENCE mandatory }
    -- Applicable to 1.28Mcps TDD only, used when the Measurement Threshold Value for HS-SICH Reception Quality are more than 20, Measurement
Threshold Value = 20 + IE Value
ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE
                       MeasurementChangeTime-Scaledmsec.
   msec
MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
                       MeasurementHysteresisTime-Scaledmsec,
    msec
```

```
MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
                        ReportPeriodicity-Scaledmsec,
                        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 ::= SEQUENCE (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,
    iE-Extensions
                                            ProtocolExtensionContainer { Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIEs} }
    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)
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 {
    dqps-corrections
                            DGPSCorrections
                                                                                             OPTIONAL,
                            GPS-NavigationModel-and-TimeRecovery
    qps-navandrecovery
                                                                                                 OPTIONAL,
    gps-ionos-model
                            GPS-Ionospheric-Model
                                                                                                 OPTIONAL,
    qps-utc-model
                            GPS-UTC-Model
                                                                                             OPTIONAL,
    gps-almanac
                            GPS-Almanac
                                                                                             OPTIONAL,
    gps-rt-integrity
                            GPS-RealTime-Integrity
                                                                                             OPTIONAL,
    gpsrxpos
                            GPS-RX-POS
                                                                                             OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { RequestedDataValue-ExtIEs} }
                                                                                             OPTIONAL,
RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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]
-- -----
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,
   qps-e-alm
                     BIT STRING (SIZE (16)),
   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)),
   qps-a-sqrt-alm
                     BIT STRING (SIZE (24)),
   omegazero-alm
                     BIT STRING (SIZE (24)),
   m-zero-alm
                     BIT STRING (SIZE (24)),
   qps-omega-alm
                     BIT STRING (SIZE (24)),
   qps-af-zero-alm
                     BIT STRING (SIZE (11)),
   gps-af-one-alm
                     BIT STRING (SIZE (11)),
                      ProtocolExtensionContainer { { SAT-Info-Almanac-Item-ExtIEs} }
   ie-Extensions
                                                                                        OPTIONAL,
   -- This GPS-Almanac-Information is for the 1st 16 satellites
SAT-Info-Almanac-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SAT-Info-Almanac-ExtList
                          ::= SEQUENCE (SIZE (1...maxNrOfSatAlmanac-maxNoSat)) OF SAT-Info-Almanac-ExtItem
SAT-Info-Almanac-ExtItem ::= SEQUENCE {
   data-id
                     DATA-ID,
    sat-id
                      SAT-ID,
   qps-e-alm
                     BIT STRING (SIZE (16)),
   qps-toa-alm
                     BIT STRING (SIZE (8)),
                     BIT STRING (SIZE (16)),
   gps-delta-I-alm
   omegadot-alm
                     BIT STRING (SIZE (16)),
   svhealth-alm
                     BIT STRING (SIZE (8)),
   qps-a-sqrt-alm
                     BIT STRING (SIZE (24)),
    omegazero-alm
                     BIT STRING (SIZE (24)),
   m-zero-alm
                     BIT STRING (SIZE (24)),
   qps-omega-alm
                     BIT STRING (SIZE (24)),
   gps-af-zero-alm BIT STRING (SIZE (11)),
```

```
qps-af-one-alm
                    BIT STRING (SIZE (11)),
   ie-Extensions
                    OPTIONAL,
} -- Includes the GPS-Almanac-Information for 17<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-daps
                                       BIT STRING (SIZE (8)),
   udre
                                       UDRE,
   range-correction-rate
                                       Range-Correction-Rate,
                                       ProtocolExtensionContainer { { SAT-Info-DGPSCorrections-Item-ExtIEs} } OPTIONAL,
   ie-Extensions
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,...)
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)
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,
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs} }
                                                                                                                          OPTIONAL.
SFNSFNMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFNSFNMeasurementValueInformation ::= SEQUENCE {
    {\tt successfull Neighbouring Cell SFNSFNObserved Time Difference Measurement Information}
                                                                                          SEOUENCE (SIZE(1..maxNrOfMeasNCell)) OF
        SEOUENCE {
            uC-Id
                                         UC-Id,
            sFNSFNValue
                                         SFNSFNValue,
            sFNSFNQuality
                                         SFNSFNQuality
                                                                      OPTIONAL,
            sFNSFNDriftRate
                                         SFNSFNDriftRate,
            sFNSFNDriftRateQuality
                                         SFNSFNDriftRateQuality
                                                                      OPTIONAL,
            sFNSFNTimeStampInformation SFNSFNTimeStampInformation,
            iE-Extensions
                                 ProtocolExtensionContainer { { SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs } }
                OPTIONAL.
    unsuccessfull \verb+NeighbouringCellSFNSFNObservedTimeDifference \texttt{MeasurementInformation}
                                                                                          SEOUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEOUENCE {
            nC-Td
            iE-Extensions
                                 ProtocolExtensionContainer { { UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs } }
                OPTIONAL,
                        ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs} }
    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
                        SFN,
    timeSlot
                        TimeSlot,
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} }
                                                                                                                      OPTIONAL,
SFNSFNTimeStamp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFNSFNValue ::= CHOICE {
    sFNSFN-FDD
                    SFNSFN-FDD,
    sFNSFN-TDD
                    SFNSFN-TDD,
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}
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'.
    iE-Extensions
                                                ProtocolExtensionContainer { { SynchronisationReportCharacteristics-ExtIEs } } OPTIONAL,
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,
                                ProtocolExtensionContainer { { SynchronisationReportCharactThreInfoItem-ExtIEs } }
    iE-Extensions
SynchronisationReportCharactThreInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SynchronisationReportCharactCellSyncBurstInfoItem ::= SEQUENCE
    cellSyncBurstCode
                                    CellSyncBurstCode,
                                    CellSyncBurstCodeShift,
    cellSyncBurstCodeShift
    cellSyncBurstTiming
                                    CellSyncBurstTiming
                                                                    OPTIONAL,
                                                                    OPTIONAL,
    cellSyncBurstTimingThreshold
                                    CellSyncBurstTimingThreshold
    iE-Extensions
                                    ProtocolExtensionContainer { { SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
SyncDLCodeIdThreInfoLCR ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdThreInfoList --Mandatory for 1.28Mcps TDD only. Not
Applicable to 3.84Mcps TDD.
SyncDLCodeIdThreInfoList ::= SEQUENCE {
    syncFrameNoToReceive
                                   SyncFrameNumber,
    syncDLCodeIdInfoLCR
                                    SyncDLCodeInfoListLCR,
    iE-Extensions
                                   ProtocolExtensionContainer { { SyncDLCodeIdThreInfoList-ExtIEs } }
                                                                                                          OPTIONAL,
    . . .
SyncDLCodeIdThreInfoList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeInfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfSyncDLCodesLCR)) OF SyncDLCodeInfoItemLCR
SyncDLCodeInfoItemLCR ::= SEQUENCE {
    syncDLCodeId
                                    SYNCDlCodeId,
    syncDLCodeIdArrivTime
                                   CellSyncBurstTimingLCR
                                                                       OPTIONAL,
                                   CellSyncBurstTimingThreshold
    syncDLCodeIdTimingThre
                                                                       OPTIONAL,
                                    ProtocolExtensionContainer { { SyncDLCodeInfoItem-LCR-ExtIEs } }
    iE-Extensions
                                                                                                       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, ...}
T-Cell ::= ENUMERATED {
```

```
v0,
    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 {
    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,
TDD-ChannelisationCodeLCR ::= SEQUENCE {
```

```
tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
    modulation
                                    Modulation, -- Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD
                                            ProtocolExtensionContainer { { TDD-ChannelisationCodeLCR-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL.
TDD-ChannelisationCodeLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem
TDD-DL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { { TDD-DL-Code-InformationItem-ExtIEs} }
                                                                                                                        OPTIONAL,
TDD-DL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-Code-LCR-Information ::= 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,
                                            ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs} }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
TDD-DL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-DL-DPCH-TimeSlotFormat-LCR ::= CHOICE
                                QPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    aPSK
    eightPSK
                                EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    . . .
QPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
TDD-DPCHOffset ::= CHOICE {
    initialOffset
                        INTEGER (0..255),
    noinitialOffset
                        INTEGER (0..63)
TDD-PhysicalChannelOffset ::= INTEGER (0..63)
```

```
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
TDD-TPC-UplinkStepSize-LCR ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    . . .
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors
                                SEQUENCE {
        gainFactor
                                    CHOICE {
            fdd
                                        SEQUENCE
                                            BetaCD,
                betaC
                betaD
                                            BetaCD,
                                    ProtocolExtensionContainer { { GainFactorFDD-ExtIEs } }
                iE-Extensions
                                                                                                 OPTIONAL,
            tdd
                                        BetaCD,
        refTFCNumber
                                     RefTFCNumber
                                                     OPTIONAL,
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } }
        iE-Extensions
                                                                                                                      OPTIONAL,
                                    RefTFCNumber,
    computedGainFactors
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 ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID.
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    tdd-UL-DPCH-TimeSlotFormat-LCR
                                            TDD-UL-DPCH-TimeSlotFormat-LCR,
                                            ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs} }
    iE-Extensions
                                                                                                                           OPTIONAL,
TDD-UL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TDD-UL-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,
    iE-Extensions
                                ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} }
                                                                                                                      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)
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 {
    {\tt timing Maintained Synchronisation,}
TnlQos ::= CHOICE {
                            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
    SEOUENCE {
        tGPSID
                        TGPSID,
        tGSN
                        TGSN,
        tGL1
                        GapLength,
        tGL2
                        GapLength
                                   OPTIONAL,
        tGD
                        TGD,
        tGPL1
                        GapDuration,
       not-to-be-used-1
                                    GapDuration OPTIONAL,
            -- This IE shall never be included in the SEQUENCE. If received it shall be ignored
       uL-DL-mode
                        UL-DL-mode,
        downlink-Compressed-Mode-Method
                                            Downlink-Compressed-Mode-Method
                                                                                OPTIONAL,
            -- This IE shall be present if the UL/DL mode IE is set to "DL only" or "UL/DL"
       uplink-Compressed-Mode-Method
                                            Uplink-Compressed-Mode-Method
                                                                                OPTIONAL,
           -- This IE shall be present if the UL/DL mode IE is set to "UL only" or "UL/DL"
       dL-FrameTvpe
                            DL-FrameType,
        delta-SIR1
                            DeltaSIR,
        delta-STR-after1
                           DeltaSIR,
        delta-STR2
                           DeltaSIR
                                        OPTIONAL,
        delta-SIR-after2
                           DeltaSIR
                                        OPTIONAL,
                                ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
        iE-Extensions
Transmission-Gap-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
  code-change,
  nocode-change
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue ::= SEQUENCE (SIZE
(1...maxNrOfCellPortionsPerCell)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-
Item
```

```
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOTE-HICHTransmissionCellPortionValue-Item ::= SEQUENCE{
    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-RGCHOTE-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,
                                            ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs} }
    iE-Extensions
    OPTIONAL,
Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Transmitted-Carrier-Power-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
                                                            OPTIONAL,
       -- The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD - or PCPCH channel].
       iE-Extensions
                            ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
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)
TransportBearerRequestIndicator ::= ENUMERATED {
    bearerRequested,
    bearerNotRequested,
    . . .
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
```

```
mode
                                   TransportFormatSet-ModeDP,
       iE-Extensions
                                   ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs} }
                                                                                                                  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
   SEOUENCE {
                                      TransportFormatSet-TransmissionTimeIntervalDynamic,
       transmissionTimeInterval
                                      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,
                                   TransportFormatSet-CRC-Size,
    cRC-Size
                                  TransportFormatSet-ModeSSP
   mode
   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 {
    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
TUTRANGPS ::= SEQUENCE {
   ms-part
               INTEGER (0..16383),
   ls-part
                INTEGER (0..4294967295)
TUTRANGPSChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
TUTRANGPSDriftRate ::= INTEGER (-50..50)
-- Unit chip/s, Step 1/256 chip/s, Range -50/256..+50/256 chip/s
TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
-- Unit chip/s, Step 1/256 chip/s, Range 0..50/256 chip/s
TUTRANGPSAccuracyClass ::= ENUMERATED {
    accuracy-class-A,
    accuracy-class-B,
    accuracy-class-C,
TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit
                                            TUTRANGPSChangeLimit
                                                                                     OPTIONAL,
    predictedTUTRANGPSDeviationLimit
                                            PredictedTUTRANGPSDeviationLimit
                                                                                     OPTIONAL,
                                  ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs} }
                                                                                                                          OPTIONAL,
TUTRANGPSMeasurementThresholdInformation-ExtlEs 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 ::= {
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,...),
                                      ProtocolExtensionContainer { { UE-Capability-Information-ExtIEs } }
    iE-Extensions
                                                                                                             OPTIONAL,
UE-Capability-Information-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
{ID id-LCRTDD-uplink-Physical-Channel-Capability
                                                     CRITICALITY ignore
                                                                            EXTENSION LCRTDD-Uplink-Physical-Channel-Capability
                                                                                                                                 PRESENCE
    optional},
    . . .
UL-CapacityCredit ::= INTEGER (0..65535)
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,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationItem-ExtIEs} }
                                                                                                                        OPTIONAL,
UL-Timeslot-InformationItem-ExtlEs 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
                                                                                                                        OPTIONAL,
UL-TimeslotLCR-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
                                        ProtocolExtensionContainer { { UL-Synchronisation-Parameters-LCR-ExtIEs } }
    iE-Extensions
UL-Synchronisation-Parameters-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Synchronisation-StepSize ::= INTEGER (1..8)
UL-Synchronisation-Frequency ::= INTEGER (1..8)
UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-TimeSlot-ISCP-InfoItem
UL-TimeSlot-ISCP-InfoItem ::= SEOUENCE {
    timeSlot
                                    TimeSlot,
    iscp
                                    UL-TimeslotISCP-Value,
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs} }
    iE-Extensions
                                                                                                                        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 ::= SEQUENCE {
   timeSlotLCR
                                  TimeSlotLCR.
   iscp
                                  UL-TimeslotISCP-Value,
                                  iE-Extensions
                                                                                                                  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 ::= SEOUENCE {
   uSCH-ID
                                          USCH-ID.
   cCTrCH-ID
                                          CCTrCH-ID,
                                                             -- UL CCTrCH in which the USCH is mapped
                                          TransportFormatSet, -- For USCH
   transportFormatSet
    allocationRetentionPriority
                                          AllocationRetentionPriority,
                                          ProtocolExtensionContainer { { USCH-InformationItem-ExtIEs} }
   iE-Extensions
                                                                                                                  OPTIONAL,
USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                                                                                                          optional }|
                                          CRITICALITY ignore
                                                                 EXTENSION
                                                                             BindingID
                                                                                                                PRESENCE
   -- 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
                                                                             TnlOos PRESENCE optional
                                                                 EXTENSION
USCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem
USCH-InformationResponseItem ::= SEQUENCE {
   uSCH-ID
                                              USCH-ID.
   bindingID
                                              BindingID
                                                                     OPTIONAL,
   transportLayerAddress
                                              TransportLayerAddress
                                                                     OPTIONAL,
                                              ProtocolExtensionContainer { { USCH-InformationResponseItem-ExtIEs} } }
   iE-Extensions
                                                                                                                     OPTIONAL,
USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

9.3.5 Common Definitions

END

```
maxProtocolExtensions
                           INTEGER ::= 65535
maxProtocolIEs
                           INTEGER ::= 65535
__ ********************
-- Common Data Types
__ *******************
Criticality
             ::= ENUMERATED { reject, ignore, notify }
MessageDiscriminator ::= ENUMERATED { common, dedicated }
Presence
              ::= ENUMERATED { optional, conditional, mandatory }
PrivateIE-ID ::= CHOICE {
   local
                    INTEGER (0..maxPrivateIEs),
   global
                    OBJECT IDENTIFIER
ProcedureCode ::= INTEGER (0..255)
ProcedureID ::= SEQUENCE {
   procedureCode
                        ProcedureCode,
                        ENUMERATED { tdd, fdd, common, ... }
   ddMode
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

```
TMPORTS
   ProcedureCode.
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
   ******************
-- Elementary Procedures
  ****************
id-audit
                                                       ProcedureCode ::= 0
id-auditRequired
                                                       ProcedureCode ::= 1
id-blockResource
                                                       ProcedureCode ::= 2
id-cellDeletion
                                                       ProcedureCode ··= 3
                                                       ProcedureCode ::= 4
id-cellReconfiguration
                                                       ProcedureCode ::= 5
id-cellSetup
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
id-commonMeasurementTermination
                                                       ProcedureCode ::= 9
id-commonTransportChannelDelete
                                                       ProcedureCode ::= 10
                                                       ProcedureCode ::= 11
id-commonTransportChannelReconfigure
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
                                                       ProcedureCode ::= 42
id-informationExchangeTermination
id-informationReporting
                                                       ProcedureCode ::= 43
id-BearerRearrangement
                                                       ProcedureCode ::= 50
id-mBMSNotificationUpdate
                                                       ProcedureCode ::= 53
id-physicalSharedChannelReconfiguration
                                                      ProcedureCode ::= 37
id-privateMessageForCommon
                                                      ProcedureCode ::= 36
id-privateMessageForDedicated
                                                      ProcedureCode ::= 22
id-radioLinkAddition
                                                       ProcedureCode ::= 23
id-radioLinkDeletion
                                                       ProcedureCode ::= 24
id-radioLinkFailure
                                                       ProcedureCode ::= 25
id-radioLinkPreemption
                                                       ProcedureCode ::= 39
id-radioLinkRestoration
                                                       ProcedureCode ::= 26
                                                       ProcedureCode ::= 27
id-radioLinkSetup
```

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```
id-reset
                                                      ProcedureCode ::= 13
id-resourceStatusIndication
                                                      ProcedureCode ··= 28
                                                      ProcedureCode ::= 44
id-cellSynchronisationAdjustment
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
                           INTEGER ::= 16
maxNrOfRLs
maxNrOfRLs-1
                           INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2
                           INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfRLSets
                           INTEGER ::= maxNrOfRLs
maxNrOfDPCHs
                           INTEGER ::= 240
maxNrOfDPCHsPerRL-1
                           INTEGER ::= 239
                                          -- maxNrofCCTrCH*maxNrOfULTSs-1
                           INTEGER ::= 240
maxNrOfDPCHLCRs
maxNrOfDPCHsLCRPerRL-1
                           INTEGER ::= 95 -- maxNrofCCTrCH*maxNrOfULTSLCRs-1
maxNrOfSCCPCHs
                           INTEGER ::= 8
maxNrOfSCCPCHsinExt
                           INTEGER ::= 232
                           INTEGER ::= 128
maxNrOfDCHs
                           INTEGER ::= 32
maxNrOfDSCHs
maxNrOfFACHs
                           INTEGER ::= 8
                           INTEGER ::= 16
maxNrOfCCTrCHs
maxNrOfPDSCHs
                           INTEGER ::= 256
maxNrOfHSPDSCHs
                           INTEGER ::= 16
                           INTEGER ::= 256
maxNrOfPUSCHs
                           INTEGER ::= 255
maxNrOfPUSCHs-1
maxNrOfPDSCHSets
                           INTEGER ::= 256
                           INTEGER ::= 8
maxNrOfPRACHLCRs
maxNrOfPUSCHSets
                           INTEGER ::= 256
                           INTEGER ::= 8
maxNrOfSCCPCHLCRs
maxNrOfSCCPCHsLCRinExt
                           INTEGER ::= 88
maxNrOfULTSs
                           INTEGER ::= 15
maxNrOfULTSLCRs
                           INTEGER ::= 6
maxNrOfUSCHs
                           INTEGER ::= 32
                           INTEGER ::= 8
maxNrOfSlotFormatsPRACH
maxCellinNodeB
                           INTEGER ::= 256
maxCCPinNodeB
                           INTEGER ::= 256
                           INTEGER ::= 16777215
maxCTFC
```

```
INTEGER ::= maxCellinNodeB
maxLocalCellinNodeB
maxNoofLen
                            INTEGER ::= 7
maxFPACHCell
                            INTEGER ::= 8
maxRACHCell
                            INTEGER ::= maxPRACHCell
maxPRACHCell
                            INTEGER ::= 16
                            INTEGER ::= 32
maxSCCPCHCell
                            INTEGER ::= 208 -- maxNrOfSCCPCHs + maxNrOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExt
                            INTEGER ::= 64 -- maxNrOfSCCPCHLCRs + maxNrOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCCPCHCellinExtLCR
maxSCPICHCell
                            INTEGER ··= 32
                            INTEGER ::= 4
maxTTI-count
maxTBSEG
                            INTEGER ::= 16
maxIB
                            INTEGER ::= 64
                            INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxFACHCell
maxRateMatching
                            INTEGER ::= 256
maxHS-PDSCHCodeNrComp-1
                            INTEGER ::= 15
maxHS-SCCHCodeNrComp-1
                            INTEGER ::= 127
maxNrOfCellSyncBursts
                            INTEGER ::= 10
maxNrOfReceptsPerSyncFrame
                            INTEGER ::= 16
maxNrOfMeasNCell
                            INTEGER ::= 96
maxNrOfMeasNCell-1
                            INTEGER ::= 95 -- maxNrOfMeasNCell - 1
maxNrOfSF
                            INTEGER ::= 8
maxTGPS
                            INTEGER ::= 6
maxCommunicationContext
                            INTEGER ::= 1048575
                            INTEGER ::= 256
maxNrOfLevels
maxNoSat
                            INTEGER ::= 16
maxNoGPSItems
                            INTEGER ::= 8
maxNrOfHSSCCHs
                            INTEGER ::= 32
maxNrOfHSSICHs
                            INTEGER ::= 4
                            INTEGER ::= 3
maxNrOfHSSICHs-1
maxNrOfSyncFramesLCR
                            INTEGER ::= 512
maxNrOfReceptionsperSyncFrameLCR
                                    INTEGER ::= 8
maxNrOfSyncDLCodesLCR
                            INTEGER ::= 32
maxNrOfHSSCCHCodes
                                INTEGER ::= 4
maxNrOfMACdFlows
                                INTEGER ::= 8
maxNrOfMACdFlows-1
                                INTEGER ::= 7
                                                -- maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes
                                INTEGER ::= 8
maxNrOfMACdPDUIndexes-1
                                INTEGER ::= 7
                                                -- maxNoOfMACdPDUIndexes - 1
                                INTEGER ::= 32
maxNrOfMACdPDUSize
                                INTEGER ::= 256
maxNrOfNIs
maxNrOfPriorityQueues
                                INTEGER ::= 8
maxNrOfPriorityQueues-1
                                INTEGER ::= 7
                                                -- maxNoOfPriorityQueues - 1
maxNrOfHAROProcesses
                                INTEGER ::= 8
maxNrOfContextsOnUeList
                                INTEGER ::= 16
maxNrOfCellPortionsPerCell
                                INTEGER ::= 64
                                INTEGER ::= 63
maxNrOfCellPortionsPerCell-1
maxNrOfPriorityClasses
                                INTEGER ::= 16
maxNrOfSatAlmanac-maxNoSat
                                INTEGER ::= 16
                                                -- maxNrofSatAlmanac - maxNoSat
maxNrOfE-AGCHs
                                INTEGER ::= 32
maxNrOfEDCHMACdFlows
                                INTEGER ::= 8
maxNrOfEDCHMACdFlows-1
                                INTEGER ::= 7
maxNrOfE-RGCHs-E-HICHs
                                INTEGER ::= 32
maxNrOfEDCH-HARQ-PO-QUANTSTEPs INTEGER ::= 6
maxNrOfEDCHHAROProcesses2msEDCH INTEGER ::= 8
                                INTEGER ::= 8
maxNrOfEDPCCH-PO-QUANTSTEPs
```

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```
maxNrOfBits-MACe-PDU-non-scheduled INTEGER ::= 19982
maxNrOfRefETECIS
                               INTEGER ··= 8
maxNrOfRefETFCI-PO-OUANTSTEPs INTEGER ::= 29
maxNrofSigSegRGHI-1
                               INTEGER ::= 39
maxNoOfLogicalChannels
                               INTEGER ::= 16
maxNrOfCombEDPDCH
                               INTEGER ::= 12
__ *******************
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-TD ::= 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
```

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-ReconfRqstTDD	ProtocolIE-ID ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 122
id-IndicationType-ResourceStatusInd	ProtocolIE-ID ::= 123
id-Local-Cell-ID	ProtocolIE-ID ::= 124
id-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 2
id-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 3
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 4
id-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 5
id-Local-Cell-InformationItem-AuditRsp	ProtocolIE-ID ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 127
id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128
id-AdjustmentPeriod	ProtocolIE-ID ::= 129
id-MaxAdjustmentStep	ProtocolIE-ID ::= 130
id-MaximumTransmissionPower	ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 132
id-MeasurementID	ProtocolIE-ID ::= 133
id-MessageStructure	ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID ::= 134
id-NodeB-CommunicationContextID	ProtocolIE-ID ::= 143

id-NeighbouringCellMeasurementInformation	ProtocolIE-ID ::= 455
id-P-CCPCH-Information	ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 145
id-P-CPICH-Information	ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 147
id-P-SCH-Information	ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 157
id-PCH-Information	ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 165
id-PICH-Information	ProtocolIE-ID ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 168
id-PowerAdjustmentType	ProtocolIE-ID ::= 169
id-PRACH-Information	ProtocolIE-ID ::= 170
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 180
id-PrimaryScramblingCode	ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 183
id-SCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 189
id-RACH-Information	ProtocolIE-ID ::= 190
id-RACH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 197
id-ReportCharacteristics	ProtocolIE-ID ::= 198
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID ::= 199
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID ::= 200
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID ::= 202
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID ::= 203
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	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-ReconfRqstFDD	ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID ::= 212
id-RL-informationList-RL-DeletionRqst	ProtocolIE-ID ::= 213
-	

id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 237
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 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-SetupRgstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRgstFDD	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 ::= 332
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 334 ProtocolIE-ID ::= 335
id-Not-Used-336	ProtocolIE-ID ::= 336
id-Not-Used-342	ProtocolIE-ID ::= 342
id-Not-Used-343	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357
id-DL-TPC-Pattern01Count	ProtocolIE-ID ::= 358
id-DPC-Mode	ProtocolIE-ID ::= 450
id-DPCHConstant	ProtocolIE-ID ::= 359
id-Unused-ProtocolIE-ID-94	ProtocolIE-ID ::= 94
id-Unused-ProtocolIE-ID-110	ProtocolIE-ID ::= 110

id-Unused-ProtocolIE-ID-111	ProtocolIE-ID ::= 111
id-FACH-ParametersList-CTCH-SetupRsp	ProtocolIE-ID ::= 362
id-Limited-power-increase-information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 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
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD	ProtocolIE-ID ::= 494
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 482
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 423
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 424
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 425
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 427

id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 428
id-CellSyncInfo-CellSyncReprtTDD	ProtocolIE-ID ::= 429
id-CSBTransmissionID	ProtocolIE-ID ::= 430
id-CSBMeasurementID	ProtocolIE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432
id-NCyclesPerSFNperiod	ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434
id-SyncFrameNumber	ProtocolIE-ID ::= 437
id-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-ReconfRgstTDD	ProtocolIE-ID ::= 453
id-IPDLParameter-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 454
id-DL-DPCH-LCR-Information-RL-SetupRgstTDD	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-ReconfRgstTDD	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-ReconfRgstTDD	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 ::= 22
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 311
	
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

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-ReconfRqst	ProtocolIE-ID ::= 488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID ::= 497
id-Power-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 498
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 499
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 500
id-Power-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 501
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 502
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd	ProtocolIE-ID ::= 503
id-Power-Local-Cell-Group-ID	ProtocolIE-ID ::= 504
id-PUSCH-Info-DM-Rgst	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-SetupRqstTDD	ProtocolIE-ID ::= 41
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 42
id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst	ProtocolIE-ID ::= 522
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst	ProtocolIE-ID ::= 523
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 524
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 ::= 528
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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
${ t id ext{-}DelayedActivation ext{Information-RL-ActivationCmdFDD}}$	ProtocolIE-ID ::= 233
id-DelayedActivationList-RL-ActivationCmdTDD	ProtocolIE-ID ::= 234
${ t id ext{-}DelayedActivation ext{Information-RL-ActivationCmdTDD}}$	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
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRgstTDD	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 ProtocolIE-ID ::= 572
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	
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
                                                                     ProtocolIE-ID ::= 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
id-HS-DSCHRequiredPowerValueInformation
                                                                    ProtocolIE-ID ::= 585
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
                                                                     ProtocolIE-ID ::= 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-HARO-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
                                                                     ProtocolTE-ID ::= 706
                                                                     ProtocolIE-ID ::= 707
id-F-DPCH-Capability
id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue
                                                                     ProtocolIE-ID ::= 708
                                                                     ProtocolIE-ID ::= 709
id-HSSICH-SIRTarget
id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp
                                                                     ProtocolIE-ID ::= 710
id-E-DPCH-Information-RL-AdditionRegFDD
                                                                     ProtocolIE-ID ::= 772
id-PDSCH-Timeslot-Format-PSCH-ReconfRgst-LCR
                                                                     ProtocolIE-ID ::= 775
id-PUSCH-Timeslot-Format-PSCH-ReconfRgst-LCR
                                                                     ProtocolIE-ID ::= 780
id-HSDSCH-Configured-Indicator
                                                                     ProtocolIE-ID ::= 783
id-tFCI-Presence
                                                                     ProtocolIE-ID ::= 793
                                                                     ProtocolIE-ID ::= 794
id-HSSICH-TPC-StepSize
id-DCH-Indicator-For-E-DCH-HSDPA-Operation
                                                                     ProtocolIE-ID ::= 822
id-ueCapability-Info
                                                                     ProtocolIE-ID ::= 825
id-LCRTDD-uplink-Physical-Channel-Capability
                                                                     ProtocolIE-ID ::= 872
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
```

END

9.3.7 Container Definitions

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```
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
__ ********************
-- IE parameter types from other modules.
__ **********************
IMPORTS
   maxProtocolExtensions,
   maxPrivateIEs.
   maxProtocolIEs,
   Criticality,
   Presence,
   PrivateIE-ID,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
__ ********************
-- Class Definition for Protocol IEs
__ **********************************
NBAP-PROTOCOL-IES ::= CLASS {
   &id
         ProtocolIE-ID
                            UNIQUE,
   &criticality Criticality,
   &Value,
   &presence
          Presence
WITH SYNTAX {
         &id
   CRITICALITY &criticality
   TYPE
            &Value
   PRESENCE
            &presence
__ ********************
-- Class Definition for Protocol IEs
__ *********************
NBAP-PROTOCOL-IES-PAIR ::= CLASS {
   &id
            ProtocolIE-ID
                               UNIQUE,
   &firstCriticality Criticality,
   &FirstValue,
   &secondCriticality Criticality,
   &SecondValue,
   &presence
               Presence
```

```
WITH SYNTAX {
  ID
            &id
   FIRST CRITICALITY &firstCriticality
   FIRST TYPE &FirstValue
   SECOND CRITICALITY &secondCriticality
   SECOND TYPE
               &SecondValue
   PRESENCE
               &presence
  *****************
-- Class Definition for Protocol Extensions
__ **********************
NBAP-PROTOCOL-EXTENSION ::= CLASS {
        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 &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 {
   id NBAP-PROTOCOL-IES.&id ({IEsSetParam}),
   criticality NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),
         NBAP-PROTOCOL-IES.&Value ({IEsSetParam}{@id})
  ****************
-- Container for Protocol IE Pairs
__ **********************
ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
   SEQUENCE (SIZE (0..maxProtocolIEs)) OF
   ProtocolIE-FieldPair {{IEsSetParam}}
ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IESSetParam} ::= SEQUENCE {
       NBAP-PROTOCOL-IES-PAIR.&id
                                               ({IEsSetParam}),
                       NBAP-PROTOCOL-IES-PAIR.&firstCriticality
   firstCriticality
                                                             ({IEsSetParam}{@id}),
   firstValue NBAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),
   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})
  ****************
-- Container for Private IEs
__ *******************
PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (1..maxPrivateIEs)) OF
   PrivateIE-Field {{IEsSetParam}}
PrivateIE-Field {NBAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {
              NBAP-PRIVATE-IES.&id
   ({IEsSetParam}),
   criticality
                     NBAP-PRIVATE-IES.&criticality
   ({IEsSetParam}{@id}),
   value
             NBAP-PRIVATE-IES.&Value
   ({IEsSetParam}{@id})
END
```

9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [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:

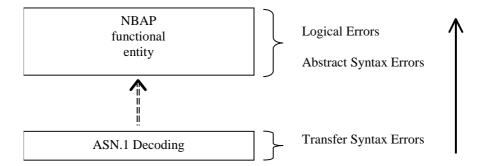


Figure 38: Protocol Errors in NBAP.

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):

Allocation and Pre-emption of Radio Links in the Node B

A.1 Deriving Allocation Information for a Radio Link

A.1.1 Establishment of a New Radio Link

The Allocation Information for a Radio Link in the case of establishment of a new Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node

B or b) a procedure adding or modifying the transport channel.

- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels that are intended to use the Radio Link is set to "no priority", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels that are intended to use the Radio Link is not set to "no priority", the allocation priority and the pre-emption capability of the Radio Link shall be set according to the following:
 - The transport channels that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link.
 - The allocation priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all non excluded transport channels that are intended to use the Radio Link.
 - If all non-excluded transport channels that are intended to use a Radio Link to be established have the 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

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) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more transport channels using the Radio Link is set to "no priority", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all the transport channels using the Radio Link is not set to "no priority", the retention priority of the Radio Link and the pre-emption vulnerability of the Radio Link shall be set according to the following:
 - The retention priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all transport channels that uses the Radio Link.
 - If all transport channels that uses the Radio Link have the pre-emption vulnerability, given by the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE, set to "pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "pre-emptable".

 If one or more transport channels that uses the Radio Link have the value of the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

The derived retention priority and pre-emption vulnerability are valid until they are changed, or until the Radio Link is deleted. When new transport channels are added to or deleted from the Radio Link or when existing transport channels are modified with regards to the *Allocation/Retention Priority* IE, the retention information shall be derived again according to above.

A.3 The Allocation/Retention Process

The Node B shall establish or modify the resources for a Radio Link according to:

- The value of the Allocation Information (allocation priority and pre-emption capability) of the Radio Link to be established or modified. The Allocation Information is derived according to clause A.1.
- The value of the Retention Information (retention priority and pre-emption vulnerability) of existing Radio Links. The Retention Information derived according to clause A.2.
- The resource situation in the cell.

Whilst the process and the extent of the pre-emption functionality is operator dependent, the pre-emption indicators (pre-emption capability and pre-emption vulnerability) shall be treated as follows:

- -. If the pre-emption capability for a Radio Link to be established or modified is set to "may trigger preemption" and the resource situation so requires, the Node B may trigger the pre-emption process in clause A.4 to free resources for this allocation request.
- -. If the pre-emption capability for a Radio Link to be established or modified is set to "shall not trigger pre-emption", then this allocation request shall not trigger the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "pre-emptable", then this Radio Link shall be included in the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "not pre-emptable", then this Radio Link shall not be included in the pre-emption process in clause A.4.

A.4 The Pre-emption Process

The pre-emption process shall only pre-empt Radio Links with lower retention priority than the allocation priority of the Radio Link to be established or modified. The Radio Links to be pre-empted shall be selected in ascending order of the retention priority.

When the pre-emption process detects that one or more Radio Links have to be pre-empted to free resources for a Radio Link(s) to be established or modified, the Node B shall initiate the Radio Link Pre-emption procedure for all the Node B Communication Contexts having Radio Links selected for pre-emption and start the $T_{Preempt}$ 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_{Preempt} timer expires, the Node B shall regard the procedure that triggered the pre-emption process as failed and complete the procedure in accordance with the "Unsuccessful Operation" subclause of the procedure.

Annex B (informative): Measurement Reporting

When the *Report Characteristics* IE is set to "Event A" (figure B.1), the Measurement Reporting procedure is initiated when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

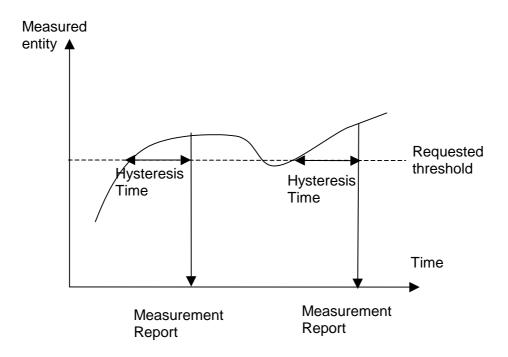


Figure B.1: Event A reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event B" (figure B.2), the Measurement Reporting procedure is initiated when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

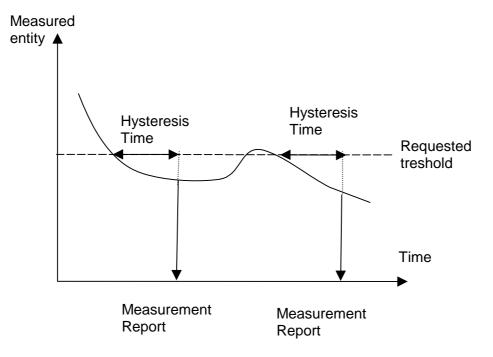


Figure B.2: Event B reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event C" (figure B.3), the Measurement Reporting procedure is initiated always when the measured entity rises by an amount greater than the requested threshold within the requested time. The reporting in figure B.3 is initiated if the Rising Time T1 is less than the requested time.

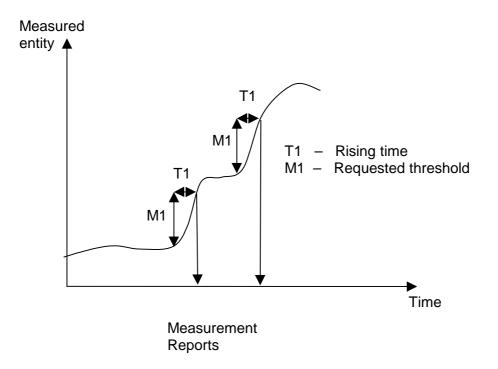


Figure B.3: Event C reporting

When the *Report Characteristics* IE is set to "Event D" (figure B.4), the Measurement Reporting procedure is initiated always when the measured entity falls by an amount greater than the requested threshold within the requested time. The reporting in figure B.4 is initiated if the Falling Time T1 is less than the requested time.

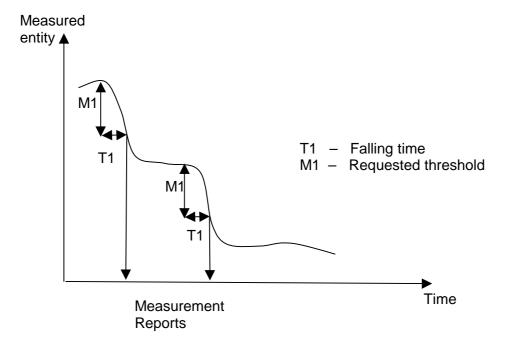


Figure B.4: Event D reporting

When the *Report Characteristics* IE is set to "Event E" (figure B.5), the Measurement Reporting procedure (Report A) is initiated always when the measured entity rises above the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.5). If *Report Periodicity* IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity falls below the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity falls below the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.

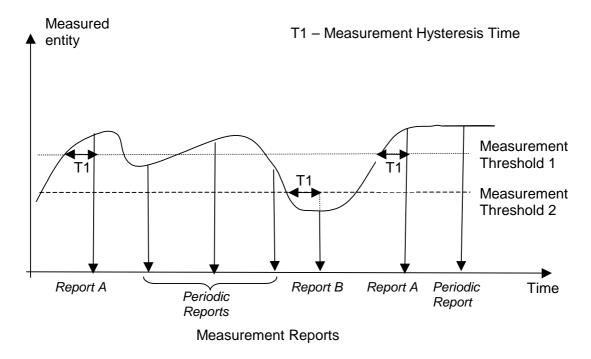
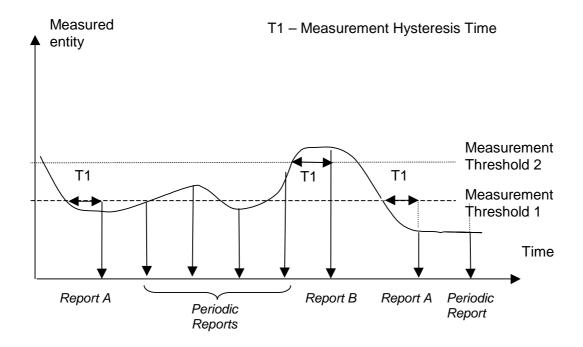


Figure B.5: Event E reporting with Hysteresis Time specified and Periodic Reporting requested

When the *Report Characteristics* IE is set to "Event F" (figure B.6), the Measurement Reporting procedure (Report A) is initiated always when the measured entity falls below the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.6). If *Report Periodicity* IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity rises above the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity rises above the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.



Measurement Reports

Figure B.6: Event F reporting with Hysteresis Time specified and Periodic Reporting requested

Annex C (informative): Guidelines for Usage of the Criticality Diagnostics IE

C.1 EXAMPLE MESSAGE Layout

Assume the following message format:

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
			Referenc			
			е			
Message Type	M				YES	reject
Transaction ID	M				_	
Α	M				YES	reject
В	M				YES	reject
>E		1 <maxe></maxe>			EACH	ignore
>>F		1 <maxf></maxf>			_	
>>>G		03,			EACH	ignore
>>H		1 <maxh></maxh>			EACH	ignore
>>>G		03,			EACH	ignore and
						notify
>>G	M				YES	reject
>>J		1 <maxj></maxj>			_	
>>>G		03,			EACH	reject
С	M				YES	reject
>K		1 <maxk></maxk>			EACH	ignore and
						notify
>>L		1 <maxl></maxl>			_	
>>>M	0				_	
D	M				YES	reject

Note 1. The IEs F, J, and L do not have assigned criticality. The IEs F, J, and L are consequently realised as the ASN.1 type SEQUENCE OF of "ordinary" ASN.1 type, e.g. INTEGER. On the other hand, the repeatable IEs with assigned criticality are realised as the ASN.1 type SEQUENCE OF of an IE object, e.g. ProtocolIE-Single-Container.

For the corresponding ASN.1 layout, see subclause C.4.

C.2 Example on a Received EXAMPLE MESSAGE

Assume further more that a received message based on the above tabular format is according to the figure below.

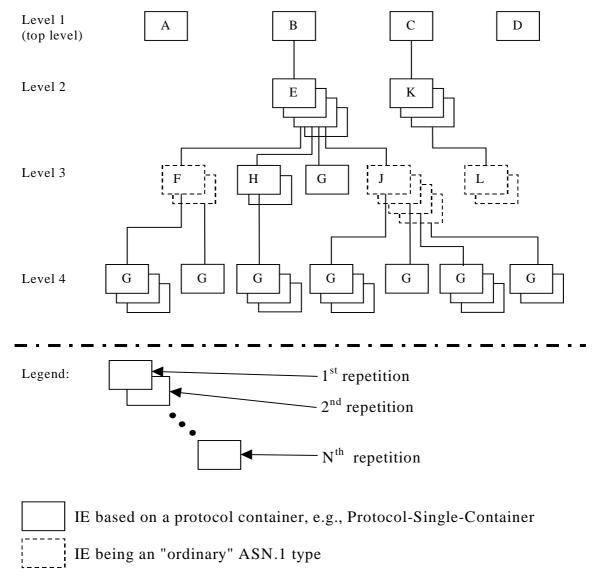
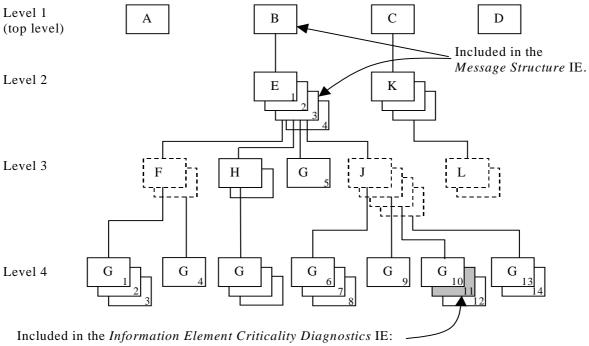


Figure C.1: Example of content of a received NBAP message based on the EXAMPLE MESSAGE

C.3 Content of Criticality Diagnostics

C.3.1 Example 1



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

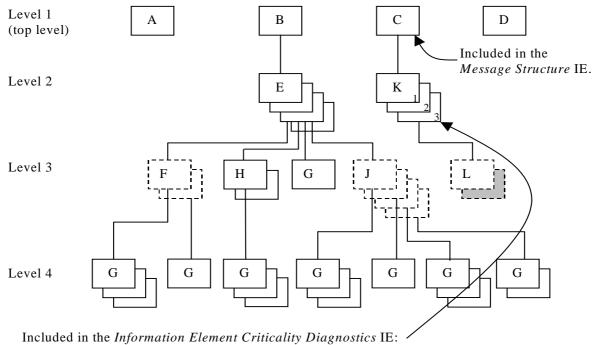
Figure C.2: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE J shown in the figure C.2 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 4.
IE ID	id-G	IE ID from the reported level, i.e. level 4.
Repetition	11	Repetition number on the reported level, i.e. level 4.
Number		(Since the IE E (level 2) is the lowest level included in the Message Structure IE this is
		the eleventh occurrence of IE G within the IE E (level 2).
Type of Error	not	
	underst	
	ood	
Message Structur	e, first repe	etition
>IE ID	id-B	IE ID from level 1.
Message 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

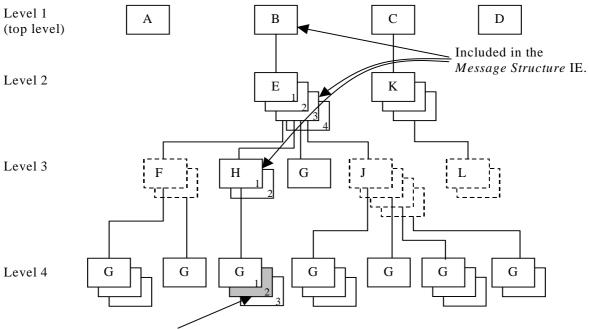
Figure C.3: Example of a received NBAP message containing a not comprehended IE

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 and notify	Criticality for IE on the reported level, i.e. level 2.
IE ID	id-K	IE ID from the reported level, i.e. level 2.
Repetition Number	3	Repetition number on the reported level, i.e. level 2.
Type of Error	not underst ood	
Message Structu	re, first rep	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

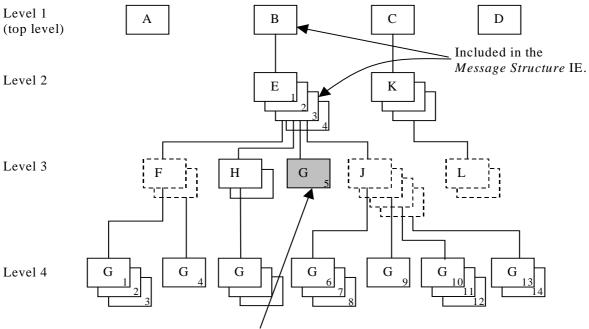
Figure C.4: Example of a received NBAP message containing a not comprehended IE

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

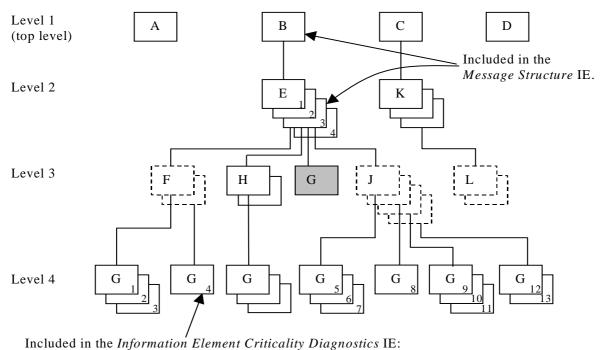
Figure C.5: Example of a received NBAP message containing a not comprehended IE

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 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 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



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 Number	4	Repetition number up to the missing IE on the reported level, i.e. level 3. (Since the IE E (level 2) is the lowest level included in the <i>Message Structure</i> IE there have been four occurrences of IE G within the IE E (level 2) up to the missing occurrence.
Type of Error	missing	
Message Structur	e, first 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 Number	3	Repetition number from the lowest level above the reported level, i.e. level 2.

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}}
}
ExampleMessage-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-A CRITICALITY reject TYPE A PRESENCE mandatory} | { ID id-B CRITICALITY reject TYPE B PRESENCE mandatory} | { ID id-C CRITICALITY reject TYPE C PRESENCE mandatory} | { ID id-D CRITICALITY reject TYPE D PRESENCE mandatory} ,
}
B ::= SEQUENCE {
                      E-List,
    \verb|ie-Extensions| & ProtocolExtensionContainer { {B-ExtIEs}} & OPTIONAL, \\
B-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-List ::= SEQUENCE (SIZE (1..maxE)) OF ProtocolIE-Single-Container { {E-IEs} }
E-IES NBAP-PROTOCOL-IES ::= {
   { ID id-E CRITICALITY ignore TYPE E PRESENCE mandatory }
E ::= SEQUENCE {
    h
                     H-List,
    q
                     G-List1.
                     J-List,
    iE-Extensions ProtocolExtensionContainer { {E-ExtIEs} } OPTIONAL,
}
E-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
F-List ::= SEQUENCE (SIZE (1..maxF)) OF F
F ::= SEQUENCE {
                      G-List2 OPTIONAL.
    iE-Extensions ProtocolExtensionContainer { {F-ExtIEs} } OPTIONAL,
          NBAP-PROTOCOL-EXTENSION ::= {
F-ExtIEs
 \mbox{G-List2} ::= \mbox{SEQUENCE (SIZE (1...3, ...)) OF Protocolle-Single-Container } \{ \mbox{ } \{\mbox{G2-IEs} \} \mbox{ } \} 
G2-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY ignore TYPE G PRESENCE mandatory }
H-List ::= SEQUENCE (SIZE (1..maxH)) OF ProtocolIE-Single-Container { {H-IEs} }
H-IES NBAP-PROTOCOL-IES ::= {
    H ::= SEQUENCE {
                     G-List3 OPTIONAL,
                                       ProtocolExtensionContainer { {H-ExtIEs} } OPTIONAL,
    iE-Extensions
H-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
G-List3 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G3-IEs} }
G3-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY notify TYPE G PRESENCE mandatory }
G-List1 ::= ProtocolIE-Single-Container { {G1-IEs} }
G1-IES NBAP-PROTOCOL-IES ::= {
   J-List ::= SEQUENCE (SIZE (1..maxJ)) OF J
J ::= SEQUENCE {
                  G-List4 OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {J-ExtIEs} } OPTIONAL,
J-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
G-List4 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { G4-IEs} }
G4-IES NBAP-PROTOCOL-IES ::= {
  { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
C ::= SEQUENCE {
   k
                  K-List,
   iE-Extensions ProtocolExtensionContainer { {C-ExtIEs} } OPTIONAL,
C-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
K-List ::= SEQUENCE (SIZE (1..maxK)) OF ProtocolIE-Single-Container { {K-IEs} }
K-IES NBAP-PROTOCOL-IES ::= {
   { ID id-K CRITICALITY notify TYPE K PRESENCE mandatory }
K ::= SEQUENCE {
                  L-List,
   iE-Extensions ProtocolExtensionContainer { {K-ExtIEs} } OPTIONAL,
K-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
L-List ::= SEQUENCE (SIZE (1..maxL)) OF L
L ::= SEQUENCE {
                  M OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {L-ExtIEs} } OPTIONAL,
L-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ExampleMessage-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

Annex D (normative): IB_SG_DATA Encoding

D.1 Overall Description

There exist two variants for encoding *IB_SG_DATA* IE (see section 9.2.1.32), which are detailed in subsections below. To avoid incorrect transmission of System Information on Uu, the following behaviour is required:

- For each Iub, CRNC shall use the encoding variant supported by the Node B for the *IB_SG_DATA* IE (see section 9.2.1.32) when sending the SYSTEM INFORMATION UPDATE REQUEST message to the Node B. This is supported by configuration in the CRNC.

D.2 IB_SG_DATA Encoding Variant 1

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed SIB segment is performed by the RNC. Building of IB_SG_DATA segments involves two steps:

- 1) Segmentation of MIB/SIB/SB and
- 2) RRC encoding of the segments, which includes the PER encoding of the length in case of "SIB data variable".

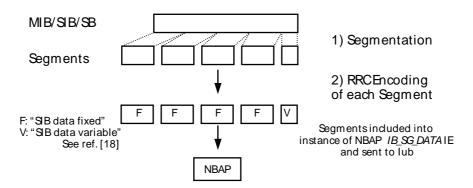


Figure D.1: The Building of Segments

D.3 IB_SG_DATA Encoding Variant 2

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed segment is not performed by the RNC. Segments are built in the CRNC by segmentation of a MIB/SIB/SB.

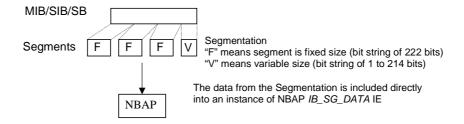


Figure D.2: The Building of Segments

Annex E (informative): 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	Subject/Comment	Old	New
March 01	11	RP-010160	373,3 87	V	Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010166			Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010159			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			Approved at TSG RAN #12	4.0.0	4.1.0
06/2001	12	RP-010385			Approved at TSG RAN #12	4.0.0	4.1.0
06/2001	12	RP-010396			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			Correction to Information Block Deletion	4.1.0	4.2.0
09/2001	13	RP-010587			Clarification of the AICH power	4.1.0	4.2.0
09/2001	13	RP-010587		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		1	Correction to the Error handling of the ERROR INDICATION message	4.1.0	4.2.0
09/2001	13	RP-010587			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		1	S-CCPCH Corrections for TDD Nbap criticality	4.1.0	4.2.0
09/2001	13	RP-010588		1	Clarification of Abnormal Conditions/Unsuccessful Operation	4.1.0	4.2.0
09/2001	13	RP-010588			Error handling of erroneously present conditional IEs	4.1.0	4.2.0
09/2001	13	RP-010588		1	Correction for maxNrOfCPCHs	4.1.0	4.2.0
09/2001	13	RP-010588	509	1	Correction for N_EOT	4.1.0	4.2.0
09/2001	13	RP-010588			Bitstrings ordering	4.1.0	4.2.0
09/2001	13	RP-010588			Mapping of TFCS to TFCI	4.1.0	4.2.0
09/2001	13	RP-010588			Correction of implementation of RAN#12 CRs	4.1.0	4.2.0
09/2001 09/2001	13 13	RP-010588 RP-010588		1	TDD Channelisation code range definition Clarification of chapter 10	4.1.0	4.2.0
09/2001	13	RP-010588		1	Clarification of chapter 10 Clarification of use of Diversity Control Indicator	4.1.0	4.2.0
09/2001	13	RP-010588		3	Clarification of coordinated DCHs	4.1.0	4.2.0
09/2001	13	RP-010599		2	Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type	4.1.0	4.2.0
09/2001	13	RP-010599	470		Support of 8PSK modulation for LCR TDD	4.1.0	4.2.0
09/2001	13	RP-010599			DPC Mode in Radio Link Addition procedure	4.1.0	4.2.0
09/2001	13	RP-010599			Correction on NBAP function	4.1.0	4.2.0
09/2001	13	RP-010599		1	Adding protocol container in CHOICE type IE	4.1.0	4.2.0
09/2001	13	RP-010599		1	Clarification of Abnormal Conditions/Unsuccessful Operation	4.1.0	4.2.0
09/2001	13 13	RP-010599	515	1	Corrections to position reporting	4.1.0	4.2.0
09/2001	13	RP-010599	518	2	CR to 25.433 v4.1.0: RX timing deviation as dedicated measurement for 1.28Mcps TDD	4.1.0	4.2.0

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				Added UTRAN modes in the IE Type and Reference and	4.2.1	4.3.0
		RP-010862	536		Semantics Description in IEs in NBAP messages		
12/2001	14				Alignment to RAN4 spec for Transmitted Code Power	4.2.1	4.3.0
		RP-010862			Measurement		
12/2001	14	RP-010862			Correction the Clause 10 Error Handling	4.2.1	4.3.0
12/2001	14	RP-010862			Clarification of TrCh Ordering in TFCS	4.2.1	4.3.0
12/2001	14	RP-010862			Addition of SIB15.4 and SIB18 to tabular	4.2.1	4.3.0
12/2001	14	RP-010862			Transmit Diversity for TDD	4.2.1	4.3.0
12/2001	14	RP-010862			Clarification for the definition of the ASN.1 constants	4.2.1	4.3.0
12/2001	14	RP-010862		1	Terminology Corrections	4.2.1	4.3.0
12/2001	14	RP-010863		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	DD 040000	F0F		Clarification for the Power Adjustment Type IE in the DL POWER	4.2.1	4.3.0
12/2001	14	RP-010863 RP-010863		1	CONTROL REQUEST message Forward Compatibility for DL Power Balancing	4.2.1	4.3.0
12/2001	14	RP-010863				4.2.1	4.3.0
12/2001	14	RP-010863		2	Reconfiguration clarification Addition of amendment to clarify the PER encoding of bitstrings	4.2.1	4.3.0
12/2001	14	RP-010863		2	Transport Bearer replacement clarification for the DSCH case	4.2.1	4.3.0
12/2001	14	RP-010863		_	Clarification of the Transaction ID	4.2.1	4.3.0
12/2001	14	RP-010863	_	1	CPCH-related corrections	4.2.1	4.3.0
12/2001	14	RP-010863		-	Correction of S field length	4.2.1	4.3.0
12/2001	14	RP-010874		1	Correction of drift rate resolution	4.2.1	4.3.0
12/2001	14	RP-010874		<u> </u>	Cell Parameter ID IE definition for 1.28Mcps TDD	4.2.1	4.3.0
12/2001	14	141 010074	0-17		Amendment of the RADIO LINK ADDITION RESPONSE TDD	4.2.1	4.3.0
12/2001	' -	RP-010874	548		message for LCR TDD	7.2.1	7.0.0
12/2001	14	RP-010874		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
		RP-020174	591	1	ASN.1		
03/2002	15				Removal of criticality information for Transaction ID in the ERROR	4.3.0	4.4.0
		RP-020174			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				Correction of the Limited Power Increase in Synchronised Radio	4.3.0	4.4.0
		RP-020174			Link Reconfiguration Preparation		
03/2002	15	RP-020174		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
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
00/2002		020.02			The trapportion concerns		
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		4	DL Power Capability as a shared resource between Cells	4.4.0	5.0.0
	15				Power Balancing Activation with Radio Link Setup and Radio Link	4.4.0	5.0.0
03/2002		RP-020188	496	4	Addition procedures in NBAP		<u> </u>
		111 020100			Power Balancing Restart with Radio Link Reconfiguration	4.4.0	5.0.0
03/2002	15	1020100				-	
03/2002		RP-020188	497	3	procedure in NBAP		
	15 15	RP-020188			procedure in NBAP Initial DL Power After addition of CCTrCH in Synchronized	4.4.0	5.0.0
03/2002	15	RP-020188 RP-020188	502	3	procedure in NBAP Initial DL Power After addition of CCTrCH in Synchronized Reconfiguration	4.4.0	
03/2002 03/2002 03/2002	15	RP-020188	502		procedure in NBAP Initial DL Power After addition of CCTrCH in Synchronized Reconfiguration NBAP Signalling support for flexible hard split	4.4.0	5.0.0
03/2002	15	RP-020188 RP-020188 RP-020194	502 583	2	procedure in NBAP Initial DL Power After addition of CCTrCH in Synchronized Reconfiguration NBAP Signalling support for flexible hard split Add IPDL parameters for LCR TDD in CELL SETUP REQUEST	4.4.0	
03/2002 03/2002 03/2002 03/2002	15 15 15	RP-020188 RP-020188 RP-020194 RP-020193	502 583 584	3	procedure in NBAP Initial DL Power After addition of CCTrCH in Synchronized Reconfiguration NBAP Signalling support for flexible hard split Add IPDL parameters for LCR TDD in CELL SETUP REQUEST and CELL RECONFIGURATION REQUEST in NBAP message.	4.4.0 4.4.0 4.4.0	5.0.0
03/2002 03/2002 03/2002	15	RP-020188 RP-020188 RP-020194	502 583 584 588	2	procedure in NBAP Initial DL Power After addition of CCTrCH in Synchronized Reconfiguration NBAP Signalling support for flexible hard split Add IPDL parameters for LCR TDD in CELL SETUP REQUEST	4.4.0	5.0.0

03/2002	15	RP-020189	597	2	Introduction of IP Transport option in UTRAN	4.4.0	5.0.0
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
		RP-020193	613	1	1.28Mcps TDD in NBAP		
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
06/2002	16	RP-020412	654		Introduction of SIB	5.0.0	5.1.0
06/2002	16	RP-020412	655		Removal of syntax errors from ASN.1	5.0.0	5.1.0
06/2002	16	RP-020412	656		Interaction between HSDPA and IP transport in UTRAN	5.0.0	5.1.0
06/2002	16	RP-020412	658	1	Interaction between HSDPA and Bearer Re-arrangement	5.0.0	5.1.0
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
		RP-020412	662		Initiation procedures		
06/2002	16	RP-020412	665		TFCI 0 definition for TDD	5.0.0	5.1.0
06/2002	16	RP-020412	670	1	NBAP Review – Alignment on the ASN.1	5.0.0	5.1.0
06/2002	16	RP-020412	672	1	NBAP Review Alignment of the ASN.1	5.0.0	5.1.0

06/2002	16				Definition of quality figures for SFN-SFN and Tutran-gps	5.0.0	5.1.0
00/0000		RP-020412		<u> </u>	measurement value information		
06/2002	16	RP-020412		1	Clarification for the usage of the cause value	5.0.0	5.1.0
06/2002 06/2002	16 16	RP-020412 RP-020412		2	HS-DSCH Initial credits F TFCI2 bearer clarification	5.0.0	5.1.0 5.1.0
09/2002	17	RP-020412		<u> </u>	WG4 Reference Corrections	5.1.0	5.1.0
09/2002	17	RP-020612			Rx Timing Deviation (TDD) corrections	5.1.0	5.2.0
09/2002	17	RP-020614			Clarification on the Common Measurement Reporting procedure	5.1.0	5.2.0
09/2002	17	RP-020628		1	Correction of HSDPA Common Configuration	5.1.0	5.2.0
09/2002	17	RP-020628		1	TFCI2 Bearer correction for IP transport	5.1.0	5.2.0
09/2002	17	RP-020628		1	Partial dedicated measurement reporting	5.1.0	5.2.0
09/2002	17	RP-020647		3	CQI and ACK/NACK Repetition Factor and Power Offset and k-	5.1.0	5.2.0
00/2002		020011	, 10		value	00	0.2.0
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		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	5.1.0	5.2.0
					GERAN specific LCS change in RANAP		
09/2002	17	RP-020589		1	Replacing all occurences of P _{SIR} (k) by □P _{curr} 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		2	IP_offset correction	5.1.0	5.2.0
09/2002	17	RP-020613		2	Uplink Synchronisation in 1.28Mcps TDD	5.1.0	5.2.0
09/2002	17	RP-020609		2	Modification of PICH Parameters LCR TDD	5.1.0	5.2.0
09/2002	17	RP-020604		1	Handling of conflicting specification text	5.1.0	5.2.0
09/2002	17	RP-020609		1	Correction to the specification of Optional IEs	5.1.0	5.2.0
12/2002	18	RP-020754			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	5.2.0	5.3.0
					1.28Mcps TDD		L
12/2002	18	RP-020757			Correction to RX Timing Deviation LCR value range	5.2.0	5.3.0
12/2002	18	RP-020759		2	Slot Format for 1.28Mcps TDD	5.2.0	5.3.0
12/2002	18	RP-020754		<u> </u>	SYNC_DL_Code ID for 1.28Mcps TDD	5.2.0	5.3.0
12/2002	18	RP-020773		1	Measurement power offset signalling for HSDPA	5.2.0	5.3.0
12/2002	18	RP-020768			Power offset values for HS-DPCCH	5.2.0	5.3.0
12/2002	18	RP-020855		3	MAC-hs Window Size	5.2.0	5.3.0
12/2002	18	RP-020754		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		!	Clarification to RACH for 1.28Mcps TDD	5.2.0	5.3.0
12/2002	18	RP-020763			Correction for the definition of the MAC-hs Reordering Buffer Size	5.2.0	5.3.0
12/2002	10	1020703	701		IE	3.2.0	3.3.0
12/2002	18	RP-020766	782		Clarification for the inclusion of the DL Power Balancing Updated	5.2.0	5.3.0
		020100	. 02		Indicator IE	0.2.0	0.0.0
12/2002	18	RP-020744	785		Correction for the DL DPDCH transmission	5.2.0	5.3.0
03/2003	19	RP-030068	791		Clarification to DL Power definition for TDD	5.3.0	5.4.0
03/2003	19	RP-030077		3	Correction to DL Tx Power for TDD	5.3.0	5.4.0
03/2003	19	RP-030072	794		TPC Step Size for TDD	5.3.0	5.4.0
03/2003	19	RP-030069	796		Clarification to 2nd Interleaving Mode for TDD	5.3.0	5.4.0
03/2003	19	RP-030063	797	2	HS-PDSCH Code and Timeslot Resource Assignment for TDD	5.3.0	5.4.0
03/2003	19	RP-030078	798	1	HS-PDSCH NBAP Corrections for TDD	5.3.0	5.4.0
03/2003	19		800	1	Clarification of HS-SCCH power offset usage in case of multiple	5.3.0	5.4.0
35,2000		RP-030073	000		LIC CCCHe		
					HS-SCCHs		
03/2003	19	RP-030081	801	1	HS-DSCH: addition of non-HS-DSCH power measurement	5.3.0	5.4.0
03/2003 03/2003	19	RP-030081 RP-030080	801 803	1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control	5.3.0	5.4.0
03/2003 03/2003 03/2003	19 19	RP-030081 RP-030080 RP-030082	801 803 806	-	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD	5.3.0 5.3.0	5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003	19 19 19	RP-030081 RP-030080 RP-030082 RP-030070	801 803 806 808	1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure	5.3.0 5.3.0 5.3.0	5.4.0 5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003 03/2003	19 19 19 19	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074	801 803 806 808 809	1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA	5.3.0 5.3.0 5.3.0 5.3.0	5.4.0 5.4.0 5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003	19 19 19 19 19	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071	801 803 806 808 809 811	1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003	19 19 19 19 19 19	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066	801 803 806 808 809 811 818	1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003	19 19 19 19 19 19 19	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059	801 803 806 808 809 811 818 823	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003	19 19 19 19 19 19 19 19	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030076	801 803 806 808 809 811 818 823 827	1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003	19 19 19 19 19 19 19 19 19 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030076 RP-030332	801 803 806 808 809 811 818 823 827 833	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1.	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003	19 19 19 19 19 19 19 19 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030076 RP-030332 RP-030278	801 803 806 808 809 811 818 823 827 833 834	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003 06/2003	19 19 19 19 19 19 19 19 19 20 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030332 RP-030278 RP-030333	801 803 806 808 809 811 818 823 827 833 834	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD HSDPA General Corrections	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003 06/2003 06/2003	19 19 19 19 19 19 19 19 20 20 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030332 RP-030278 RP-030333 RP-030320	801 803 806 808 809 811 818 823 827 833 834 835 840	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD HSDPA General Corrections Alignment of maximum HS DSCH code numbers to 25.211	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0 5.5.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003 06/2003	19 19 19 19 19 19 19 19 19 20 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030332 RP-030278 RP-030333	801 803 806 808 809 811 818 823 827 833 834 835 840	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD HSDPA General Corrections Alignment of maximum HS DSCH code numbers to 25.211 Correction in the tabular format of the CELL SYNCHRONISATION	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003 06/2003 06/2003	19 19 19 19 19 19 19 19 20 20 20 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030332 RP-030333 RP-030333 RP-030320 RP-030320	801 803 806 808 809 811 818 823 827 833 834 835 840	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD HSDPA General Corrections Alignment of maximum HS DSCH code numbers to 25.211 Correction in the tabular format of the CELL SYNCHRONISATION REPORT [TDD] message	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0 5.5.0 5.5.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003 06/2003 06/2003	19 19 19 19 19 19 19 19 20 20 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030332 RP-030278 RP-030333 RP-030320	801 803 806 808 809 811 818 823 827 833 834 835 840	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD HSDPA General Corrections Alignment of maximum HS DSCH code numbers to 25.211 Correction in the tabular format of the CELL SYNCHRONISATION REPORT [TDD] message Clarification of optional IEs for Node B synchronisation for LCR	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0 5.5.0 5.5.0
03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 03/2003 06/2003 06/2003 06/2003	19 19 19 19 19 19 19 19 20 20 20 20 20	RP-030081 RP-030080 RP-030082 RP-030070 RP-030074 RP-030071 RP-030066 RP-030059 RP-030332 RP-030333 RP-030333 RP-030320 RP-030320	801 803 806 808 809 811 818 823 827 833 834 835 840 841	1 1 1	HS-DSCH: addition of non-HS-DSCH power measurement Measurement for HS-SICH Outer Loop Power Control Corrections to Channelisation Code TFCI Mapping for TDD Correction for the Information Exchange Initiation procedure T1 signalling for HSDPA Midamble Configuration for Midamble Shift LCR Corrections to DCH Combining in RL SETUP and RL ADDITION Correction of PRACH Midamble for 1.28Mcps TDD Guaranteed Bit Rate for HSDPA Alignment of TDD HSDPA parameters to RAN2 and RAN 1. Non HSDPA Code Power Measurement for TDD HSDPA General Corrections Alignment of maximum HS DSCH code numbers to 25.211 Correction in the tabular format of the CELL SYNCHRONISATION REPORT [TDD] message	5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.3.0 5.4.0 5.4.0 5.4.0 5.4.0	5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.4.0 5.5.0 5.5.0 5.5.0 5.5.0 5.5.0

06/2003	20	RP-030329	850	1	HS-SCCH Change Indicator	5.4.0	5.5.0
06/2003	20	RP-030335	854		Correction to HARQ Memory Partitioning	5.4.0	5.5.0
06/2003	20	RP-030337			Correction for the value range of 'CQI Feedback cycle, k'	5.4.0	5.5.0
06/2003	20	RP-030336	856	1	Clarification for the handling of the HS-DSCH	5.4.0	5.5.0
06/2003	20	RP-030320	857	1	Clarification of SCCPCH maximum power for TDD	5.4.0	5.5.0
06/2003	20	RP-030328	859	2	Resource handling of HS-DSCH Guaranteed Bit Rate	5.4.0	5.5.0
06/2003	20	RP-030324	862		Alignment of the Requested Data Value Information IE description	5.4.0	5.5.0
06/2003	20	RP-030320	865		HS-SCCH Code deletion/replacement with Physical Shared	5.4.0	5.5.0
					Channel Reconfiguration		
06/2003	20	RP-030326			Correction of Failure message used for logical errors	5.4.0	5.5.0
09/2003	21	RP-030451		2	Discard timer signalling for HSDPA	5.5.0	5.6.0
09/2003	21	RP-030452	869	1	Phase Reference Signalling Support	5.5.0	5.6.0
09/2003	21	RP-030449		2	HS-DSCH Priority Queue to Modify	5.5.0	5.6.0
09/2003	21	RP-030536		2	MAC-hs Reordering Buffer Size	5.5.0	5.6.0
09/2003	21	RP-030441	876	1	Correction of HS-SCCH Code IE	5.5.0	5.6.0
09/2003	21	RP-030441	877	1	Power configuration of PDSCH for TDD	5.5.0	5.6.0
09/2003	21	RP-030443	881		Corrections to Tx Diversity	5.5.0	5.6.0
09/2003	21	RP-030444	884		'On Modification' and 'Periodic' reporting alignment for Information	5.5.0	5.6.0
					Exchange procedures		
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
09/2003	21	RP-030446	887	1	Removal of the note in chapter 10	5.5.0	5.6.0
09/2003	21	RP-030441	888	1	Correction for the start code number of HS-PDSCH	5.5.0	5.6.0
09/2003	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	21	RP-030453	893	2	HS-DSCH information usage description correction	5.5.0	5.6.0
09/2003	21	RP-030441			Correction of CR 609 implementation error on definition of end of	5.5.0	5.6.0
					audit sequence indicator and dwPCH power		
09/2003	21	RP-030441	898	2	Clarification to the Constant Value for TDD	5.5.0	5.6.0
12/2003	22	RP-030674	900	1	Correction of wrong number in GPS Timing calculation	5.6.0	5.7.0
12/2003	22	RP-030687			Correction for the HS-DSCH Initial Capacity Allocation	5.6.0	5.7.0
12/2003	22	RP-030688			Correction of Backward Compatibility for Uni-directional DCH	5.6.0	5.7.0
					indicator		
12/2003	22	RP-030692	903		Reconfiguration of Multiple Radio Links in TDD	5.6.0	5.7.0
12/2003	22	RP-030693			The usage of the MAC-hs Reordering Buffer Size	5.6.0	5.7.0
12/2003	22	RP-030679				5.6.0	5.7.0
					B Communication Context		
12/2003	22	RP-030674	913		Correction of the repetition name for 1.28Mcps TDD in the RADIO	5.6.0	5.7.0
					LINK RECONFIGURATION PREPARE TDD message		
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-030674			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-030691		1	Range Extension for GPS Almanac Reporting	5.6.0	5.7.0
12/2003	22	RP-030713		2	'Explicit HARQ Memory Partitioning Clarification'	5.6.0	5.7.0
12/2003	22	RP-030674			Clarification of Timing advance applied for 1.28Mcps TDD	5.6.0	5.7.0
12/2003	22	RP-030684		1	Removal of the ambiguity about the activation time	5.6.0	5.7.0
12/2003	22	RP-030679			Ambiguity of the activation time of the Physical Shared CH	5.6.0	5.7.0
					Reconfiguration		
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		1	Resource Status Indication and Audit for HSDPA	5.6.0	5.7.0
12/2003	22	RP-030695		1	Unsynchronised RL Reconfiguration for HSDPA	5.6.0	5.7.0
12/2003	22	RP-030694		2	TNL QoS for uplink IP traffic	5.6.0	5.7.0
12/2003	22	RP-030689			Correction of Transmission Gap Pattern Sequence Information	5.6.0	5.7.0
12/2003	22	RP-030679		2	NBAP Review	5.6.0	5.7.0
12/2003	22	RP-030679		1	Correction to Physical Shared Channel Reconfiguration for HSDPA	5.6.0	5.7.0
12/2003	22	RP-030679		1	Correction to Common Measurements for HSDPA	5.6.0	5.7.0
12/2003	22	RP-030683		1	Information Exchange Initiation behavior correction	5.6.0	5.7.0
12/2003	22	RP-030674			Extension of Requested Data Value IE	5.6.0	5.7.0
12/2003	22	RP-030726		2	Signalling Support for Beamforming Enhancement	5.7.0	6.0.0
	23	RP-040088		-	Interference measurement in UpPTS for 1.28Mcps TDD	6.0.0	6.1.0
03/2004				1	Enabling of closed loop transmit diversity in TDD mode	6.0.0	6.1.0
03/2004	23	IRP-U4UU7			1 = 1.55 mode	0.0.0	6.1.0
03/2004	23	RP-040071			Correction of Reconfiguration of Multiple Radio Links in TDD	600	
03/2004 03/2004	23	RP-040071	956		Correction of Reconfiguration of Multiple Radio Links in TDD Corrections for HS-DSCH Configuration Signalling	6.0.0	
03/2004 03/2004 03/2004	23 23	RP-040071 RP-040065	956 960	1	Corrections for HS-DSCH Configuration Signalling	6.0.0	6.1.0
03/2004 03/2004 03/2004 03/2004	23 23 23	RP-040071 RP-040065 RP-040066	956 960 962	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA	6.0.0 6.0.0	6.1.0 6.1.0
03/2004 03/2004 03/2004	23 23	RP-040071 RP-040065	956 960 962	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with	6.0.0	6.1.0
03/2004 03/2004 03/2004 03/2004 03/2004	23 23 23 23	RP-040071 RP-040065 RP-040066 RP-040071	956 960 962 968	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with 'All NBCC'	6.0.0 6.0.0 6.0.0	6.1.0 6.1.0 6.1.0
03/2004 03/2004 03/2004 03/2004	23 23 23	RP-040071 RP-040065 RP-040066	956 960 962 968		Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with 'All NBCC' NBAP ASN.1 Corrections for the CELL SYNCHRONISATION	6.0.0 6.0.0	6.1.0 6.1.0
03/2004 03/2004 03/2004 03/2004 03/2004 03/2004	23 23 23 23 23	RP-040071 RP-040065 RP-040066 RP-040071 RP-040058	956 960 962 968 972	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with 'All NBCC' NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message	6.0.0 6.0.0 6.0.0	6.1.0 6.1.0 6.1.0
03/2004 03/2004 03/2004 03/2004 03/2004 03/2004 03/2004	23 23 23 23 23 23	RP-040071 RP-040065 RP-040066 RP-040071 RP-040058	956 960 962 968 972	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with 'All NBCC' NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message NBAP Corrections for TDD	6.0.0 6.0.0 6.0.0 6.0.0	6.1.0 6.1.0 6.1.0 6.1.0
03/2004 03/2004 03/2004 03/2004 03/2004 03/2004 03/2004 03/2004	23 23 23 23 23 23 23 23	RP-040071 RP-040065 RP-040066 RP-040071 RP-040071 RP-040068	956 960 962 968 972 974 978	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with 'All NBCC' NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message NBAP Corrections for TDD Extension of the range of PCCPCH RSCP	6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0	6.1.0 6.1.0 6.1.0 6.1.0 6.1.0 6.1.0
03/2004 03/2004 03/2004 03/2004 03/2004 03/2004 03/2004	23 23 23 23 23 23	RP-040071 RP-040065 RP-040066 RP-040071 RP-040058	956 960 962 968 972 974 978	1	Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with 'All NBCC' NBAP ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message NBAP Corrections for TDD	6.0.0 6.0.0 6.0.0 6.0.0	6.1.0 6.1.0 6.1.0 6.1.0

03/2004	23	RP-040071	985	1	Correction to HS-SCCH Code Range	6.0.0	6.1.0
03/2004	23	RP-040064			Setting of TGPSI	6.0.0	6.1.0
06/2004	24	RP-040176		1	Correction of PHYSICAL SHARED CHANNEL	6.1.0	6.2.0
00/2004	27	1040170	331	١.	RECONFIGURATION message	0.1.0	0.2.0
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		1	Unsuccessful Operation of RL Setup Procedure for HSDPA	6.1.0	6.2.0
06/2004	24	RP-040184		1	Measurement Recovery Behavior for Common and Dedicated	6.1.0	6.2.0
00/2001		141 010101	001		Measurement Procedures	0.1.0	0.2.0
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			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	RP-040301			Use of Communication Context id in NBAP reset	6.2.0	6.3.0
09/2004	25	RP-040295		2	Addition of TSTD for S-CCPCH, PICH and PDSCH in 1.28 Mcps	6.2.0	6.3.0
					TDD		
09/2004	25	RP-040301	1021		Re-wording of the Intra-Node B Serving HS-DSCH Radio Link	6.2.0	6.3.0
					Change in the Prepared Radio Link Reconfiguration procedure		
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	6.3.0	6.4.0
					and procedure text		
12/2004	26	RP-040435	1048	1	Correction to the Assigned Criticality of UL Synchronisation	6.3.0	6.4.0
				L	Parameters LCR IE for 1.28Mcps TDD		
12/2004	26	RP-040437		4	Introduction of MBMS	6.3.0	6.4.0
12/2004	26	RP-040441			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	6.4.0	6.5.0
					Procedures		
03/2005	27	RP-050054			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		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	RP-050062	1085	2	HSDPA Code Allocation/Measurement per Cell Portion	6.4.0	6.5.0
03/2005	27	RP-050053	1087		Interaction between Synchronised RL Reconfiguration and RL	6.4.0	6.5.0
					Deletion		
03/2005	27	RP-050053	1089		Clarification on HS-DSCH Information IE	6.4.0	6.5.0
06/2005	28	RP-050254		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	6.5.0	6.6.0
					dedicated measurement procedure for TDD		
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06/2005	28	RP-050229		2	E-DCH diversity control	6.5.0	6.6.0
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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		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	6.5.0	6.6.0
	<u> </u>		<u> </u>		cases but when the UE supports SF512	<u> </u>	<u></u>
06/2005	28	RP-050220	1118		Feature Clean-up: Removal of Support of dedicated pilot as sole	6.5.0	6.6.0
				L	phase reference		<u></u>
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		1	Synchronisation for MBMS p-t-m Transmissions from Multiple Cells	6.5.0	6.6.0
					(Simulcast)		
06/2005	28	RP-050229	1125	1	Alignment of NBAP with latest status of EUDCH stage 2 (TS	6.5.0	6.6.0
1	1			I	25.309) and RRC (TS 25.331)	Ī	
09/2005		RP-050433			NBAP stage 3 alignment with current status	6.6.0	6.7.0

09/2005	29	RP-050433	1127		E-DCH Minimum Set Reference Correction	6.6.0	6.7.0
09/2005	29	RP-050444		1	Improvement of the Abnormal Conditions description of the	6.6.0	6.7.0
					COMMON MEASUREMENT INITIATION procedure		
09/2005	29	RP-050435		1	Signalling of Reference Received Total Wideband Power IE	6.6.0	6.7.0
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09/2005	29	RP-050440		2	Non HS transmitted power	6.6.0	6.7.0
09/2005 09/2005	29 29	RP-050433			E-DCH miscellaneous corrections	6.6.0 6.6.0	6.7.0
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