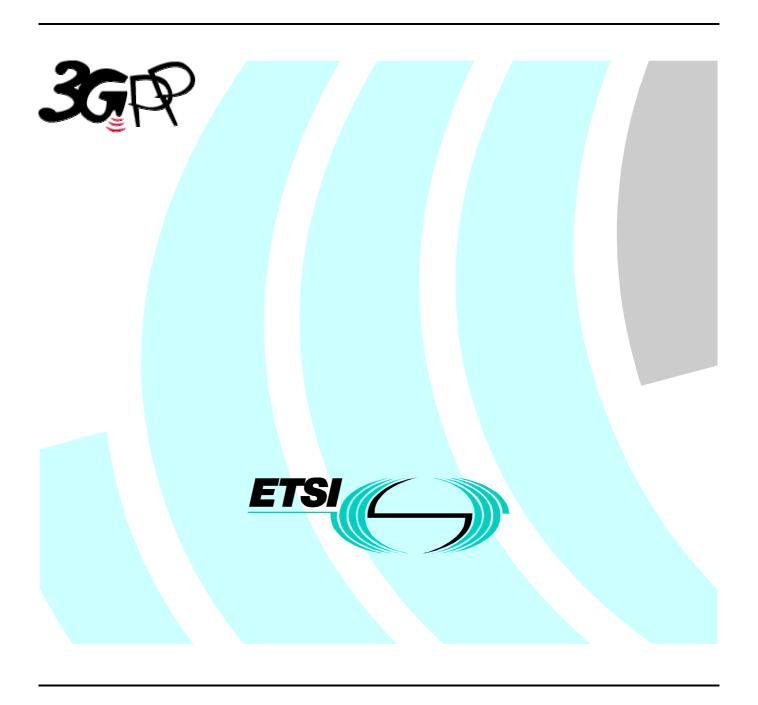
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Foreword

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Scope 1

The present document specifies the standards for NBAP specification to be used 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.		
[1]	3G TS 25.401: "UTRAN Overall Description".	
[2]	$3G\ TS\ 25.426$: "UTRAN I_{ur} and I_{ub} Interface Data Transport & Transport Signalling for DCH Data Streams".	
[3]	CCITT Recommendation X.731 (01/92): "Information Technology – Open Systems Interconnection – Systems Management: State Management function".	
[4]	3G TS 25.215: "Physical layer – Measurements (FDD)".	
[5]	3G TS 25.225: "Physical layer – Measurements (TDD)".	
[6]	3G TS 25.430: "UTRAN Iub General Aspect and Principle".	
[7]	3G TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".	

[8]	3G TS 25.212:	"Multiplexing a	nd channel	coding (FDD)".
[0]	30 10 23.212.	manipieming a	iid ciidiiiici	coding (1 DD).

[9] 3G TS 25.213: "Spreading and modulation	n (FDD)".
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[11]	X.691, (12/94): "Information technology - ASN.1 encoding rules - Specification of Packed
	Encoding Rules (PER)".

[12]	X.680, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Specification of
	basic notation".

[13]	X.681, (12/94) "Information Technology - Abstract Syntax Notation One (ASN.1): Information
	object specification"

- [14] 3G TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception". [15]
- 3G TS25.427: "UTRAN Iur/Iub Interface User Plane Protocol for DCH Data Stream" [16]
- [17] 3G TS25.402: "Synchronisation in UTRAN Stage2"
- [18] 3G TS25.331: "RRC Protocol Specification"
- [19] 3G TS25.221: "Physical channels and mapping of transport channels onto physical channels[TDD]"
- [20] 3G TS25.223: "Spreading and modulation (TDD)"

[21]	3G TS25.224: "Physical Layer Procedures (TDD)"
[22]	3G TS 25.133: "Requirements for support of Radio Resource management (FDD)"
[23]	3G TS 25.123: "Requirements for support of Radio Resource management (TDD)"
[24]	3G TS 25.435: "UTRAN Iub Interface: User Plane Protocols for Common Transport Channel Data Streams".
[25]	3G TS 25.302: "Services Provided by the Physical Layer".

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 successfully completed with the receipt of the response.

Unsuccessful

- A signalling message explicitly indicates that the EP failed.
- On time supervision expiry (i.e. absence of expected response). Whether or not any Class 1 procedure will have a timer on NBAP is FFS. To be sorted out when discussing the details of the error cases.

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 any more after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed.

3.2 Symbols

Void.

3.3 Abbreviations

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

ASN.1 Abstract Syntax Notation One
ATM Asynchronous Transfer Mode
BCCH Broadcast Control Channel
CCPCH Common Control Physical Cha

CCPCH Common Control Physical Channel

CFN Connection Frame Number

CM Compressed Mode CPCH Common Packet Channel

CRNC Controlling Radio Network Controller

DCH Dedicated Channel

DL Downlink

DPCCH Dedicated Physical Control Channel
DPCH Dedicated Physical Channel

DPDCH Dedicated Physical Data Channel
DSCH Downlink Shared Channel
FDD Frequency Division Duplex

FP Frame Protocol

L1 Layer 1 L2 Layer 2

NBAP Node B Application Part
O&M Operation and Management
PCPCH Physical Common Packet Channel
PDSCH Physical Downlink Shared Channel
PUSCH Physical Uplink Shared Channel

RL Radio Link RLS Radio Link Set

RNC Radio Network Controller RRC Radio Resource Control

SRNC Serving Radio Network Controller

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

UE User Equipment

UL Uplink

USCH Uplink Shared Channel

UTRAN UMTS Terrestrial Radio Access Network

4 General

4.1 Procedure Specification Principles

Node B Application Part, NBAP, includes common procedures and dedicated procedures. It covers procedures for paging distribution, broadcast system information, request / complete / release of dedicated resources and management of logical resources (logical O&M [1]).

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.

4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by a mechanism where all current and future the 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. This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to 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.

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

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)" or "SSDT Active in the UE".

5 NBAP Services

The NBAP offers the following services:

ΙE

5.1 Parallel Transactions

Unless explicitly indicated in the procedure description, at any instance in time one protocol peer shall have initiated maximum one ongoing dedicated NBAP procedure related to a certain NodeB communication context.

6 Services Expected from Signalling Transport

Contents are missing.

7 Functions of NBAP

The NBAP protocol has 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 that both nodes has the same information on the configuration of the radio resources.
- Measurements on Common Resources. This function allows the CRNC to initiate measurements 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 in the NodeB. The function also allows the NodeB 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.

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

Table 1: Mapping between functions and NBAP elementary procedures

Function	Elementary Procedure(s)
Cell Configuration Management	a) Cell Setup
	b) Cell Reconfiguration
	c) Cell Deletion
Common Transport Channel Management	a) Common Transport Channel Setup
	b) Common Transport Channel
	Reconfiguration
	c) Common Transport Channel Deletion
System Information Management	System Information Update
Resource Event Management	a) Block Resource
	b) Unblock Resource
	c) Resource Status Indication
Configuration Alignment	a) Audit Required
	b) Audit
Measurements on Common Resources	a) Common Measurement Initiation
	b) Common Measurement Reporting
	c) Common Measurement Termination
	d) Common Measurement Failure
Radio Link Management.	a) RL Setup
	b) RL Addition
	c) RL Deletion
	d) Unsynchronised RL Reconfiguration
	e) Synchronised RL Reconfiguration
	Preparation
	f) Synchronised RL Reconfiguration Commit
	g) Synchronised RL Reconfiguration
	Cancellation
Radio Link Supervision.	a) RL Failure
	b) RL Restoration
Compressed Mode Control [FDD]	a) Compressed Mode Preparation
	b) Compressed Mode Commit
	c) Compressed Mode Cancellation
Measurements on Dedicated Resources	a) Measurement Request
	b) Measurement Reporting
	c) Measurement Termination
	d) Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
Reporting of General Error Situations	Error Indication

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 UE 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 UE context in Node B. This UE context is identified by a UE 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 1: Class 1

Elementary	Message	Successful Outcome	Unsuccessful Outco	me
Procedure		Response message	Response message	Timer
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 Transport Channel Setup	COMMON TRANSPORT CHANNEL SETUP REQUEST	COMMON TRANSPORT CHANNEL SETUP RESPONSE	COMMON TRANSPORT CHANNEL SETUP FAILURE	
Common Transport Channel Reconfiguration	COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST	COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE	COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE	
Common Transport Channel Deletion	COMMON TRANSPORT CHANNEL DELETION REQUEST	COMMON TRANSPORT CHANNEL DELETION RESPONSE		
Physical Shared Channel Reconfigure [TDD] Audit	PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST AUDIT REQUEST	PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE AUDIT RESPONSE	PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE	
Block Resource	BLOCK RESOURCE REQUEST	BLOCK RESOURCE RESPONSE	BLOCK RESOURCE FAILURE	
Radio Link Setup	RADIO LINK SETUP REQUEST	RADIO LINK SETUP RESPONSE	RADIO LINK SETUP FAILURE	
System Information Update	SYSTEM INFORMATION UPDATE REQUEST	SYSTEM INFORMATION UPDATE RESPONSE	SYSTEM INFORMATION UPDATE FAILURE	
Common Measurement Initiation	COMMON MEASUREMENT INITIATION REQUEST	COMMON MEASUREMENT INITIATION RESPONSE	COMMON MEASUREMENT INITIATION FAILURE	
Radio Link Addition	RADIO LINK ADDITION REQUEST	RADIO LINK ADDITION RESPONSE	RADIO LINK ADDITION FAILURE	
Radio Link Deletion	RADIO LINK DELETION REQUEST	RADIO LINK DELETION RESPONSE		
Synchronised Radio Link Reconfiguration Preparation	RADIO LINK RECONFIGURATION PREPARE	RADIO LINK RECONFIGURATION READY	RADIO LINK RECONFIGURATION FAILURE	
Unsynchronised Radio Link Reconfiguration	RADIO LINK RECONFIGURATION REQUEST	RADIO LINK RECONFIGURATION RESPONSE	RADIO LINK RECONFIGURATION FAILURE	
Dedicated Measurement Initiation	DEDICATED MEASUREMENT INITIATION REQUEST	DEDICATED MEASUREMENT INITIATION RESPONSE	DEDICATED MEASUREMENT INITIATION FAILURE	

Termination

Common Measurement Failure

Synchronised Radio Link

Reconfiguration Commit

Synchronised Radio Link

Radio Link Restoration

Dedicated Measurement

Radio Link Failure

Termination

Command

Reconfiguration Cancellation

Dedicated Measurement Reporting

Dedicated Measurement Failure

Downlink Power Control [FDD]

Compressed Mode Control

 Elementary Procedure
 Message

 Resource Status Indication
 RESOURCE STATUS INDICATION

 Audit Required
 AUDIT REQUIRED INDICATION

 Common Measurement Reporting
 COMMON MEASUREMENT

 Common Measurement
 COMMON MEASUREMENT

COMMIT

REPORT

CANCELLATION

TERMINATION REQUEST

COMMON MEASUREMENT FAILURE INDICATION

RADIO LINK RECONFIGURATION

RADIO LINK RECONFIGURATION

RADIO LINK FAILURE INDICATION

DEDICATED MEASUREMENT

DEDICATED MEASUREMENT

DEDICATED MEASUREMENT FAILURE INDICATION

DL POWER CONTROL REQUEST

COMPRESSED MODE COMMAND

UNBLOCK RESOURCE INDICATION

TERMINATION REQUEST

ERROR INDICATION

RADIO LINK RESTORE INDICATION

Table 2: Class 2

8.2 NBAP Common Procedures

Unblock Resource

Error Indication

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, PCPCH[FDD], AICH [FDD], AP_AICH[FDD], CD/CA-ICH[FDD], FACH, PCH, RACH and CPCH[FDD].

8.2.1.2 Successful Operation

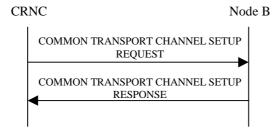


Figure 1: Common Transport Channel Setup procedure, Successful Operation

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

One message can configure only one of the following combinations:

- [FDD-one Secondary CCPCH, and FACHes, PCH and PICH related to that Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or

- one PRACH, and one RACH and one AICH(FDD) related to that PRACH at the time.
- [FDD-PCPCHes, one CPCH, one AP_AICH and one CD/CA-ICH related to that group of PCPCHes at the time.]

Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a Secondary CCPCH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The handling of the optional *STTD* IE is FFS.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains one or more Secondary CCPCHs, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[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 one or several FACHs, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PCH and a PICH, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. [FDD- The handling of the optional *STTD* IE for PICH is FFS.]

PRACH:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PRACH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[FDD- The handling of the optional STTD IE for AICH is FFS.]

[FDD-PCPCHes]:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains PCPCHes, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[FDD- The handling of the optional *STTD* IE for AP-AICH and CD/CA-ICH is FFS.]

After a successful procedure, the defined common transport channels and the common physical channels shall adopt the state Enabled [6] in Node B and the common transport channels exist on the Uu interface. 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 transport layer information for the configured common transport channels.

8.2.1.3 Unsuccessful Operation

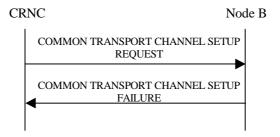


Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation

If the state already is Enabled or Disabled [6] for at least one channel channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message 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 Node B is not able to support all 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
- Unknown C-ID
- Power level not supported
- Node B Resources unavailable

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error
- Message not compatible with receiver state

Miscellaneous Cause

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

8.2.1.4 Abnormal Conditions

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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

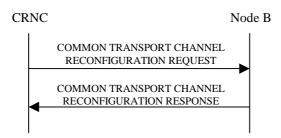


Figure 3: Common Transport Channel Reconfiguration, Successful Operation

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

One message can configure only one of the following combinations:

- [FDD- FACHes, one PCH and/or one PICH related to one Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or
- one RACH and/or one AICH(FDD) related to one PRACH, or
- [FDD- one CPCH and/or one AP-AICH and/or one CD/CA-ICH related to one CPCH

at the time.

[TDD S-CCPCH: If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message

includes the S-CCPCH Power IE, the Node B shall reconfigure the power that the indicated S-

CCPCH shall use.]

FACH: When one or several FACHs are present Node B reconfigures the indicated FACHs.

[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 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 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 FACH shall use.

PCH: When the PCH is present Node B reconfigures 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.]

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: When a PICH is present Node B reconfigures 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.

[FDD- PRACH]: When a PRACH is present Node B reconfigures the indicated PRACH.

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

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

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Sub Channel Information, the Node B shall reconfigure the sub channel numbers that the PRACH shall use.

[FDD- AICH]: When a AICH is present Node B reconfigures the indicated AICH.

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

[FDD- CPCH]: When a CPCH is present Node B reconfigures the indicated CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes UL SIR Information, the Node B shall reconfigure the UL SIR for the UL power control for the CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Initial DL transmission Power Information, the Node B shall reconfigure the Initial DL transmission Power for the CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Maximum DL Power Information, the Node B shall apply this value to the new configuration and never transmit with a higher power on any DL PCPCHes once the new configuration is being used.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Minimum DL Power Information, the Node B shall apply this value to the new configuration and never transmit with a lower power on any DL PCPCHes once the new configuration is being used.

[FDD- AP-AICH]: When a AP-AICH is present Node B reconfigures the indicated AP-AICH.

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

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

[FDD-CD/CA-ICH]: When a CD/CA-ICH is present Node B reconfigures the indicated CD/CA-ICH.

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

After a successful procedure, the channels have adopted the new configuration in Node B. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. 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

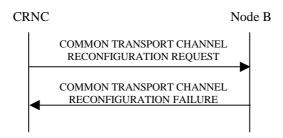


Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation

If the Node B is not able to support all parts 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 RECONGURATION FAILURE message.

Typical cause values are as follows:

Radio Network Layer Cause

- Cell not available
- Unknown C-ID
- Power level not supported
- Node B Resources unavailable

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

- O&M Intervention
- Unspecified
- 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 setup by the Common Transport Channel Setup procedure in a cell.

8.2.3.2 Successful Operation

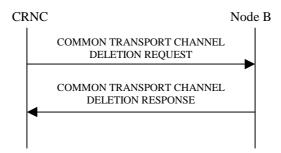


Figure 5: Common Transport Channel Deletion procedure, Ssuccessful Operation

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

Secondary CCPCH: When the COMMON TRANSPORT CHANNEL DELETION REQUEST message

contains a Secondary CCPCH, Node B shall delete the indicated channel and the FACHes 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.

PRACH: When the COMMON TRANSPORT CHANNEL DELETION REQUEST message

contains a PRACH, Node B shall delete the indicated channel and the RACH supported by

the PRACH. [FDD- The AICH associated with the PCH shall also be deleted.]

[FDD – PCPCHes]: When the COMMON TRANSPORT CHANNEL DELETION REQUEST message

contains one of PCPCHes for a CPCH, Node B shall delete all PCPCHes associated with the indicated channel and the CPCH supported by the PCPCHes. The AP-AICH and

CD/CA-ICH associated with the PCH shall also be deleted.]

[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 Node B. The channels in the COMMON TRANSPORT CHANNEL DELETION REQUEST message shall be set to state Not Existing [6]. Node B shall store the new 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 cell.

8.2.4.2 Successful Operation

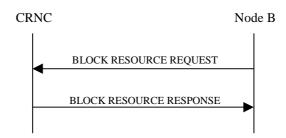


Figure 6: Block Resource procedure, Successful Operation

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

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.

The BLOCK RESOURCE REQUEST message shall include the *Shutdown Timer* IE when the *Blocking Priority Indicator* IE 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 in the 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 [TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, if present the Secondary CPICH(s)] 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

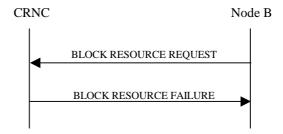


Figure 7: Block Resource procedure, Unsuccessful Operation

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:

Protocol Cause

- Semantic error

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 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. Node B shall enable [TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH(s) (if present)] 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.

When the logical resource indicated is acell, all associated physical channels and transport channels are 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.

If the Node B cannot ensure alignment of the state or configuration information, it should initiate the Audit required indication 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. The audit may cause the CRNC to re-sync 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.

If a Configuration Generation ID IE for a cell can not be trusted, the Node B shall set this Configuration Generation ID IE = $^{\circ}$ 0'.

The Node B shall include in the AUDIT RESPONSE message a *Local Cell Information* IE group for each local cell present in the Node B. The Node B shall include the *Maximum DL Power Capability* IE if the value is known by the Node B.

The Node B shall include the Node B internal resource capability and consumption laws with the "NodeB Information IE group.". 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.

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 group". 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.

The Node B shall include in the AUDIT RESPONSE message a *Cell Information* IE group for each cell in the Node B and information about all common transport channels and all common physical channels for each cell. Node B shall also include in the AUDIT RESPONSE message, a *Communication Control Port Information* IE group for each communication control port in the Node B.

8.2.7.3 Unsuccessful Operation

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8.2.7.4 Abnormal Conditions

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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

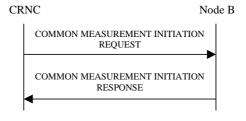


Figure 11: Common Measurement Initiation procedure: Successful Operation

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 Time Slot Information is provided in the *Common Measurement Object Type* IE , the measurement request shall apply to the requested time slot individually.]

[FDD- If the Spreading Factor Information is provided in the *Common Measurement Object* Type *IE*, measurement request shall apply to the PCPCHes whose minimum allowed spreading factor (Min UL Channelisation Code Length) is equal to the value of Spreading Factor Information.

Report characteristics

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

If the *Report Characteristics* IE is set to 'On-Demand', the Node B shall report the result of the requested measurement immediately.

If the *Report Characteristics* IE is set to 'Periodic', the Node B shall periodically initiate a Measurement Reporting procedure for this measurement, with the requested report frequency.

If the *Report Characteristics* IE is set to 'Event A', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, 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 a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, 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 a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, 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 a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

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 a 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

 $a = 1/2^{(k/2)}$ -, 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.

The physical layer measurement results are sampled once every measurement period. For most measurements the measurement period and the accuracy are defined in [22] / [23]. For those measurements not covered in [22] / [23], the following measurement period and accuracy are applicable:

Measurement	Accuracy	Measurement period
Acknowledged RA tries Value	± 0%	20ms

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 when the *Report Characteristics* IE is set to "On-Demand", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result.

8.2.8.3 Unsuccessful Operation

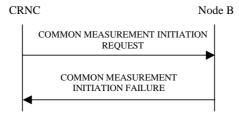


Figure 12: Common Measurement Initiation procedure: Unsuccessful Operation

If the Common Measurement Type received in the *Common Measurement Type* IE is not defined in ref. [4] or [5] to be measured on the Common Measurement Object Type received in the *Common Measurement Object Type* IE in the COMMON MEASUREMENT INITIATION REQUEST message the Node B shall regard the Common Measurement Initiation procedure as failed. For measurements not defined in ref. [4] or [5] the Node B shall regard the measurement as failed unless the *Common Measurement Object Type* IE has the following value(s):

Common Measurement Type	Common Measurement Object Type
Acknowledged RA tries Value	"RACH"

If the requested measurement cannot be initiated, the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message sent 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 Temporaily not Available

8.2.8.4 Abnormal Conditions

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8.2.9 Common Measurement Reporting

8.2.9.1 General

This procedure is used by a 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 a Measurement Reporting procedure. The COMMON MEASUREMENT REPORT message shall use the Node B control port. Unless specified below, the meaning of the parameters are given in other specifications.

The *Common Measurement Id* IE shall be set to the Common 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, the Measurement not available shall be reported.

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 measurements corresponding to the Common Measurement Id.

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 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 no longer can be reported.

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 Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful Operation

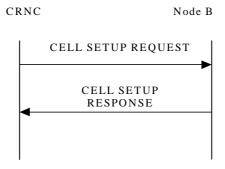


Figure 16: Cell Setup procedure: Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from CRNC to Node B. 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 group 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.]

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

8.2.12.3 Unsuccessful Operation

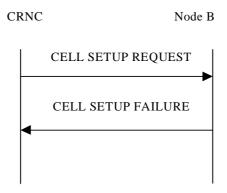


Figure 17: Cell Setup procedure: Unsuccessful Operation

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

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 CRNC.

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

The Cause IE shall be set to an appropriate value.

8.2.12.4 Abnormal Conditions

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8.2.13 Cell Reconfiguration

8.2.13.1 General

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

8.2.13.2 Successful Operation

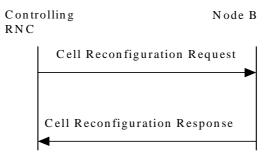


Figure 18: Cell Reconfiguration procedure: Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from CRNC to Node B. 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 group the Node B shall reconfigure 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 group the Node B shall reconfigure 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 group the Node B shall reconfigure Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. 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 groups the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

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

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

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure P-CCPCH power in the cell according to the *P-CCPCH Power* IE value. 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.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timeslot Information* IE group the Node B shall reconfigure switching-point structure in the cell according to the *Timeslot* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *Constant Value* IE's, the Node B shall use these values when generating the appropriate SIB.]

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* group the Node B shall reconfigure the indicated parameters in the cell according to the IE value. The modified parameters shall not impact the existing value of any ongoing timer or counter relating to the synchronisation status of a RL set. When the parameters in the *Synchronisation Configuration IE* group affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds.

8.2.13.3 Unsuccessful Operation

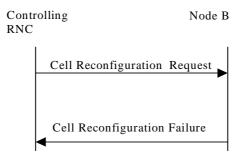


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

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 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 Node B.

The Cause IE shall be set to an appropriate value.

(Note.: Remark received that at WG3#7, in tdoc D63 (secretary minutes), it was stated that the failure message should be added with a list of cause values, with one cause value per failed reconfiguration item. It is not clear what functional impact this have and how it should be coded in the CELL RECONFIGURATION FAILURE message.)

8.2.13.4 Abnormal Conditions

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8.2.14 Cell Deletion

8.2.14.1 General

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

8.2.14.2 Successful Operation

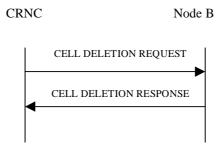


Figure 10: Cell Deletion procedure: Successful Operation

The procedure is initiated with a CELL DELETION REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall remove the cell and any channel within the cell created by the Cell Setup procedure or Common Transport Channel Setup procedure. The states for the cell and the deleted channels shall be set to Not Existing [6].

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 Node B the Node B shall respond with the CELL DELETION RESPONSE message.

8.2.15 Resource Status Indication

8.2.15.1 General

This procedure is used in the following cases:

- 1. When a Local Cell becomes Existing at the Node B, it shall be made available to the RNC
- 2. When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Local Cell shall be withdrawn from the CRNC
- 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 Node B
- 5. When common physical channels and/or common transport channels have changed their capabilities at a Node B
- 6. When a communication control port changed its resource operational state at the Node B
- 7. When a Node B has changed its resource capability at the Node B and/or the local cells

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 CRNC.

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 with the Local Cell Id IE and the Add/Delete Indicator IE set equal to 'Add'.

When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message with the Local Cell Id IE and the Add/Delete Indicator IE set equal 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.

When the capabilities of a Local Cell changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the Local Cell Id. The Add/Delete Indicator IE shall not be included in the message. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

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

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

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 with the Communication Control Port ID IE. The Cause IE in the RESOURCE STATUS INDICAION message shall be set to the appropriate value.

When the resource capabilities of a Node B change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the NodeB Information IE group. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value. If the RESOURCE STATUS INDICATION message contains both the "DL or Global Capacity Credit" and the "UL Capacity Credit" 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.

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 scheduling and provision of system information segments broadcast on the BCCH, to the Node B.

8.2.16.2 Successful Operation

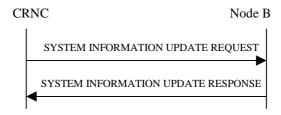


Figure 22: System Information Update procedure: Successful Operation

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

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

If the SYSTEM INFORMATION UPDATE message includes the BCCH Modification Time IE, the updates to the BCCH schedule (possibly consisting of IB additions, IB deletions and IB content updates) indicated in the SYSTEM INFORMATION UPDATE REQUEST message shall be applied by 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/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).

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 SIB SG REP IE and SIB 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 addition to SIB 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 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 the *IB Deletion Indicator* IE value is set to 'Deletion' the Node B shall delete the IB of the type indicated by the *IB Type* IE from the transmission schedule on BCCH.

Information Block update

If the SYSTEM INFORMATION UPDATE REQUEST message contains segments for an IB and there is already an IB in the BCCH schedule with the same IB Type which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group 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

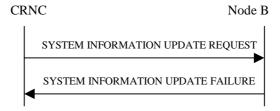


Figure 23: System Information Update procedure: Unsuccessful Operation

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. No changes to the BCCH schedule are made in this case.

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

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

- after having handled a certain MIB/SIB information IE group repetition, an illegal BCCH schedule results;
- if a MIB/SIB information IE group 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 which is not requested to be deleted from the BCCH
 schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM
 INFORMATION UPDATE REQUEST message before the IB addition is indicated;

- if a MIB/SIB information IE group 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;
- if a MIB/SIB information IE group 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 but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated;

Possible cause values are:

Radio Network Layer Cause

- Insufficient physical channel resources
- Unknown C-ID
- SIB Origination in Node B not Supported
- BCCH scheduling error

Miscellaneous Cause

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

In the case of failure, 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.

8.2.16.4 Abnormal Conditions

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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.

8.2.17.2 Successful Operation



Figure 11: Radio Link Setup procedure: Successful Operation

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

Upon reception of 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.

[FDD – The RL Setup procedure can be used to setup one or more radio links. The procedure shall include the establishment of one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for setup of one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs. The Radio Link Setup Request message shall include the required TFS and TFCS for the DCH, DSCH and USCH channels.]

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the *First RLS indicator* IE is set to "first RLS", the Node B shall use a TPC pattern of n* "01" + "1" in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The parameter n shall be set equal to the value received in the *DL TPC pattern 01 count* IE in the Cell Setup procedure. The TPC pattern shall continuously be repeated but shall be restarted at the beginning of every frame with CFNmod4=0. For all other RLs, the Node B shall use a TPC pattern of all "1"'s in the DL until UL synchronisation is achieved on the Uu.]

[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 indicates, "may be combined with already existing RLs", then 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. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Info* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Info* 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.

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 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]. 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]].

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24]].

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 configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[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.]

[FDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code of the RL until either UL synchronisation is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. 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], chapter 5.2.1.2) with DPC MODE=0

and the power control procedure (see 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.].

[TDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code and on each Time Slot of the RL until the UL synchronisation 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], chapter 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.].

If the DSCH Information Group is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.

[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 when those are activated.]

[FDD- If the *Downlink compressed mode method* 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 immediatly activate the indicated Transmisson Gap Pattern Sequences. For each sequence the *TGCFN* refers to the latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in ref. [25].]

[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.]

[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.]

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

If the RLs are successfully setup, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

[FDD - The Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

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

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

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

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be specify for only one of the coordinated DCHs.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].

[FDD – When *Diversity Mode* IE is "STTD", "Closedloop mode1", or "Closedloop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE]

8.2.17.3 Unsuccessful Operation



Figure 12: 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.

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.

If more than one 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

[FDD - If the value of the *Diversity Control Field* IE of one RL is 'Must', but the Node B cannot perform the requested combining, Node B shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK SETUP FAILURE message].

[FDD – When the *Diversity Mode* IE equals "Closedloop mode1" or "Closedloop mode2" and no Closed Loop Timing Adjustment Mode was configured for a cell during cell setup, establishment of the concerning RL shall fail with cause value "No Closed Loop Timing Adjustment Mode configured".]

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated
- Combining Resources not available
- No Closed Loop Timing Adjustment Mode configured
- Invalid CM Settings.

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

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

8.2.17.4 Abnormal Conditions

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8.2.18 Physical Shared Channel Reconfiguration [TDD]

8.2.18.1 General

This procedure is 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.

8.2.18.2 Successful Operation

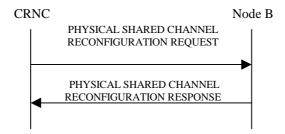


Figure 26: Physical Shared Channel Reconfiguration: Successful Operation

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

In the successful case, 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, and shall make these available to all the current and future DSCH and USCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE:

8.2.18.3 Unsuccessful Operation

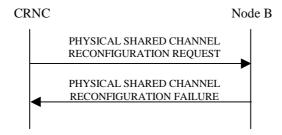


Figure 137: Physical Shared Channel Reconfiguration procedure: Unsuccessful Opreration

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 Value* IE shall be set to an appropriate value.

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

Protocol Cause

- Semantic error

Miscellaneous Cause

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

8.2.18.4 Abnormal Conditions

If the C-ID in the PHYSICAL SHARED CHANNEL RECONGURATION REQUEST message is not existing in the Node B, it shall respond with the PHYSICAL SHARED CHANNEL RECONGURATION FAILURE message with the *Cause* IE = 'unknown C-ID'.

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 chapter 3.1.

8.3.1.2 Successful Operation

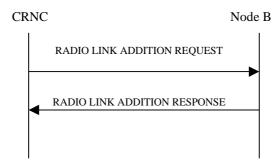


Figure: 28 Radio Link Addition procedure: Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B.

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 *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 indicates, "may be combined with already existing RLs", then 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. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

[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 Channelisation Code of the RL when starting transmission until either UL synchronisation is achieved for the RLS or a DL POWER REQUEST message is received. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. 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], chapter 5.2.1.2) with DPC MODE=0 and the downlink power control procedure (see 8.3.7).].

[TDD – 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 Channelisation Code and on each Time Slot of the RL when starting transmission until the UL synchronisation is achieved for the RL. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. 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], chapter 4.2.3.3).].

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and never transmit with a higher power on any DL Channelisation Code of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied.

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 Channelisation Code of the RL. If no *Minimum DL power* IE is included, any Minimum DL power stored for already existing RLs for this UE shall be applied.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an SSDT Cell Identity IE the Node B may activate SSDT for the concerned new RL, with the indicated cell identity used for that RL.]

[FDD – If the RADIO LINK ADDITION REQUEST includes the *CM Deactivation Flag* IE with value "On", the Node B shall not activate any CM pattern sequence in the new RLs. In all the other cases (Flag set to "Off" or not present), the on going CM measurement (if existing) shall be applied also to the added RLs.]

[FDD- If the RADIO LINK ADDITION REQUEST contains the *Transmission Gap Pattern Sequence Code Information* IE Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code.]

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

[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.]

[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 the case of combining an RL with existing RL(s) the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the Node B shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the coordinated DCHs.

[FDD - Irrespective of SSDT activation, the Node B shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSDT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSDT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSDT capability is supported for this RL, SSDT is activated in the Node B.]

After sending of the RADIO LINK ADDITION RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

[FDD – When *Diversity Mode* IE is "STTD", "Closedloop mode1", or "Closedloop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE]

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined 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].

8.3.1.3 Unsuccessful Operation

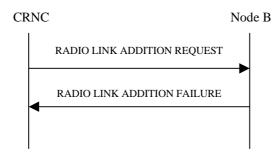


Figure 29: Radio Link Addition procedure: Unsuccessful Operation

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.

If the value of the *Diversity Control Field* IE of one RL is 'Must', but the Node B cannot perform the requested combining, Node B shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK ADDITION FAILURE message.

[FDD – When the *Diversity Mode* IE equals "Closedloop mode1" or "Closedloop mode2" and no Closed Loop Timing Adjustment Mode was configured for a cell during cell setup, establishment of the concerning RL shall fail with cause value "No Closed Loop Timing Adjustment Mode configured"].

[FDD - If the RADIO LINK ADDITION REQUEST contains the *CM Deactivation Flag* IE with the value "On", and at least one of the new RL is added in one cell that has the same UARCFN 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".]

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated
- Combining Resources not available
- No Closed Loop Timing Adjustment Mode configured
- Invalid CM Settings.

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

Semantic error

Miscellaneous Cause

- O&M Intervention

- Unspecified
- Control processing overload
- HW failure

8.3.1.4 Abnormal conditions

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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 all Radio Links related to one UE-UTRAN connection within a Node B.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

8.3.2.2 Successful Operation

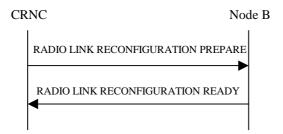


Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add* IE with multiple *DCH specific Info* IEs then, 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.

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 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]. 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]].

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS* IE for the UL 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 - The Node B shall use the *TFCS* IE for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure* IE, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *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 RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* IE, *Time Slot* IE, *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE the Node B shall apply these as the new values, otherwise the old values specified for this DPCH are still applicable.]

[TDD – UL/DL CCTrCH Addition]

 $[TDD - If the RADIO LINK RECONFIGURATION PREPARE \ message \ includes \ any \ UL \ or \ DL \ CCTrCH \ to \ be \ added \ , \\ the \ Node \ B \ shall \ include \ this \ CCTrCH \ in \ the \ new \ configuration.]$

[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.]

SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the SSDT Indication IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

DSCH [TDD - and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

Compressed Mode Preparation:

[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.]

RL Information:

[TDD - If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

8.3.2.3 Unsuccessful Operation

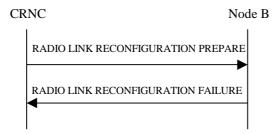


Figure 31: Synchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of coordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration 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.

If more than one 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 RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

- Semantic error

Miscellaneous Cause

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

8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

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 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 RL Reconfiguration procedure at the CFN requested by the CRNC when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC. [FDD – The CFN shall be ignored by Node B if only Transmission Gap Pattern Sequence Information was included in the RL Reconfiguration.] When this procedure has been completed the Prepared Reconfiguration does not exist any more, see chapter 3.1.

[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 CM Configuration Change CFN. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE group repetitions shall be started when the indicated TGCFN elapses. The *CM Configuration Change CFN* in the *Active Pattern Sequence Information* IE and *TGCFN* for each sequence refers to the next coming CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in ref. [25].]

8.3.3.3 Abnormal Conditions

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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 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 RL Reconfiguration Preparation procedure and continue using the old configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see chapter 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 RL 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 chapter 3.1.

8.3.5.2 Successful Operation

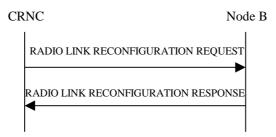


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST 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.

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set* IE for the DL a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a set of coordinated DCHs to be modified, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of coordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a set of coordinated DCHs to be modified, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of coordinated DCHs in the new configuration.

DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Add* IE with multiple *DCH Specific Info* IEs then the *DCH Combination Indicator* IE 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.

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 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]. 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]].

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24]].

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]

If the RADIO LINK RECONFIGURATION REQUEST includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

If the RADIO LINK RECONFIGURATION REQUEST 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is 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 contains the *DL Code Information* IE *group* for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST 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.]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the Node B shall not include this CCTrCH in the new configuration.]

DSCH [TDD - and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes DSCH information for the DSCHs to be added/modified/deleted then the NodeB 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. The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[TDD - USCH Addition/Modification/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes USCH information for the USCHs to be added/modified/deleted then the NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the DCH-information-response IE group shall be included for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, RL Information Response IE group shall be included only for one of the combined Radio Links.

Compressed Mode Preparation:

[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.]

RL Information:

[TDD - If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

8.3.5.3 Unsuccessful Operation

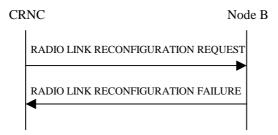


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of coordinated, 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.

If more than one 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 RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

Semantic error

Miscellaneous Cause

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

8.3.5.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated 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.

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, except when the CRNC has requested deletion of the last Radio Link for the Node B Communication Context.

8.3.6.2 Successful Operation

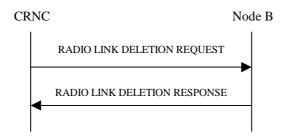


Figure 36: Radio Link Deletion procedure: Successful Operation

The procedure is initiated with a RADIO LINK DELETION REQUEST message sent from the CRNC to the Node B.

Upon receipt of this message, the Node B shall delete the radio link(s) identified in the message and release all associated resources and respond to the CRNC with a RADIO LINK DELETION RESPONSE message.

[FDD – After deletion of the RL, the UL out-of-sync algorithm defined 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].

8.3.6.3 Unsuccessful Operation

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8.3.6.4 Abnormal Conditions

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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 RRC 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.

The Power Adjustment Type IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is *Common*, the Node B shall perform the power adjustment (see below) for all radio links associated with the context identified by the *Node B Communication Context Id* IE using a common DL reference power level.

If the value of the *Power Adjustment Type* IE is *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 value of the *Power Adjustment Type* IE is '*None*', the Node B shall suspend on going power adjustments for all radio links for the UE context.

Power Adjustment

The power balancing adjustment superimposed on the inner loop power control adjustment (see Ref. [10]) shall be such that:

$$\sum P_{bal} = (1-r)(P_{ref} - P_{init})$$
 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, *Pref* is the value of the *DL Reference Power* IE, *Pinit* is the power at the beginning of the adjustment period and *r* is given by the *Adjustment Ratio* IE.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE.

The power adjustments shall be repeated for every adjustment period, 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 chapter 3.1.

8.3.8.2 Successful Operation

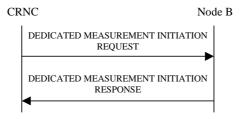


Figure 38: Dedicated Measurement Initiation procedure: Successful Operation

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 request. 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 *Dedicated Measurement Object Type* IE is set to "RL", the measurement reports shall give the measurement result for each of the indicated Radio Links.

[FDD - If the *Dedicated Measurement Object Type* IE is set to "RLS", the measurement reports shall give the measurement result for each of the indicated Radio Link Sets.]

If the *Dedicated Measurement Object Type* IE is set to "ALL RL", the measurement reports shall give the measurement result for each of the current and future Radio Links within the Node B Communication Context.

[FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RLS", the measurement reports shall give the measurement result for each of the existing and future Radio Link Sets within the Node B Communication Context.]

[TDD - If DPCH Id is provided within the RL Information the measurement request shall apply for the requested physical channel individually.]

Report characteristics

The Report Characteristics IE is set to how the reporting of the measurement shall be performed.

If the *Report Characteristics* IE is set to 'On-Demand', the Node B shall return the result of the measurement immediately.

If the *Report Characteristics* IE is set to 'Periodic', the Node B shall periodically initiate a Measurement Report procedure for this measurement, with the requested report frequency.

If the *Report Characteristics* IE is set to 'Event A', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, 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 a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, 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 a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the Node B shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the Node B shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time'

(Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, 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 a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The Node B shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the Node B shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the Node B shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

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 a 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

 $a = 1/2^{(k/2)}$, 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.

The physical layer measurement results are sampled once every measurement period. For most measurements the measurement period and the accuracy are defined in [22] / [23]. For those measurements not covered in [22] / [23], the following measurement period and accuracy are applicable:

Measurement	Accuracy	Measurement period
SIR error	Determined by accuracy of SIR value used	See SIR measurement in
	for calculating the SIR error (see [22]/[23])	[22]/[23]

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.

Only in the case when *Report Characteristics* IE is set to "On-Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall contain the measurement result. In this case also the *Dedicated Measurement Object* IE shall be included if it was included in the request message.

8.3.8.3 Unsuccessful Operation

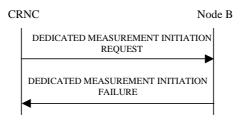


Figure 39: Dedicated Measurement Request procedure: Unsuccessful Operation

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 Object Type* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message the Node B shall regard the Dedicated Measurement Initiation procedure as failed. For measurements not defined in ref. [4] or [5] the Node B shall regard the measurement as failed unless the *Dedicated Measurement Object Type* IE has the following value(s):

Dedicated Measurement Type	Dedicated Measurement Object Type				
SIR Error	"RLS" [FDD] or "RL" [TDD]				

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.

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

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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 a Measurement Reporting procedure. The DEDICATED MEASUREMENT REPORT message shall use the communication control port assigned to the Node B communication context. Unless specified below, the meaning of the parameters are given in other specifications.

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

If the achieved measurement accuracy does not fulfil the given accuracy requirement, the Measurement not available shall be reported.

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 chapter 3.1.

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 measurements corresponding to the received Dedicated Measurement Id.

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 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 no longer can be reported. If the failed measurement was initiated with the *Node B Communication Context ID* IE set to the reserved value "All NBCC" the Node B shall terminate the measurement reporting of the measurement corresponding to the Measurement Id provided in the DEDICATED MEASUREMENT FAILURE INDICATION message.

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 Node B to indicate a failure in one or more Radio Links or Radio Link Sets.

8.3.12.2 Successful Operation



Figure 43: Radio Link Failure procedure: Successful Operation

When Node B detects that one or more Radio Link or Radio Link Sets is no longer available, it sends the RADIO LINK FAILURE INDICATION message to CRNC indicating the failed Radio Links or Radio Link Sets with the most appropriate cause values in the *Cause* IE. If the failure concerns one or more individual Radio Links the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE group. [FDD - If the failure concerns one or more Radio Link Sets the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation, the message shall be sent when indicated by the UL out-of-sync algorithm defined in [10] and [21]. [FDD – The algorithm 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].

Typical cause values are:

Radio Network Layer Causes:

- Synchronisation Failure

Miscellaneous Causes:

- Control Processing Overload
- HW Failure
- O&M Intervention

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 Radio Links or Radio Link Sets.

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 sync detection algorithm defined in [10 and [21]. [FDD – The algorithm in [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].

[TDD - If the re-established synchronisation concerns one or more individual Radio Links the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE group.] [FDD - If the re-established synchronisation concerns one or more Radio Link Sets the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

8.3.13.3 Abnormal Condition

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8.3.14 Compressed Mode Command [FDD]

8.3.14.1 General

The Compressed Mode Command procedure is used to activate the compressed mode in the Node B for one UE-UTRAN connection.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

8.3.14.2 Successful Operation



Figure 47: Compressed Mode Command procedure, Successful Operation

The Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CM Configuration Change CFN requested by CRNC when receiving COMPRESSED MODE COMMAND message from the CRNC. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE group repetitions shall be started when the indicated TGCFN elapses. The CM Configuration Change CFN in the *Active Pattern Sequence Information* IE and *TGCFN* for each sequence refers to the next coming CFN with that value.

If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [25].

8.3.14.3 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 to report detected errors in one incoming message, provided they cannot be reported by an appropriate failure message.

8.4.1.2 Successful Operation

When the conditions defined in chapter 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node.

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 available. 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 available.

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 Content

9.1.1 General

Section 9.1 presents the contents of NBAP messages in tabular format. The corresponding ASN.1 definition is presented in section 9.3. In case there is contradiction between the tabular format in section 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.

9.1.2 Message Contents

9.1.2.1 Presence

An information element can be of the following types:

M	The information element is mandatory, i.e. always present in the message
0	The information element is optional, i.e. may or may not be present in the message
	independently on the presence or value of other information elements in the same
	message
С	The presence of the information element is conditional to the presence or to the value of another information element, as reported in the table below the message containing the
	explanation of the condition

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 <u>if the group is present.</u>

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.				

9.1.3 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					YES	ignore
channel to be configured						J
>Secondary CCPCH					YES	reject
>Secondary CCPCH		1				•
>>Common Physical Channel ID	М		9.2.1.13		_	
>>FDD S-CCPCH Offset	М		9.2.2.15	Corresponds to [7]: _S -	-	
. Di Caramblina Codo	M		0.2.2.42	CCPCH,k		
>>DL Scrambling Code			9.2.2.13		_	
>>FDD DL Channelisation Code Number	М		9.2.2.14		<u>-</u>	
>>TFCS	М		9.2.1.54	For the DL.	-	
>>Secondary CCPCH Slot Format	M		9.2.2.43		_	
>>>TFCI Presence	C – SlotFormat		9.2.1.57		-	
>>Multiplexing Position	М		9.2.2.23		1	
>>Power Offset Information		1			1	
>>>PO1	М		Power Offset	Power offset for the TFCI bits	-	
>>>PO3	M		Power Offset	Power offset for the pilot bits	-	
>>STTD Indicator	М		9.2.2.47		_	
>>FACH Parameters	C- choiceCh	0 <ma xnoofF ACHs></ma 			GLOBAL	reject
>>>Common transport channel ID	М		9.2.1.14		-	
>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	M		9.2.1.61		_	
>>>ToAWE	M		9.2.1.60		_	
>>>Max FACH Power	М		DL Power 9.2.1.21	Maximum allowed power on the	-	
>>PCH Parameters	C- choiceCh	01		FACH.	YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		_	
>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	M		9.2.1.60		_	
>>>PCH Power	M		DL Power		_	

			9.2.1.21			
>>>PICH Parameters		1	9.2.1.21		_	
>>>Common Physical	M	'	9.2.1.13		_	
Channel ID	IVI		3.2.1.13		_	
>>>DL Scrambling Code	М		9.2.2.13		_	
>>>FDD DL	M		9.2.2.14		_	
Channelisation Code						
Number						
>>>PICH Power	М		DL Power	Power to be	_	
			9.2.1.21	used on the		
				PICH.		
>>>>PICH Mode	М		9.2.2.26	Number of	_	
				PI per frame		
>>>STTD Indicator	M		92.2.48		_	
>PRACH					YES	reject
>PRACH		1				
>>Common Physical	M		9.2.1.13		_	
Channel ID						
>>Scrambling Code Number	M		9.2.2.42		_	
>>TFCS	М		9.2.1.58	For the UL.	_	
>>Preamble Signatures	M		9.2.2.31		_	
>>Allowed Slot Format		1 <ma< td=""><td></td><td></td><td>_ </td><td></td></ma<>			_	
Information		xnoofSI				
		otForm				
		atsPRA				
		CH>				
>>>RACH Slot Format	M		9.2.2.37		_	
>>RACH Sub Channel	М		9.2.2.38		_	
Numbers						
>>Puncture Limit	M		9.2.1.50	For the UL	_	
>>Preamble threshold	M		9.2.2.32		-	
>>RACH Parameters		1			YES	reject
>>>Common Transport	M		9.2.1.14		_	
Channel ID			0.04.50	- 4 111		
>>>Transport Format Set	M	4	9.2.1.59	For the UL.	_	
>>>AICH Parameters	N4	1	0.0.4.40		_	
>>>Common Physical	M		9.2.1.13		_	
Channel ID	N 4		0.0.0.40			
>>>>DL Scrambling Code >>>>AICH Transmission	M		9.2.2.13 9.2.2.1		_	
	IVI		9.2.2.1		_	
Timing >>>>FDD DL	M		9.2.2.14		_	
Channelisation Code	IVI		9.2.2.14		_	
Number						
>>>AICH Power	M		DL Power		_	
	***		9.2.1.21			
>>>STTD Indicator	M		9.2.2.47		_	
>PCPCHes					YES	Reject
>>CPCH Parameters		1			-	-,
>>>Common Transport	М				_	
Channel ID						
>>>Transport Format Set	М			For the UL.	_	
>>>AP Preamble	М		СРСН		_	
Scrambling Code			Scrambling			
-			Code			
			Number			
>>>CD Preamble	М		CPCH		_	
Scrambling Code			Scrambling			
•						

	1	1	0-4-	1		
			Code			
TEGG	1.4		Number	F 41 111		
>>>TFCS	M			For the UL	_	
>>>CD Signatures	0		Preamble	Note: When	_	
			Signatures	not present,		
				all CD		
				signatures		
				are to be		
				used.		
>>>CD Sub Channel	C-CDSig				_	
Numbers	0 02 0.9					
>>>Puncture Limit	М			For the UL	_	
>>>CPCH UL DPCCH Slot	M			For UL	_	
Format	IVI			CPCH	_	
Format						
				message		
				control part		
>>>UL SIR	M		UL SIR		_	
>>>Initial DL transmission	M		DL Power		_	
Power	1					
>>>Maximum DL Power	M		DL Power		_	
>>>Minimum DL Power	M		DL Power			
>>>PO2	М		Power	Power offset	_	
			Offset	for the TPC		
			0001	bits		
>>>PO3	М		Power	Power offset	_	
/// 03	IVI		Offset		_	
			Oliset	for the pilot		
EDD TDO DI Otar Cira				bits		
>>>FDD TPC DL Step Size	M				_	
>>>N_Start_Message	M				_	
>>>N_EOT	M				_	
>>>Channel Assignment	M				_	
Indication						
>>>CPCH Allowed Total	M				_	
Rate						
>>>PCPCH Channel		1 <ma< td=""><td></td><td></td><td>_</td><td></td></ma<>			_	
Information		xnoofP				
		CPCHs				
		>				
>>>>Common Physical	М				_	
Channel ID	'''					
	M			For UL		
>>>>CPCH Scrambling	IVI				_	
Code Number	100			PCPCH		
>>>>DL Scrambling Code	М			For DL	_	
	1			CPCH		
	1			message		
				part		
>>>FDD DL	M			For DL	_	
Channelisation Code	1			CPCH		
Number	1			message		
	1			part		
>>>PCP Length	М				_	
>>>UCSM Information	C-NCA	1			_	
>>>>Min UL	M	<u> </u>			_	
Channelisation Code	.**					
Length						
	N4			1		
>>>>NF_max	M			1	_	
>>>>Channel	1	0 <ma< td=""><td></td><td></td><td>_</td><td></td></ma<>			_	
Request Parameters	l	xAPSig		<u> </u>		

		Num>				
>>>>AP Preamble	М				_	
Signature						
>>>>AP Sub Channel	0				_	
Number						
>>>VCAM Mapping	C-CA	1 <ma< td=""><td></td><td>Refer to TS</td><td>_</td><td></td></ma<>		Refer to TS	_	
Information		xnoofL		[18]		
		en>				
>>>Min UL	М				_	
Channelisation Code						
Length						
>>>NF_max	M				_	
>>>Max Number of	М				_	
PCPCHes		1				
>>>SF Request		1 <ma< td=""><td></td><td></td><td>_</td><td></td></ma<>			_	
Parameters		xAPSig Num>				
>>>>AP Preamble	M	ivuffi>				
Signature	IVI				_	
>>>>AP Sub Channel	0				_	
Number					_	
>>>AP-AICH Parameters		1			_	
>>>Common Physical	М	†			_	
Channel ID						
>>>DL Scrambling Code	М	1			_	
>>>FDD DL	М				_	
Channelisation Code						
Number						
>>>AP-AICH Power	М		DL Power		_	
>>>CSICH Power	М		DL Power	For CSICH	_	
				bits at end of		
				AP-AICH		
		<u> </u>		slot		
>>>STTD Indicator	0	<u> </u>			_	
>>>CD/CA-ICH		1			_	
Parameters		<u> </u>				
>>>>Common Physical	М				_	
Channel ID		1				
>>>>DL Scrambling Code	M	1			_	
>>>>FDD DL	М				_	
Channelisation Code						
Number	N 4	1	DI Davisa			
>>>CD/CA-ICH Power	M	+	DL Power		_	
>>>STTD Indicator	0				ı	

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
ChoiceCh	One of the channels FACH or PCH or both must be
	present.
CDSig	The IE may be present if the Available CD Signatures
	is present.
CA	The IE must be present if the Channel Assignment
	Indication is set to 'CA Active'.
NCA	The IE must be present if the Channel Assignment
	Indication is set to 'CA Inactive'.

Range bound	Explanation
MaxnoofFACHs	Maximum number of FACHs that can be defined on a
	Secondary CCPCH.
MaxnoofPCPCHs	Maximum number of PCPCHs for a CPCH
MaxnoofLen	Maximum number of Min UL Channelisation Code
	Length
MaxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH
MaxAPSigNum	Maximum number of AP Signatures.

9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	-
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE common physical					YES	ignore
channels to be configured						J
Secondary CCPCHs					YES	reject
>CCTrCH ID	М		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	-	
>TFCS	М		9.2.1.5	For DL CCTrCH supporting one or several Secondary CCPCHs	_	
>Secondary CCPCH		1 <ma xnoofS - CCPC Hs></ma 			GLOBAL	reject
>>Common physical channel ID	М		9.2.1.13		_	
>>TDD Channelisation Code	М		9.2.3.19		_	
>>Time Slot	М		9.2.3.23		_	
>>Burst Type	М		9.2.3.2	Long or short midamble	-	
>>Midamble shift	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		_	
>>S-CCPCH Power	М		DL Power 9.2.1.21		_	
>>FACH	C ChoiceCh	0 <ma xnoofF</ma 			GLOBAL	reject

		ACHs>				
>>>Common transport channel ID	М		9.2.1.61		_	
>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	M		9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		_	
>>PCH	C ChoiceCh	01			GLOBAL	reject
>>>Common transport channel ID	M		9.2.1.13		_	
>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		_	
>>>PICH Parameters		1			_	
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>TDD Channelisation Code	М		9.2.3.19		_	
>>>>Time Slot	М		9.2.3.23		_	
>>>Burst type	0		9.2.3.2		_	
>>>Midamble shift	М		9.2.3.7		_	
>>>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>>Repetition period	М		9.2.3.16		_	
>>>Repetition length	M		9.2.3.15		_	
>>>>Paging Indicator Length	M		9.2.3.8		_	
>>>PICH Power	М		DL Power 9.2.1.21		YES	reject
PRACH						
>PRACH	М	1				
>>Common physical channel ID	М		9.2.1.13			
>>Time Slot	М		9.2.3.23			
>>TDD Channelisation Code	М		9.2.3.19			
>>Max PRACH Midamble Shifts	0		9.2.3.6			
>>PRACH Midamble	М		9.2.3.14			
>>RACH	171		J.L.U. 17			
>>>Common transport channel ID	М		9.2.1.13		-	

Condition	Explanation
ChoiceCh	One of the channels FACH or PCH or both must be
	present.

Range bound	Explanation
MaxnoofS-CCPCHs	Maximum number of Secondary CCPCHs per
	CCTrCH.
MaxnoofCCTrCHs	Maximum number of CCTrCHs that can be defined in
	a cell.
MaxnoofFACHs	Maximum number of FACHs that can be defined on a
	Secondary CCPCH.

9.1.4 COMMON TRANSPORT CHANNEL SETUP 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		_	
FACH Parameters		0 <ma xnoofF ACHs></ma 		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>Common Transport Channel ID	М		9.2.1.14		_	
>Binding ID	М		9.2.1.4		_	
>Transport layer address	М		9.2.1.63		_	
PCH Parameters		01		The PCH Parameters may be combined with FACH Parameters	GLOBAL	ignore
>Common transport channel ID	М		9.2.1.14		-	
>Binding ID	М		9.2.1.4		_	
>Transport layer address	М		9.2.1.63		_	
RACH parameters		01		The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	GLOBAL	ignore
>Common transport channel ID	М		9.2.1.14		_	
>Binding ID	М		9.2.1.4		_	
>Transport layer address	М		9.2.1.63		_	-
CPCH parameters		01		The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters	GLOBAL	ignore
>Common transport channel ID	М				_	
>Binding ID	М				_	
>Transport layer address	М				_	-
Criticality Diagnostics	0		9.2.1.17		YES	ignore

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

9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	_
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	_
Cause	М		9.2.1.6		YES	ignore
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE common physical channel to be					YES	reject
reconfigured					VEC	unin nt
>Secondary CCPCH					YES	reject
>>FACH parameters		0 <maxfa CHCell></maxfa 			GLOBAL	reject
>>>Common	М		9.2.1.14		_	
Transport Channel ID						
>>>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 9.2.1.21	Power to be 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		_	15,001
>>>PICH Power	М		DL Power 9.2.1.21	Power to be used on the PICH.	Ι	
>PRACH					YES	reject
>>PRACH Parameters		0 <mexpr ACHCell></mexpr 			GLOBAL	reject
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>Preamble Signatures	М		9.2.2.31		-	
>>>Allowed Slot Format Information		0 <maxno ofSlotForm atsPRACH ></maxno 			-	
>>>>RACH Slot Format	М		9.2.2.37		-	
>>>RACH Sub	0		9.2.2.38		_	
Channel Numbers >>AICH Parameters		0 <maxpr< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxpr<>			GLOBAL	reject
AIGH Farailletti 5		U\IVIAXFT	1	1	GLODAL	16,601

		ACHCell>				
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>AICH Power	M		DL Power 9.2.1.21	Power to be used on the AICH.	-	
>CPCH					YES	reject
>>CPCH Parameters		0 <maxno ofCPCHs></maxno 			GLOBAL	reject
>>>Common Transport Channel ID	M				_	
>>>UL SIR	0				_	
>>>Initial DL transmission Power	0		DL Power		Г	
>>>Maximum DL Power	0		DL Power		-	
>>>Minimum DL Power	0		DL Power		-	
>>AP-AICH Parameters		0 <maxno ofCPCHs></maxno 			GLOBAL	reject
>>>Common Physical Channel ID	M				-	
>>>AP-AICH Power	М		DL Power		_	
>>>CSICH Power	0		DL Power	For CSICH bits at end of AP-AICH slot	_	
>>CD/CA-ICH		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
Parameters >>>Common Physical Channel ID	М	ofCPCHs>			_	
>>>CD/CA-ICH Power	М		DL Power		-	

Range bound	Explanation
MaxFACHCell	Maximum number of FACHs that can be defined in a
	Cell
MaxnoofCPCHs	Maximum number of CPCHs that can be defined in a
	Cell
MaxPRACHCell	Maximum number of PRACHs and AICHe 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	М		9.2.1.45		ı	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		ı	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Secondary CCPCH parameters		0 1			YES	reject

>CCTrCH ID	М		9.2.3.3	For DL	_	
				CCTrCH		
				supporting		
				one or		
				several		
				Secondary		
				CCPCHs		
>Secondary CCPCHs		0			GLOBAL	reject
to be configured		<maxnoofs< td=""><td></td><td></td><td></td><td>,</td></maxnoofs<>				,
		CCPCHs>				
>>Common physical	М		9.2.1.13		_	
channel ID						
>>S-CCPCH Power	M		9.2.1.21	DL power	_	
PICH Parameters		0 1			YES	reject
>Common physical	М		9.2.1.13		_	
channel ID						
>PICH Power	M		9.2.1.21		_	
FACH parameters		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofFACHs>				
>Common Transport	М		9.2.1.14		_	
Channel ID						
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60			
PCH parameters		0 1			GLOBAL	reject
>Common Transport Channel ID	M		9.2.1.14		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	

Range bound	Explanation			
MaxFACHCell	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		ı	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		1	
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	М		9.2.1.62		_	
C-ID	М		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	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.11 BLOCK RESOURCE 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		_	-
C-ID	M		9.2.1.9		YES	reject
Blocking Priority Indicator	M		9.2.1.5		YES	reject
Shutdown Timer	C- BlockNormal				YES	reject

Condition	Explanation				
BlockNormal	The information element is present when the Blocking				
	Priority Indicator IE indicates 'Normal Priority'.				

9.1.12 BLOCK RESOURCE RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.13 BLOCK RESOURCE FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		ı	
Cause	М		9.2.1.6		YES	ignore
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.14 UNBLOCK RESOURCE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		1	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		- 1	
C-ID	М		9.2.1.9		YES	ignore

9.1.15 AUDIT REQUIRED INDICATION

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

9.1.16 AUDIT REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	

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		_	,
Node B Information		1				
>DL or Global Capacity	М		9.2.2.12			
Credit						
>UL Capacity Credit	0		9.2.2.60			
>Common Channels	M		9.2.2.3			
Capacity Consumption						
Law						
>Dedicated Channels	М		9.2.2.6			
Capacity Consumption						
Law						
Cell Information		0 < maxCellin NodeB >			EACH	ignore
>C-ID	M	Nodeb >	9.2.1.9		_	
>Configuration	M	1	9.2.1.16			
Generation ID			0.2.1.10			
>Resource Operational State	М		9.2.1.52		-	
>Availability Status	М		9.2.1.2		_	
>Local Cell ID	М		9.2.1.38	The local cell that the cell is configured on		
>Maximum DL Power Capability	FFS		9.2.1.39		-	
>Minimum Spreading Factor	FFS		9.2.1.47		_	
>Primary SCH Information		01			YES	ignore
>>Common Physical Channel ID	М		9.2.1.13		_	
>>Resource Operational State	М		9.2.1.52		_	
>>Availability Status	M	1	9.2.1.2		_	
>Secondary SCH Information		01			YES	ignore
>>Common Physical Channel ID	М		9.2.1.13		-	
>>Resource Operational State	M		9.2.1.52		_	
>>Availability Status	М		9.2.1.2		_	
>Primary CPICH Information		01			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		_	
>>Resource Operational State	M		9.2.1.52		_	
>>Availability Status	M		9.2.1.2		_	
>Secondary CPICH Information		0 <maxsc PICHCell></maxsc 			EACH	ignore
>>Common Physical Channel ID	М		9.2.1.13		_	
>>Resource Operational State	М		9.2.1.52		-	

>>Availability Status	M		9.2.1.2		_	
>Primary CCPCH		01			YES	ignore
Information					0	.g
>>Common Physical	М		9.2.1.13		_	
Channel ID						
>>Resource	М		9.2.1.52		_	
Operational State						
>>Availability Status	М		9.2.1.2		_	
>BCH Information		01			YES	ignore
>>Common Transport	М	0	9.2.1.13			ignore
Channel ID	IVI		9.2.1.13		_	
>>Resource	М		9.2.1.52		_	
Operational State	IVI		9.2.1.52		_	
>>Availability Status	М		9.2.1.2			
>Secondary CCPCH	IVI	0	3.2.1.2			
Information		0 <maxsc< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxsc<>			EACH	ignore
Illiorillation		CPCHCell				
		>				
>>Common Physical	M		9.2.1.13		_	
Channel ID						
>>Resource	M		9.2.1.52		_	
Operational State						
>>Availability Status	M		9.2.1.2		_	
>PCH Information		01			EACH	ignore
>>Common Transport	М		9.2.1.14			- ig
Channel ID	IVI		0.2			
>>Resource	М		9.2.1.52			
Operational State	IVI					
>>Availability Status	М		9.2.1.2		_	
>PICH Information	IVI	01	0.2			:
		01	0.04.40		YES	ignore
>>Common Physical	M		9.2.1.13		_	
Channel ID			0.04.50			
>>Resource	М		9.2.1.52		_	
Operational State						
>>Availability Status	М		9.2.1.2			
>FACH Information		0 <maxfa< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxfa<>			EACH	ignore
		CHCell>				
>>Common Transport	М		9.2.1.14		_	
Channel ID						
>>Resource	М		9.2.1.52		_	
Operational State						
>>Availability Status	M		9.2.1.2		_	
>PRACH Information		0 <maxpr< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxpr<>			EACH	ignore
		ACHCell>			2, (0)	ignore
>>Common Physical	N 4	AOLIGEII>	9.2.1.13			
Channel ID	М		3.2.1.13		_	
>>Resource	N #		9.2.1.52			
Operational State	М		0.2.1.02		_	
>>Availability Status	N 4		9.2.1.2	1		<u> </u>
_	M	+	V.E. 1.E			 .
>RACH Information	1	0 <maxra< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxra<>			EACH	ignore
		CHCell>				
>>Common Transport	M		9.2.1.14		_	
Channel ID	ļ					1
>>Resource	М		9.2.1.52		_	
Operational State						
>>Availability Status	М		9.2.1.2	<u> </u>	_	
>AICH Information		0 <maxra< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxra<>			EACH	ignore
	1	CHCell>				.9
>>Common Physical	N 4	OI IOGII>	0.2.4.42	1		+
Channel ID	М		9.2.1.13		_	
>>Resource	N #		02452			
Operational State	М		9.2.1.52		-	
>>Availability Status	N #		0242			
	M		9.2.1.2	1		
>PCPCH Information		0 <maxpc< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxpc<>			EACH	ignore

		PCHCell>			
>>Common Physical	M	PURCell>			
Channel ID	IVI			_	
>>Resource	М			_	
Operational State					
>>Availability Status	M			_	
>CPCH Information		0 <maxcp< td=""><td></td><td>EACH</td><td>ignore</td></maxcp<>		EACH	ignore
		CHCell>			
>>Common Transport	M			_	
Channel ID					
>>Resource Operational State	M			_	
>>Availability Status	M			_	
>AP-AICH Information	IVI	0 <maxcp< td=""><td></td><td>EACH</td><td>ignoro</td></maxcp<>		EACH	ignoro
7 ii 7 ii 7 ii 1 ii 1 ii 1 ii 1 ii 1 ii		CHCell>		EACH	ignore
>>Common Physical	M	Criceii>			
Channel ID	IVI				
>>Resource	М				
Operational State					
>>Availability Status	М				
>CD/CA-ICH		0 <maxcp< td=""><td></td><td>EACH</td><td>ignore</td></maxcp<>		EACH	ignore
Information		CHCell>			
>>Common Physical Channel ID	M				
>>Resource	M				
Operational State	IVI				
>>Availability Status	М				
>SCH Information		01		YES	ignore
>>Common Physical	М		9.2.1.14	_	3
Channel ID					
>>Resource	M		9.2.1.52	_	
Operational State					
>>Availability Status Communication Control	M		9.2.1.2		
Port Information		0		EACH	ignore
1 ort illiormation		<maxccpi< td=""><td></td><td></td><td></td></maxccpi<>			
>Communication Control		nNodeB>	0.04.45		
Port ID	M		9.2.1.15	_	
>Resource Operational	М		9.2.1.52	_	
State	IVI		0.2.1.02		
>Availability Status	М		9.2.1.2	_	
Local Cell Information		0		EACH	ignore
		<maxlocal< td=""><td></td><td></td><td>_</td></maxlocal<>			_
		CellinNode			
		B>			
>Local Cell ID	М		9.2.1.38	_	
>DL or Global Capacity	М		9.2.2.12		
Credit					
>UL Capacity Credit	0		9.2.2.60		
>Common Channels	М		9.2.2.3		
Capacity Consumption					
Law					
>Dedicated Channels	M		9.2.2.6		
Capacity Consumption					
Law					
>Maximum DL Power	0		9.2.1.39	_	
Capability					
Criticality diagnostics	0		9.2.1.17	YES	ignore

Range bound	Explanation
MaxCellinNodeB	Maximum number of Cell that can be configured in Node B
MaxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a Cell
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a Cell

9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		ı	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		ı	
Measurement Id	M		9.2.1.42		YES	reject
Common Measurement Object Type	M		9.2.1.10		YES	reject
CHOICE Common Measurement Object Type					YES	ignore
>"Cell"					YES	reject
>>C-ID	M		9.2.1.9		ı	
>>Time Slot	0		9.2.3.23	TDD only	ı	
>"RACH"					YES	reject
>>C-ID	M		9.2.1.9		ı	
>>Common transport channel ID	М		9.2.1.14		I	
>"CPCH"				FDD only	YES	reject
>>C-ID	M				ı	
>>Common transport channel ID	M				ı	
>>Spreading Factor	0		Minimum UL Channelisa tion Code Length		_	
Common Measurement Type	М		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

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		ı	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		ı	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type				Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>"Cell"					YES	ignore
>>Common Measurement value	М		9.2.1.12		_	
>"RACH"					YES	ignore
>>Common Measurement Value	М		9.2.1.12		_	
>"CPCH"				FDD only	YES	Ignore
>>Common Measurement Value	М				_	
SFN	0			Common Measuremen t Time Reference	YES	ignore
Criticality Diagnostics	0		9.2.1.17		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	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction Id	М		9.2.1.62		_	
Measurement Id	М		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		1	
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				Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>"Cell"					YES	ignore
>>CHOICE Measurement Availability Indicator						
>>"Measurement Available"					YES	ignore
>>>Common Measurement value	M		9.2.1.12		I	
>>>"Measurement not Available"			NULL		YES	ignore
>"RACH"					YES	ignore
>>CHOICE Measurement Availability Indicator						
>>>"Measurement Available"					YES	ignore
>>>Common Measurement Value	М		9.2.1.12		_	
>>>"Measurement not Available"			NULL		YES	ignore
>"CPCH"				FDD only	YES	Ignore
>>Common Measurement Value	М				_	
SFN	0			Common Measuremen t Time Reference	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	M		9.2.1.62		_	
Measurement Id	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore

9.1.24 CELL SETUP REQUEST

9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE type and 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	М		9.2.1.65	Corresponds to Nu [14]	YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nd [14]	YES	reject

Maximum transmission	M		9.2.1.40	YES	reject
power	IVI		3.2.1.40	120	reject
Closed Loop Timing	0			YES	reject
Adjustment Mode					,
Primary scrambling code	М		9.2.2.34	YES	reject
Synchronisation		1		YES	reject
Configuration					
>N_INSYNC_IND	M			_	
>N_OUTSYNC_IND	M			-	
>T_RLFAILURE	M			_	
DL TPC pattern 01 count	M			YES	reject
Primary SCH Information		1		YES	reject
>Common Physical	М		9.2.1.13	_	
Channel ID >Primary SCH Power	M		DI Davis		
>Primary SCH Power	IVI		DL Power	_	
>TSTD Indicator	M		9.2.1.21 9.2.1.64		
Secondary SCH	IVI	1	9.2.1.04	YES	reject
Information		'		TES	reject
>Common Physical	M		9.2.1.13	_	
Channel ID	IVI		9.2.1.13		
>Secondary SCH power	М		DL Power	_	
Forestinain, Corr politic			9.2.1.21		
>TSTD Indicator	М		9.2.1.64	_	
Primary CPICH		1		YES	reject
Information					.,
>Common Physical	М		9.2.1.13	_	
Channel ID					
>Primary CPICH power	М		9.2.2.33	_	
>Transmit Diversity Indicator	М		9.2.2.53	_	
Secondary CPICH		0 <maxsc< td=""><td></td><td>YES</td><td>reject</td></maxsc<>		YES	reject
Information		PICHCell>			
>Common Physical	M		9.2.1.13	_	
Channel ID					
>DL Scrambling code	M		9.2.2.13	_	
>FDD DL Channelisation Code Number	М		9.2.2.14	_	
>Secondary CPICH Power	M		DL Power	_	
			9.2.1.21		
>Transmit Diversity	M		9.2.2.53	_	
Indicator					
Primary CCPCH		1		YES	reject
Information Physical	N4		0.04.40		1
>Common Physical Channel ID	M		9.2.1.13	-	
>BCH Information		1	 		-
>>Common Transport	M		9.2.1.14		
Channel ID				_ -	
>>BCH Power	М		DL Power 9.2.1.21	_	
>STTD Indicator	М		9.2.2.47		
Limited power increase		1		YES	reject
information					
>Power_Raise_Limit	M			_	
>DL_power_averaging_wi	М			_	
ndow_size					

Range bound	Explanation
MaxSCPICHCell	Maximum number of Secondary CPICH that can be
	defined in a Cell.

9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	•		
Message discriminator	М		9.2.1.45		_	
Message Type	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-ld	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nt [15]	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	On DCHs	YES	reject
Sync Case	М		9.2.3.18		YES	reject
Synchronisation Configuration		1			YES	reject
>N_INSYNC_IND	M				_	
>N_OUTSYNC_IND	М				_	
>T_RLFAILURE	М				_	
DPCH Constant Value	M		Constant Value		YES	reject
PUSCH Constant Value	М		Constant Value		YES	reject
PRACH Constant Value	М		Constant Value		YES	reject
SCH Information		1			YES	reject
>Common physical channel ID	М		9.2.1.13		_	-
>CHOICE Sync Case						
>>Case 1					YES	reject
>>>Time Slot	М		9.2.3.23		_	
>>Case 2					YES	reject
>>>SCH Time Slot	М		9.2.3.17		_	
>SCH Power	M		DL Power 9.2.1.21		_	
>TSTD Indicator	M		9.2.1.64		_	
PCCPCH Information		1			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	M		9.2.3.15		_	
>PCCPCH Power	M		9.2.3.9		_	
>Block STTD Indicator	M		9.2.3.1		_	
Time Slot Configuration		1 15			GLOBAL	reject
>Time Slot	M	-	9.2.3.23		_	,
>Time Slot Status	М		9.2.3.25		_	
>Time Slot Direction	М		9.2.3.24		_	

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	М		9.2.1.6		YES	ignore
Criticality diagnostics	0	•	9.2.1.17		YES	ignore

9.1.27 CELL RECONFIGURATION REQUEST

9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and reference	description		Criticality
Magaza dispriminator	M		9.2.1.45		_	
Message discriminator	M		9.2.1.46		YES	roigot
Message Type						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
Maximum transmission	0		9.2.1.40		YES	reject
power					\/50	
Synchronisation		0,1			YES	reject
Configuration						
>N_INSYNC_IND	M				_	
>N_OUTSYNC_IND	M				_	
>T_RLFAILURE	M	<u> </u>				
Primary SCH Information		0,1			YES	reject
>Common Physical	M		9.2.1.13		_	
Channel ID						
>Primary SCH power	М		DL Power 9.2.1.21		_	
Secondary SCH		0,1			YES	reject
Information		- ,			_	-,
>Common Physical Channel ID	М		9.2.1.13		_	
>Secondary SCH power	М		DL Power 9.2.1.21		_	
Primary CPICH Information		0,1			YES	reject
>Common Physical	М		9.2.1.13		_	
Channel ID	'''		0.2			
>Primary CPICH power	М		9.2.2.33		_	
Secondary CPICH		0 <maxsc< td=""><td>0.2.2.00</td><td></td><td>YES</td><td>reject</td></maxsc<>	0.2.2.00		YES	reject
Information		PICHCell>			0	. 0,001
>Common Physical	М		9.2.1.13		_	
Channel ID						
>Secondary CPICH Power	М		DL Power 9.2.1.21		_	
Primary CCPCH Information		0,1			YES	reject
>BCH Information		1			_	
>>Common Transport Channel ID	М		9.2.1.14		_	
>>BCH Power	М		DL Power 9.2.1.21		_	

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-ld	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Synchronisation Configuration		0,1			YES	reject
>N_INSYNC_IND	M				_	
>N_OUTSYNC_IND	M				_	
>T_RLFAILURE	M				_	
SCH Information		0,1			YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>SCH Power	М		DL Power 9.2.1.21		_	
PCCPCH Information		0,1			YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>PCCPCH Power	М		9.2.3.9		_	
Maximum Transmission Power	0		9.2.1.40		YES	reject
DPCH Constant Value	0		Constant Value		YES	reject
PUSCH Constant Value	0		Constant Value		YES	reject
PRACH Constant Value	0		Constant Value		YES	reject
Time Slot Configuration		115			GLOBAL	reject
>Time Slot	M		9.2.3.23		_	•
>Time Slot Status	M		9.2.3.25		_	
>Time Slot Direction	М		9.2.3.24		_	

9.1.28 CELL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.29 CELL RECONFIGURATION FAILURE

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

9.1.30 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	М		9.2.1.9		YES	reject

9.1.31 CELL DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
Indication Type	М		9.2.1.36		YES	ignore
CHOICE Indication Type					YES	ignore
>"No Failure"					YES	ignore
>>Node B Information		1				
>>>DL or Global	М		9.2.2.12			
Capacity Credit						
>>>UL Capacity Credit	0		9.2.2.60			
>>>Common Channels	М		9.2.2.3			
Capacity Consumption						
Law						
>>>Dedicated	M		9.2.2.6			
Channels Capacity						
Consumption Law						
>>Local Cell		1 <max< td=""><td></td><td></td><td>EACH</td><td>ignore</td></max<>			EACH	ignore
Information		LocalCellin NodeB >				
>>>Local Cell ID	M		9.2.1.58		_	
>>>Add/Delete	M		9.2.1.1		_	
Indicator						
>>>DL or Global	C-add		9.2.2.12			
Capacity Credit						
>>>UL Capacity Credit	0		9.2.2.60			
>>>Common Channels	C-add		9.2.2.3			
Capacity Consumption						
Law						
>>>Dedicated	C-add		9.2.2.6			
Channels Capacity						
Consumption Law						
>>>Maximum DL	M		9.2.1.39		_	
Power Capability					\/=0	
>"Service Impacting"					YES	ignore
>>Node B Information		01				
>>>DL or Global	0		9.2.2.12			
Capacity Credit			0.0.00			
>>>UL Capacity Credit	0		9.2.2.60		E 4 OU I	
>>Local Cell Information		0 <maxlocal CellinNode B></maxlocal 			EACH	ignore
>>>Local Cell ID	М		9.2.1.38		_	
>>>DL or Global	0		9.2.2.12			
Capacity Credit						
>>>UL Capacity Credit	0		9.2.2.60			
>>>Maximum DL	0		9.2.1.39		_	
Power Capability						
>>Communication		0			EACH	ignore
Control Port		<maxccpi< td=""><td></td><td></td><td></td><td></td></maxccpi<>				
Information		nNodeB>				
>>>Communication Control Port ID	М		9.2.1.15		_	

	1	_	1			
>>>Resource	М		9.2.1.52		_	
Operational State						
>>>Availability Status	M		9.2.1.2		-	
>>Cell Information		0 <maxcellin NodeB></maxcellin 			EACH	ignore
>>>C-ID	M		9.2.1.9		_	
>>>Resource	M		9.2.1.52		_	
Operational State						
>>>Availability Status	М		9.2.1.2		_	
>>>Maximum DL	FFS		9.2.1.39		_	
Power Capability						
>>>Minimum	FFS		9.2.1.47		_	
Spreading Factor						
>>Primary SCH		01			YES	ignore
Information						
>>>Common Physical	M		9.2.1.13		_	
Channel ID						
>>>Resource	М		9.2.1.52		_	
Operational State						
>>>Availability Status	М		9.2.1.2		_	
>>Secondary SCH		01			YES	ignore
Information						-
>>>Common Physical	М		9.2.1.13		_	
Channel ID						
>>>Resource	М		9.2.1.52		_	
Operational State						
>>>Availability Status	М		9.2.1.2		_	
>>Primary CPICH		01			YES	ignore
Information						· ·
>>>Common Physical	М		9.2.1.13		_	
Channel ID						
>>>Resource	М		9.2.1.52		_	
Operational State						
>>>Availability Status	М		9.2.1.2		_	
>>Secondary CPICH		0 <maxsc< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxsc<>			EACH	ignore
Information		PICHCell>				
>>>Common Physical	М		9.2.1.13		_	
Channel ID						
>>>Resource	М		9.2.1.52		_	
Operational State						
>>>Availability Status	М		9.2.1.2		_	
>>Primary CCPCH		01			YES	ignore
Information						Ŭ
>>>Common Physical	M		9.2.1.13		_	
Channel ID						
>>Resource	M	1	9.2.1.52		_	
Operational State						
>>>Availability Status	M		9.2.1.2		_	
>>BCH Information		0 1			YES	ignore
>>>Common Transport	M		9.2.1.14	+		.55.0
Channel ID			3.2			
>>>Resource	M		9.2.1.52		_	
Operational State	.*.		5.2.1.02			
	M	1	9.2.1.2	+		
>>>Availability Status	141	0 <maxsc< td=""><td>0.2.1.2</td><td>+</td><td>EACH</td><td>ignore</td></maxsc<>	0.2.1.2	+	EACH	ignore
>>Secondary CCPCH Information		CPCHCell			LAOIT	ignore
momaduli		>				

	1	1	T T		1
>>>Common Physical Channel ID	М		9.2.1.13	_	
>>>Resource Operational State	М		9.2.1.52	_	
>>>Availability Status	М		9.2.1.2	_	
>>PCH Information		01		EACH	ignore
>>>Common Transport	М		9.2.1.14	_	
Channel ID					
>>>Resource	М		9.2.1.52	_	
Operational State			0.202		
>>>Availability Status	М		9.2.1.2		
>>PICH Information	141	01	0.2.1.2	YES	ignore
	M	01	9.2.1.13	-	ignore
>>>Common Physical	141		0.2.1.10		
Channel ID	M		9.2.1.52		
>>>Resource	IVI		9.2.1.52	_	
Operational State	M		9.2.1.2		
>>>Availability Status	IVI	0	9.2.1.2	EACH	ianor
>>FACH Information		<maxfac HCell></maxfac 		EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14	-	
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability Status	М		9.2.1.2	_	
>>PRACH Information		0 <maxpr ACHCell></maxpr 		EACH	ignore
>>>Common Physical Channel ID	М		9.2.1.13	_	
>>>Resource Operational State	М		9.2.1.52	_	
>>>Availability Status	М		9.2.1.2	_	
>>RACH Information		0 <maxpra CHCell></maxpra 		EACH	ignore
>>>Common Transport Channel ID	М		9.2.1.14	-	
>>>Resource	М		9.2.1.52	-	
Operational State			0.04.0		
>>>Availability Status	М		9.2.1.2		
>>AICH Information		0 <maxpra CHCell></maxpra 		EACH	ignore
>>>Common Physical Channel ID	М		9.2.1.13	_	
>>>Resource Operational State	М		9.2.1.52	-	
>>>Availability Status	М		9.2.1.2	_	
>>PCPCH Information		0 <maxpc< td=""><td></td><td>EACH</td><td>ignore</td></maxpc<>		EACH	ignore
		PCHCell>		 	
>>>Common Physical Channel ID	M			_	
>>>Resource Operational State	M			-	
>>>Availability Status	М			_	
>>CPCH Information		0		EACH	ignore
		<maxcpc HCell></maxcpc 		 	
>>>Common Transport	М			_	-

	1	1	1	1		
>>>Resource	M				_	
Operational State						
>>>Availability Status	M				_	
>>AP-AICH Information		0 <maxcpc HCell></maxcpc 			EACH	ignore
>>>Common Physical Channel ID	M				ı	
>>>Resource Operational State	M				1	
>>>Availability Status	M				_	
>>CD/CA-ICH Information		0 <maxcpc HCell></maxcpc 			EACH	ignore
>>>Common Physical Channel ID	M				_	
>>>Resource Operational State	M				_	
>>>Availability Status	M				_	
>>SCH Information		01			YES	ignore
>>>Common Physical Channel ID	М		9.2.1.14		_	
>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	M		9.2.1.2		_	·
Cause	0		9.2.1.6		YES	ignore

	Condition	Explanation
Ī	C-add	This IE is present only if "Add/Delete Indicator" equals to add

Range bound	Explanation
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
MaxCellinNodeB	Maximum number of C ID that can be configured in Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a Cell
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHes and AICHes that can be defined in a Cell
MaxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
MaxConsumptionLaws	Maximum number of credit consumption laws.

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/SIBInformation		1 maxIB			GLOBAL	reject
>IB Type	М		9.2.1.35	In one message, every IB Type can only be delated once and/or added once.	I	
>CHOICE IB						
DeletionIndicator						
>NoDeletion					YES	reject
>>SIB Originator	C-NotMIB		9.2.1.55		ı	
>>IB SG REP	0		9.2.1.34		-	
>>Segment Information		1 maxIBSEG			GLOBAL	reject
>>>IB SG POS	0		9.2.1.33		_	
>>>IB SG DATA	C – CRNCOrigi nation		9.2.1.32		-	
>Deletion			NULL			

Range bound	Explanation
1maxIB	Maximum number of information Blocks supported in
	one message.
1maxIBSEG	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'
NotMIB	This IE shall be present if the IB Type is not equal to
	"MIB"

9.1.34 SYSTEM INFORMATION UPDATE RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	М		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	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication	М		9.2.1.18		YES	reject
Context ID						
Transaction ID	М		9.2.1.62		-	
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		_	
	1.4		9.2.2.58			
>Diversity mode	M		9.2.29		_	
>D Field Length	C – FB		9.2.2. 5		_	
>SSDT cell ID Length	0		9.2.2.45		_	
>S Field Length	0		9.2.2.40		_	_
DL DPCH Information					YES	reject
>TFCS	М		9.2.1.58	For DL	_	
>DL DPCH Slot Format	М		9.2.2.10		_	
>TFCI signalling mode	M		9.2.2.50		-	
>TFCI presence	C- SlotFormat		9.2.1.57		_	
>Multiplexing Position	М		9.2.2.29		_	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		_	
>PDSCH code mapping	C-DSCH		9.2.2.25		_	
>Power Offset		1			_	
Information						
>>PO1	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>P02	М		Power Offset 9.2.2.29	Power offset for the TPC bits	_	
>>P03	M		Power Offset 9.2.2.29	Power offset for the pilot bits		
>FDD TPC DL Step Size	М		9.2.2.16			
>Limited Power Increase	M					
DCH Information		1 to <maxnoof DCHs></maxnoof 			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		_	
>UL FP mode	М		9.2.1.66		_	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60	1	-	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	

>>DCH ID	ΙM		9.2.1.20			
>>Transport Format Set	М		9.2.1.59	For UL	_	
>>Transport Format Set	М		9.2.1.59	For DL	-	
>>Frame Handling Priority	М		9.2.1.30		_	
>>QE-Selector	M		9.2.1.50A		_	
DSCH Information	141	0 to	3.2.1.307		GLOBAL	reject
DSCH IIIIOIIIIation		<maxnoof DSCHs></maxnoof 			OLOB/IL	10,000
>DSCH ID	М		9.2.1.27		-	
>Transport Format Set	М		9.2.1.59	For DSCH	-	
>Frame handling Priority	М		9.2.1.30		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
RL Information		1 to <maxnoof RLs></maxnoof 			EACH	notify
>RL ID	М		9.2.1.53		_	
>C-ID	М		9.2.1.9		_	
>First RLS Indicator	М				_	
>Frame Offset	М		9.2.1.31		_	
>Chip Offset	М		9.2.2.2		_	
>Propagation Delay	0		9.2.2.35		_	
>Diversity Control Field	C – NotFirstRL		9.2.2.7		-	
>DL Code Information		1 to <maxnoof- DLCodes</maxnoof- 			-	
>>DL Scrambling Code	М		9.2.2.13		-	
>>FDD DL Channelisation Code Number	М		9.2.2.14		-	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				-	
>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		_	
>SSDT Cell Identity	0		9.2.2.44		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			
Transmission Gap Pattern Sequence Information	0				YES	reject
Active Pattern Sequence Information	0				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length"
	equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL
	Information.
DSCH	This IE is present only if the DSCH Information group is present
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any
	of the value 12 to 16.
Diversity mode	This IE is present unless Diversity Mode IE in UL DPCH
	Information group is "none"
SF/2	This IE is present only 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".

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDLCodes	Maximum number of DL code information.

9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
N 5: : : .	M		reference 9.2.1.45			
Message Discriminator	M		9.2.1.45		YES	reject
Message Type CRNC Communication	M		9.2.1.40		YES	reject
Context ID					120	Тејест
Transaction ID	M		9.2.1.62		_	
UL CCTrCH Information		0 to <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		_	
UL DPCH Information		0 to <maxnoof DPCH></maxnoof 			GLOBAL	notify
>DPCH ID	M		9.2.3.5		_	
>TDD Channelisation Code	M		9.2.3.19		_	
>Burst Type	М		9.2.3.2		_	
>Midamble Shift	М		9.2.3.7		_	
>Time Slot	М		92.3.23		_	
>TDD Physical Channel Offset	M		9.2.3.20		_	
>Repetition Period	M		9.2.1.16		-	
>Repetition Length	M		9.2.1.15		-	
>TFCI Presence	M		9.2.1.57		-	
DL CCTrCH Information		0 to <maxno CCTrCH></maxno 			EACH	notify
>CCTrCH ID	М		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			
DL DPCH information		0 to <maxnoof DPCH></maxnoof 			GLOBAL	notify
>DPCH ID	M		9.2.3.5		-	
>TDD Channelisation Code	M		9.2.3.19		_	
>Burst Type	M		9.2.3.2		_	
>Midamble Shift	M		9.2.3.7		_	
>Time Slot	M		9.2.3.23		_	
>TDD Physical Channel Offset	M		9.2.3.20		_	
>Repetition Period	М		9.2.3.16		-	
>Repetition Length	М		9.2.3.15.		-	
>TFCI Presence	М		9.2.1.57		-	
DCH Information		0 to <maxnoof DCHs></maxnoof 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.49		_	
>UL FP mode	M		9.2.1.66		_	
>ToAWS	M		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	М		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	M		9.2.1.59	For UL	_	
>>Transport Format Set	M		9.2.1.59	For DL	_	
>>Frame Handling Priority	0		9.2.1.30		-	
>>QE-Selector	M		9.2.1.50A		_	
DSCH Information		0 to <maxnoof DSCHs></maxnoof 			GLOBAL	reject
>DSCH ID	M		9.2.1.27		_	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	M		9.2.1.59	For DSCH	_	
>Frame handling Priority	M		9.2.1.30		_	
>ToAWS	M		9.2.1.61		_	
>ToAWE	М		9.2.1.60		_	
USCH Information		0 to <maxnoof USCHs></maxnoof 			GLOBAL	reject
>USCH ID	M		9.2.3.27		_	
>CCTrCH ID	М		9.2.3.3	UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	M		9.2.1.59	For USCH	_	
>QE-Selector	M		9.2.1.50A		_	
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		_	
>Initial DL transmission	M		DL Powe		_	
Power			9.2.1.21r			
>Maximum DL power	M		DL Power 9.2.1.21		-	
>Minimum DL power	M		DL Power 9.2.1.21		_	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

9.1.37 RADIO LINK SETUP RESPONSE

9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication	М		9.2.1.18		YES	ignore
Context ID			0.04.00			
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
Communication Control Port ID	М		9.2.1.15		YES	ignore
RL Information Response		1 to <maxnoofrl s></maxnoofrl 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	М		9.2.2.39			
>UL interference level	М		9.2.1.67		_	
>Diversity Indication	C- NotFirstRL		9.2.2.8		_	
>CHOICE diversity						
Indication						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	_	
>>Non Combining or First RL					YES	Ignore
>>>DCH Information Response		0 to <maxnoofd CHs></maxnoofd 		Only one DCH per set of coordinated DCH shall be included	-	
>>>DCH ID	М		9.2.1.20		_	
>>>>Binding ID	М		9.2.1.4		_	
>>>>Transport Layer Address	M		9.2.1.63		_	
>DSCH Information Response		0 to <numof DSCH></numof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.27		_	
>>Binding ID	M		9.2.1.4		_	
>>Transport Layer Address	M		9.2.1.63		_	
>SSDT Support Indicator	М		9.2.2.46		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Condition	Explanation
NotFirstRL	This IE is present only if the RL is not the first one in the RL
	Information.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCH per UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.

9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		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 not be used.	YES	ignore
Communication Control Port ID	М		9.2.1.15		YES	ignore
RL Information Response		1			YES	ignore
>RL ID	М		9.2.1.53		_	
>UL Interference per Time Slot		1 <maxnooful ts></maxnooful 		Interference Level for each UL time slot within the Radio Link		
>Time Slot	М		9.2.3.23			
>UL interference level	М		9.2.1.67			
>DCH Information Response		1 to <maxnoofd CH></maxnoofd 		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		_	
>>Binding ID	M		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63		_	
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.27		_	
>>Binding ID	М		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63		_	
>USCH Information Response		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.27		-	
>>Binding ID	М		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCH per UE
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.38 RADIO LINK SETUP FAILURE

9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication	M		9.2.1.18		YES	ignore
Context ID			0.2			.9
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port ID	0		9.2.1.15		YES	ignore
CHOICE cause level						
>General					YES	ignore
>>Cause	М					
>RL specific					YES	ignore
>>Unsuccessful RL		1 to			EACH	ignore
Information Response		<maxnoo fRLs></maxnoo 				
>>>RL ID	М		9.2.1.53		-	
>>>Cause	М		9.2.1.6		_	
>>Successful RL Information Response		0 to <maxnoo fRLs-1></maxnoo 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>RL Set ID	М		9.2.2.39			
>>>UL interference level	М		9.2.1.67		-	
>>>Diversity Indication	C-NotFirstRL		9.2.2.8		_	
>>>CHOICE diversity Indication					_	
>>>Combining					YES	ignore
>>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	_	
>>>Non Combining or First RL					YES	ignore
>>>>DCH Information Response		0 to <maxnoo fDCHs></maxnoo 		Only one DCH per set of coordinated DCH shall be included	-	
>>>>DCH ID	М		9.2.1.20		-	
>>>>Binding ID	М		9.2.1.4		-	
>>>>Transport	M		9.2.1.63		_	
Layer Address		0 to	 	-	GLOBAL	Ignoro
>>>DSCH Information Response		<numof DSCH></numof 			GLUDAL	Ignore
>>>DSCH ID	M		9.2.1.27		_	
>>>>Binding ID	M		9.2.1.4		_	
>>>>Transport Layer	М		9.2.1.63		_	

Address				
>>>SSDT Support	M	9.2.2.46	_	
Indicator				
Criticality diagnostics	0	9.2.1.17	YES	ignore

Condition	Explanation
Success	This IE is present if at least one of the radio links has been
	successfully set up.
NotFirstRL	This IE is present only if the RL is not the first one in the RL
	Information.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of set DCH per UE.
MaxnoofDSCHs	Maximum number of DSCH 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	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	М		9.2.1.62		_	
CHOICE cause level						
>General					YES	ignore
>>Cause	М					
>RL specific					YES	ignore
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.55		_	
>>>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 reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		_	
Compressed Mode Deactivation Flag	0				YES	reject
RL Information		1 <ma xnoofR L-1></ma 			EACH	notify
>RL ID	M		9.2.1.53		_	
>C-ld	M		9.2.1.9		_	
>Frame Offset	M		9.2.1.31		_	
>Chip Offset	M		9.2.2.2		_	
>Diversity Control Field	М		9.2.2.7		_	
>DL Code Information		1max noofDL Codes			_	
>>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				-	
>Initial DL transmission power	0		DL Power 9.2.1.21		_	
>Maximum DL power	0		DL Power 9.2.1.21		_	
>Minimum DL power	0		DL Power 9.2.1.21		_	
>SSDT Cell Identity	0		9.2.2.44		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			

Condition	Explanation
Diversity mode	This IE is present unless Diversity Mode IE in UL DPCH Information
	group is "none"

Range bound	Explanation			
MaxnoofRL	Maximum number of RLs for one UE			
MaxnoofDLCodes	Maximum number of DL code information			

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	M		9.2.1.46		YES	reject
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.52		_	
UL CCTrCH Information		0 to <maxn o CCTrC H></maxn 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
UL DPCH Information		0 to <maxn oOfDP CH></maxn 			EACH	notify
>DPCH ID	М		9.2.3.5		_	
>TDD Channelisation Code	M		9.2.3.19		_	
>Burst Type	М		9.2.3.2		_	
>Midamble Shift	М		9.2.3.7		_	
>Time Slot	М		9.2.3.23		_	
>TDD Physilca Channel Offset	М		9.2.3.20		_	
>Repetition Period	М		9.2.3.16		_	
>Repetition Length	М		9.2.3.15		_	
>TFCI Presence	М		9.2.1.57		_	
DL CCTrCH Information		0 to <maxn o CCTrC H></maxn 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
DL DPCH information		0 to <maxn oOfDP CH></maxn 			EACH	notify
>DPCH ID	М		9.2.3.5		_	
>TDD Channelisation Code	М		9.2.2.79.2. 3.19		_	
>Burst Type	M		9.2.3.2		_	
>Midamble Shift	M		9.2.3.7		_	
>Time Slot	M		9.2.3.23		_	
>TDD Physical Channel Offset	M		9.2.3.20		_	
>Repetition Period	M		9.2.3.16		_	
>Repetition Length	M		9.2.3.15		_	
>TFCI Presence	M		9.2.1.57		-	
RL Information	ļ.,	1	001-	<u> </u>	YES	reject
>RL ID	M		9.2.1.53		_	
>C-ld	M		9.2.1.9		_	
>Frame Offset	M		9.2.1.31		_	
>Diversity Control Field >Initial DL Power	M O		9.2.2.7 DL Power			
>Maximum DL power	0		9.2.1.21 DL Power 9.2.1.21		_	

>Minimum DL power	0	DL Power	_	
'		9.2.1.21		

Range bound	Explanation
MaxnoOfDPCH	Maximum number of DPCH in one CCTrCH
MaxnoCCTrCH	number of CCTrCH for one UE.

9.1.40 RADIO LINK ADDITION RESPONSE

9.1.40.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		_	
RL Information Response		1 <maxno ofRL-1></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	М		9.2.2.9			
>UL interference level	М		9.2.1.67		-	
>Diversity Indication	М		9.2.2.8		-	
>CHOICE diversity indication					_	
>>Combining					YES	ignore
>>>RL ID	М		9.2.1.53	Reference RL	_	
>>Non combining					YES	ignore
>>>DCH Information Response		1 <maxno ofDCHs></maxno 			_	
>>>DCH ID	М		9.2.1.20		_	
>>>Binding ID	М		9.2.1.4		_	
>>>>Transport Layer Address	М		9.2.1.63		_	
>SSDT support indicator	М		9.2.2.46		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs per UE
MaxnoofRL	Maximum number of RLs for one UE

9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	description		Officiality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	М		9.2.1.62		_	
RL Information response		1			YES	ignore
>RL ID	М		9.2.1.53		_	
>UL Interference per Time Slot	М	1 <maxn oofULts ></maxn 		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	M		9.2.3.23			
>>UL interference level	М		9.2.1.67		-	
>Diversity Indication	М		9.2.2.8		-	
>CHOICE diversity indication						
>Combining				In TDD it indicates whether the old Transport Bearer shall be reused or not	YES	ignore
>>RL ID	М		9.2.1.53	Reference RL	_	
>Non combining					YES	ignore
>>DCH Information Response		0 <ma xnoofD CHs></ma 			_	
>>>DCH ID	М		9.2.1.20		-	
>>>Binding ID	М		9.2.1.4		-	
>>>Transport Layer Address	M		9.2.1.63		_	
>DSCH Information Response		0 <maxn oofDSC Hs</maxn 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.27		_	
>>Binding ID	М		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63		-	
>USCH Information Response		0 <maxn oofUSC Hs</maxn 			GLOBAL	ignore
>>USCH ID	М		9.2.3.27		_	
>>Binding ID	М		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs per UE
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUDCHs	Maximum number of USCHs for one UE
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.41 RADIO LINK ADDITION FAILURE

9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	М		9.2.1.62		_	
CHOICE cause level						
>General					YES	ignore
>>Cause	M					
>RL specific					YES	ignore
>>Unsuccessful RL Information Response		1 <ma xnoofR L-1></ma 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>>Succcessful RL Information Response		1 <ma xnoofR L-2></ma 			EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>RL Set ID	M		9.2.2.39			
>>>UL interference level	M		9.2.1.67		-	
>>>Diversity Indication	M		9.2.2.8		_	
>>>CHOICE diversity indication						
>>>Combining					YES	ignore
>>>>RL ID	М		9.2.1.53	Reference RL	_	
>>>Non combining					YES	Ignore
>>>>DCH Information Response		1 <ma xnoofD CHs></ma 			_	
>>>>DCH ID	M		9.2.1.20		_	
>>>>Binding ID	M		9.2.1.4		_	
>>>>Transport Layer Address	М		9.2.1.63		_	
>>>SDT support indicator	М		9.2.2.46		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs per UE
MaxnoofRL	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	M		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		_	
CHOICE cause level						
>General					YES	ignore
>>Cause	M					
>RL specific					YES	ignore
>>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

9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		_	
UL DPCH Information		01			YES	reject
>UL Scrambling code	0		9.2.2.59		_	
>UL SIR Target	0		UL SIR 9.2.2.58			
>Min UL Channelistion Code Length	0		9.2.2.22		_	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		_	
>Puncture Limit	0		9.2.1.50	For UL	_	
>TFCS	0		9.2.1.58		_	
>UL DPCCH Slot Format	0		9.2.2.57		_	
>SSDT Cell Identity Length	0		9.2.2.45		_	
>S-Field Length	0		9.2.2.40		_	
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-Slot Format		9.2.1.57		_	
>Multiplexing Position	0		9.2.2.23		_	
>PDSCH code mapping	0		9.2.2.25			
>PDSCH RL ID	0		RL ID 9.2.1.53			
>Limited Power Increase	0				_	
DCHs to Modify		0 <max noofDC Hs></max 			GLOBAL	reject
>UL FP Mode	0	1	9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>DCH Specific Info		1 <max noofDC Hs></max 			-	
>>DCH ID	М		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.	_	
>>Frame Handling Priority	0		9.2.1.20		_	
DCHs to Add		0 <max noofDC Hs></max 			GLOBAL	reject
>Payload CRC Presence Indicator	М	1.02	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 <max< td=""><td></td><td></td><td>_</td><td></td></max<>			_	
		noofDC				
	N 4	Hs>	9.2.1.20			
>>DCH ID	M			For the UL.	_	
>>Transport Format Set	M		9.2.1.59		_	
>>Transport Format Set	M		9.2.1.59	For the DL.	_	
>>Frame Handling Priority	M		9.2.1.30		_	
>>QE-Selector	М		9.2.1.50A		-	
DCHs to Delete		0 <max noofDC Hs></max 			GLOBAL	reject
>DCH ID	М		9.2.1.20		-	
DSCH to modify		0 <max noofDS CHs></max 			YES	reject
>DSCH ID	M		9.2.1.27		_	
>Transport Format Set	0		9.2.1.59	For the DL.	_	
>Frame Handling Priority	0		9.2.1.30		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
DSCH to add		0 <max noofDS CHs></max 			YES	reject
>DSCH ID	M		9.2.1.27		-	
>Transport Format Set	M		9.2.1.59	For the DL.	_	
>Frame Handling Priority	M		9.2.1.30		-	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60		-	
DSCH to Delete		0 <max noofDS CHs></max 			YES	reject
>DSCH ID	М		9.2.1.27		_	
RL Information		0 <max noofRLs ></max 			EACH	reject
>RL ID	М		9.2.1.53		_	
>DL Code Information		0 <max noofDL Codes<</max 			-	
>>DL Scrambling Code	0		9.2.2.12		_	
>>FDD DL Channelisation Code Number	0		9.2.2.14		_	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				_	
>Maximum DL Power	0		DL Power 9.2.1.21		_	
>Minimum DL Power	0		DL Power 9.2.1.21		_	
>SSDT Indication	0		9.2.2.47		_	
>SSDT Cell Identity	C- SSDTIndON		9.2.2.44		-	
Transmission Gap Pattern Sequence Information	0				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to
	'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code
	length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is
	equal to any of the value 12 to 16.
SF/2	This IE is present only 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".

Range Bound	Explanation			
MaxnoofDCHs	Maximum number of DCHs for a UE.			
MaxnoofDSCHs	Maximum number of DSCHs for a UE.			
MaxnoofRLs	Maximum number of RLs for a UE.			
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.			

9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	М		9.2.1.62		_	
UL CCTrCH to Add		O <maxno cctrc="" hs="" of=""></maxno>			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
>UL DPCH Information		0 <maxno of DPCHs</maxno 			GLOBAL	reject
>>DPCH ID	М		9.2.3.5		_	
>>TDD Channelisation Code	М		9.2.3.19		_	
>>Burst Type	М		9.2.3.2		_	
>>Midamble Shift	М		9.2.3.7		_	
>>Time Slot	М		9.2.3.23		_	
>>TDD Physical channel Offset	М		9.2.3.20		_	
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TFCI Presence	М		9.2.1.57		_	
UL CCTrCH to Modify		O <maxno of CCTrC Hs></maxno 			GLOBAL	reject
>CCTrCH ID	М				_	
>TFCS	0				_	
>TFCI Coding	0				_	
>Puncture Limit	0				-	
>UL DPCH to add		0 <maxno dpchs="" of=""></maxno>			GLOBAL	reject
>>DPCH ID	М				_	
>>TDD Channelisation Code	М				_	
>>Burst Type	М				_	
>>Midamble Shift	М				_	
>>Time Slot	М				_	
>>TDD Physical channel Offset	M				_	
>>Repetition Period	М				_	
>>Repetition Length	М				_	

>>TFCI Presence	М				_	
>UL DPCH to modify		0			GLOBAL	reject
202 Di Oli to modily		<maxno< td=""><td></td><td></td><td></td><td>. 5,550</td></maxno<>				. 5,550
		of				
		DPCHs >				
>>DPCH ID	М				_	
>>TDD Channelisation Code	0				_	
>>Burst Type	0				-	
>>Midamble Shift	0				_	
>>Time Slot	0				_	
>>TDD Physical channel	0				_	
Offset						
>>Repetition Period	0				-	
>>Repetition Length	0				_	
>>TFCI Presence	0	0			– GLOBAL	reject
>UL DPCH to delete		<maxno< td=""><td></td><td></td><td>GLUDAL</td><td>reject</td></maxno<>			GLUDAL	reject
		of				
		DPCHs				
. DDCH ID	M	>			_	
>>DPCH ID UL CCTrCH to Delete	141	0			GLOBAL	reject
OL COTTON to Delete		<maxno< td=""><td></td><td></td><td>0200/12</td><td>. 0,000</td></maxno<>			0200/12	. 0,000
		of				
		CCTrC				
>CCTrCH ID	M	Hs>			_	
DL CCTrCH to Add		0			GLOBAL	reject
		<maxno< td=""><td></td><td></td><td></td><td>-1</td></maxno<>				-1
		of				
		CCTrC Hs				
>CCTrCH ID	М	110	9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		-	
>PunctureLimit	М		9.2.1.50		_	
>DL DPCH Information		0			GLOBAL	reject
		<maxno of</maxno 				
		DPCHs				
		>				
>>DPCH ID	M		9.2.3.5		-	
>>TDD Channelisation Code	M		9.2.3.19		-	
>>Burst Type	M		9.2.3.2		_	
>>Midamble Shift	M		9.2.3.7		_	
>>Time Slot	M		9.2.3.23		_	
>>TDD Physical Channel Offset	M		9.2.3.20		_	
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		-	
>>TFCI Presence	М	1	9.2.1.57		-	
DL CCTrCH to Modify		0			GLOBAL	reject
		<maxno of<="" td=""><td></td><td></td><td></td><td></td></maxno>				
		CCTrC				
>CCTrCH ID	M	Hs		+	_	
>TFCS	0			1	_	
>TFCI Coding	0				_	
>PunctureLimit	0				_	
- I GIIOGGIOLIIIII	İ		1	l	1	

	1	T .	T	1	0.054	
>DL DPCH to add		0			GLOBAL	reject
		<maxno of<="" td=""><td></td><td></td><td></td><td></td></maxno>				
		DPCHs				
		>				
>>DPCH ID	М				_	
>>TDD Channelisation Code	М				_	
>>Burst Type	М				_	
>>Midamble Shift	М				_	
>>Time Slot	M				_	
	M				_	
>>TDD Physical Channel	IVI					
Offset	M					
>>Repetition Period					_	
>>Repetition Length	M				_	
>>TFCI Presence	М				_	
>DL DPCH to modify		0			GLOBAL	reject
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		of DPCHs				
		>				
>>DPCH ID	М			1	_	
>>TDD Channelisation Code	0				_	
	0				_	
>>Burst Type	0			+	_	
>>Midamble Shift						
>>Time Slot	0				_	
>>TDD Physical Channel	0				_	
Offset						
>>Repetition Period	0				_	
>>Repetition Length	0				_	
>>TFCI Presence	0				_	
>DL DPCH to delete		0			GLOBAL	reject
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		of				
		DPCHs				
>>DPCH ID	М	>			_	
	IVI	0			GLOBAL	reject
DL CCTrCH to Delete		<maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		of				
		CCTrC				
		Hs				
>CCTrCH ID	М					
DCHs to Modify		0 <max< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></max<>			GLOBAL	reject
		noofDC				-
		Hs>		1		
>UL FP Mode	0		9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>DCH Specific Info		1 <max< td=""><td></td><td></td><td>_</td><td></td></max<>			_	
		noofDC				
	ļ.,	Hs>	0015	<u> </u>		
>>DCH ID	M		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	_	
>>00 HOD ID	~		0.2.0.0	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.	_	

>>Frame Handling Priority	0		9.2.1.30		_	
DCHs to Add		0 <max noofDC Hs></max 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.49		-	
>UL FP Mode	М		9.2.1.66		_	
>ToAWS	M		9.2.1.61		_	
>ToAWE	M		9.2.1.60		_	
>DCH Specific Info		1 <max noofDC Hs></max 			-	
>>DCH ID	М		9.2.1.20		_	
>>CCTrCH ID	М		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 the UL.	_	
>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>Frame Handling Priority	М		9.2.1.30		_	
DCHs to Delete		0 <max noofDC Hs></max 			GLOBAL	reject
>DCH ID	M		9.2.1.20		_	
DSCH Information to modify		0 <maxno of DSCHs ></maxno 			GLOBAL	reject
>DSCH ID	M		9.2.1.27		_	
>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DSCH is mapped	_	
>Transport Format Set	0		9.2.1.59		_	
>Frame handling Priority	0		9.2.1.30		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
DSCH Information to add		0 <maxno of DSCHs</maxno 			GLOBAL	reject
>DSCH ID	М	-	9.2.1.27		_	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	М		9.2.1.59		_	
>Frame handling Priority	0		9.2.1.30		_	
>ToAWS	M		9.2.1.61		_	
>ToAWE	M		9.2.1.60		-	
DSCH Information to delete		0 <maxno of DSCHs</maxno 			GLOBAL	reject
>DSCH ID	М	-	9.2.1.27		_	
	1		ı		1	

USCH Information to modify		0 <maxno of USCHs</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		_	
>Transport Format Set	0		9.2.1.59		_	
>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the USCH is mapped	-	
USCH Information to add		0 <maxno of USCHs ></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		_	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	М		9.2.1.59		_	
>QE-Selector	М		9.2.1.50A		_	
USCH Information to delete		0 <maxno of USCHs</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		_	
RL Information		01			YES	reject
>RL ID	М		9.2.1.53		_	
>Maximum Downlink Power	0		DL Power 9.2.1.21		-	
>Minimum Downlink Power	0		DL Power 9.2.1.21		_	

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE

9.1.43 RADIO LINK RECONFIGURATION READY

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	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		_	
RL Information Response		0 <max noofRLs ></max 		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	M		9.2.1.53		_	
>DCH Information Response		0 <max noofDC Hs></max 		Only one DCH per set of co- ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		-	
>>Binding ID	M		9.2.1.4		_	
>>Transport Layer Address	M		9.2.1.63		_	
>DSCH Information Response		0 <max noofDS CHs></max 			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		_	
>>Binding ID	M		9.2.1.4		_	
>>Transport Layer Address	M		9.2.1.63		_	
>USCH Information Response		0 <maxno of USCHs</maxno 			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		_	
>>Binding ID	M		9.2.1.4		-	
>>Transport Layer Address	M		9.2.1.63		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE

9.1.44 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		_	
CHOICE cause level						
>General					YES	ignore
>>Cause	М		9.2.1.6		YES	ignore
>RL specific					YES	ignore
>>RLs Causing Reconfiguration Failure		0 <max noofRLs ></max 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation		
MaxnoofRLs	Maximum number of RLs for a UE.		

9.1.45 RADIO LINK RECONFIGURATION COMMIT

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

9.1.46 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message type	M		9.2.1.46		YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		_	

9.1.47 RADIO LINK RECONFIGURATION REQUEST

9.1.47.1 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	reject
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		_	
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the UL.	_	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the DL.	_	
>TFCI Signalling Mode	0		9.2.2.50		_	
>PDSCH code mapping	0		9.2.2.25			
>PDSCH RL ID	0		RL ID			
			9.2.1.53			
>Limited Power Increase	0				_	
DCHs to Modify		0 <maxn oofDCHs ></maxn 			GLOBAL	reject
>UL FP Mode	0		9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>DCH Specific Info		1 <maxn oofDCHs ></maxn 			_	
>>DCH ID	М		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.	_	
>>Frame Handling Priority	0		9.2.1.30		_	
DCHs to Add		0 <maxn oofDCHs ></maxn 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.49		-	
>UL FP mode	М		9.2.1.66		_	
>ToAWS	М		9.2.1.61		_	
>ToAWE	М		9.2.1.60		_	
>DCH Specific Info		1 <maxn oofDCHs ></maxn 			_	
>>DCH ID	М		9.2.1.20		_	
>>Transport Format Set	М		9.2.1.59	For the UL.	_	
>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>Frame Handling Priority	М		9.2.1.30		_	
>>QE-Selector	М		9.2.1.50A		_	
DCHs to Delete		0 <maxn oofDCHs ></maxn 			GLOBAL	reject
>DCH ID	M	-	9.2.1.20		_	
DSCH to Modify		0 <maxn oofDSCH s></maxn 			YES	reject

DCCLLID	N.4		0.04.07		_	
>DSCH ID	O		9.2.1.27 9.2.1.59	For the DL.	_	
>Transport Format Set	0		9.2.1.39	For the DL.	_	
>Frame Handling Priority	1					
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
DSCH to Add		0 <maxn oofDSCH s></maxn 			YES	reject
>DSCH ID	М		9.2.1.27		_	
>Transport Format Set	М		9.2.1.59	For the DL.	_	
>Frame Handling Priority	М		9.2.1.30		_	
>ToAWS	М		9.2.1.61		_	
>ToAWE	М		9.2.1.60		_	
DSCH to Delete		01			YES	reject
>DSCH ID	М		9.2.1.27		_	
Radio Link Information		0 <maxn oofRLs></maxn 			EACH	reject
>RL ID	М		9.2.1.53		_	
>Maximum DL Power	0		DL Power 9.2.1.53		_	
>Minimum DL Power	0		DL Power 9.2.1.53		_	
>DL Code Information	C-SF/2	0 <maxn oofDLCo des<</maxn 			_	
>>DL Scrambling Code	0				_	
>>FDD DL Channelisation Code Number	0				_	
>>Transmission Gap Pattern sequence Code Information	0				_	
Transmission Gap Pattern Sequence Information	0				YES	reject

Range Bound	Explanation				
MaxnoofDCHs	Maximum number of DCHs for a UE.				
MaxnoofDSCHs	Maximum number of DSCHs for a UE.				
MaxnoofRLs	Maximum number of RLs for a UE.				
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.				

Condition	Explanation				
SF/2	This IE group is present only if the <i>Transmission Gap</i>				
	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".				

9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		_	
UL CCTrCH to modify		0 <maxn oofCCTr CHs></maxn 			EACH	notify
>CCTrCH ID	M		9.2.3.3		_	
>TFCS	0		9.2.1.58		_	
>Puncture Limit	0		9.2.1.50		_	
UL CCTrCH to delete		0 <maxn oofCCTr CHs></maxn 			EACH	notify
>CCTrCH ID	М				_	
DL CCTrCH to modify		0 <maxn oofCCTr CHs></maxn 			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 delete		0 <maxn oofCCTr CHs></maxn 			EACH	notify
>CCTrCH ID	M				_	
DCHs to Modify		0 <maxn oofDCHs ></maxn 			GLOBAL	reject
>UL FP Mode	0		9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>DCH Specific Info		1 <maxn oofDCHs ></maxn 			_	
>>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.	_	
>>Frame Handling Priority	0		9.2.1.30		_	
DCHs to Add		0 <maxn oofDCHs ></maxn 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.49		_	
>UL FP Mode	M		9.2.1.66		_	
>ToAWS	М		9.2.1.61			

>ToAWE	М		9.2.1.60		_	
>DCH Specific Info		1 <maxn< td=""><td></td><td></td><td>_</td><td></td></maxn<>			_	
y z chi cpoomo milo		oofDCHs				
		>				
>>DCH ID	M		9.2.1.20	LU COT OU	_	
>>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 the UL.	_	
>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>Frame Handling Priority	М		9.2.1.30		_	
>>QE-Selector	M		9.2.1.50A		_	
DCHs to Delete		0 <maxn< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxn<>			GLOBAL	reject
		oofDSCH				
DOLLID		S>	0.04.00			
>DCH ID	M	0	9.2.1.20		- GLOBAL	reject
DSCH Information to modify		<maxnoo< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxnoo<>			GLOBAL	reject
		f				
		DSCHs>				
>DSCH ID	M		9.2.1.27		_	
>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the	_	
				DSCH is		
				mapped		
>Transport Format Set	0		9.2.1.59		_	
>Frame handling Priority	0		9.2.1.30		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
DSCH Information to add		0			GLOBAL	reject
		<maxnoo f</maxnoo 				
		DSCHs>				
>DSCH ID	M		9.2.1.29		_	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH	_	
				in which the		
				DSCH is		
>Transport Format Set	M		9.2.1.59	mapped	_	
>Frame handling Priority	0		9.2.1.30		_	
>ToAWS	M		9.2.1.61		_	
>ToAWE	M		9.2.1.60		_	
DSCH Information to delete		0			GLOBAL	reject
		<maxnoo< td=""><td></td><td></td><td></td><td>-</td></maxnoo<>				-
		f Decus				
^DSCH ID	M	DSCHs>	9.2.1.27		_	
>DSCH ID	IVI	0	J.L. 1.L1		GLOBAL	reject
USCH Information to modify		<maxnoo< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxnoo<>			GLOBAL	reject
		f				
	1 14	USCHs>	0.0.0.07			
>USCH ID	M		9.2.3.27	LIL COT-OLL	_	
>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the	_	
				USCH is		
				mapped		
>Transport Format Set	0	0	9.2.1.59	арроч	– GLOBAL	reject

		<maxnoo f USCHs></maxnoo 				
>USCH ID	M	0001132	9.2.3.27		_	
>CCTrCH ID	М		9.2.3.3	UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	M		9.2.1.59		_	
>QE-Selector	M		9.2.1.50A		_	
USCH Information to delete		0 <maxnoo f USCHs></maxnoo 			GLOBAL	reject
>USCH ID	M		9.2.3.27		_	
RL Information		01			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		_	
>Time slot ISCP Info		0 <maxn oofDLts></maxn 			_	
>>Time slot	М					
>>DL Time slot ISCP	М				_	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
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

9.1.48 RADIO LINK RECONFIGURATION RESPONSE

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	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		-	
RL Information Response		0 <maxn oofRLs></maxn 		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	M		9.2.1.53		-	
>DCH Information Response		0 <maxn oofDCHs ></maxn 		Only one DCH per set of co- ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		_	
>>Binding ID	M		9.2.1.4		-	
>>Transport Layer Address	M		9.2.1.63		_	
>DSCH Information Response		0 <maxn oofDSCH s></maxn 			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		-	
>>Binding ID	M		9.2.1.4		-	
>>Transport Layer Address	M		9.2.1.63		_	
>USCH Information Response		0 <maxnoo fUSCHs></maxnoo 			GLOBAL	ignore
>>USCH ID	M		9.2.3.27			
>>Binding ID	M		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63			
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoodUSCHs	Maximum number of USCHs for one UE

9.1.49 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		_	
RL Information		1 <maxn oofRLs></maxn 			EACH	notify
>RL ID	M		9.2.1.53		_	

Range bound	Explanation		
MaxnoofRLs	Maximum number of radio links for one UE		

9.1.50 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		_	
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
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	М		9.2.1.62		_	
Power Adjustment Type	М		9.2.2.27		YES	ignore
DL Reference Power	C- Common		DL power 9.2.1.21		YES	Ignore
DL Reference Power Information	C- Individual	1 <maxnoof RLs></maxnoof 			GLOBAL	ignore
>RL ID	M		9.2.1.53		_	
>DL Reference Power	М		DL power 9.2.1.21		_	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.20		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.A		YES	ignore
Adjustment Ratio	C- CommonO rIndividual		9.2.2.B		YES	ignore

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals to 'Common' or
	'Individual'

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

9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context Id	M		9.2.1.48	The reserved value "All NBCC" shall not be used when the Report characteristics type is set to "On-Demand".	YES	reject
Transaction Id	М		9.2.1.62	Domana .	_	
Measurement Id	M		9.2.1.42		YES	reject
Dedicated Measurement Object Type	М		9.2.1.22		YES	reject
CHOICE Dedicated Measurement Object Type					YES	ignore
>"RL"					YES	reject
>>RL Information		1 <maxnoofr Ls></maxnoofr 			EACH	reject
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5		_	
>"RLS"						
>>RL Set Information		1 <maxnoofr LSets></maxnoofr 				
>>>RL Set ID	М		9.2.2.39			
Dedicated Measurement Type	М		9.2.1.23		YES	reject
Measurement Filter Coefficient	0		9.2.1.41		YES	reject
Report Characteristics	М		9.2.1.51		YES	reject

Range	Explanation
MaxnoofRLs	Maximum number of individual RL's a measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on.

9.1.53 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context Id	М		9.2.1.18		YES	ignore
Transaction Id	М		9.2.1.62		_	
Measurement Id	М		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type				Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1 <maxnoofr Ls></maxnoofr 			EACH	ignore
>>>RL ID	M		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5		_	
>>>Dedicated Measurement Value	М		9.2.1.24			
>"RLS" or "ALL RLS"					YES	ignore
>>RL Set Information		1 <maxnoofr LSets></maxnoofr 			_	
>>>RL Set ID	M		9.2.2.39			
>>>Dedicated Measurement Value	М		9.2.1.24			
CFN	0		9.2.1.7	Dedicated Measuremen t Time Reference	YES	ignore
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range	Explanation
MaxnoofRLs	Maximum number of individual RL's the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on.

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		ı	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context Id	M		9.2.1.18		YES	ignore
Transaction Id	M		9.2.1.62		ı	
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	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
CRNC Communication	М		9.2.1.18		YES	ignore
Context Id			0.04.00			
Transaction Id	M		9.2.1.62			
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type				Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1 <maxnoofr Ls></maxnoofr 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5		_	
>>>CHOICE Measurement Availability Indicator					VF0	
>>>"Measurement Available"					YES	ignore
>>>>Dedicated Measurement Value	М		9.2.1.24		-	
>>>"Measurement not Available"			NULL		YES	ignore
>"RLS" or "ALL RLS"						
>>RL Set Information		1 <maxnoofr LSets></maxnoofr 				
>>>RL Set ID	М		9.2.1.39			
>>>CHOICE Measurement Availability Indicator						
>>>"Measurement Available"					YES	ignore
>>>> Dedicated Measurement Value	М		9.2.1.24			
>>>"Measurement not Available"			NULL		YES	ignore
CFN	0		9.2.1.7	Dedicated Measuremen t Time Reference	YES	ignore

Range	Explanation
MaxnoofRLs	Maximum number of individual RL's the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on.

9.1.56 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Node B Communication Context Id	M		9.2.1.48	The reserved value "All NBCC" shall only be used if this value was used when initiating the measuremen t.	YES	ignore
Transaction Id	M		9.2.1.62		_	
Measurement Id	М		9.2.1.42		YES	ignore

9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
CRNC Communication Context Id	М		9.2.1.18		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

9.1.58 RADIO LINK 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		_	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
CHOICE Reporting Object	М			Object for which the Failure shall be reported.		
>"RL"						
>>RL Information		1 to <pre></pre> <pre><maxnoofrl< pre=""></maxnoofrl<></pre>			EACH	ignore
		S>				
>>>RL ID	М		9.2.1.53		_	
>>>Cause	M		9.2.1.6		_	
>"RL Set"						
>>RL Set Information		1 to <maxnoofrl Sets></maxnoofrl 				
>>>RL Set ID	М		9.2.2.39			
>>>Cause	M		9.2.1.6			

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofRLSets	Maximum number of RL Sets for one UE.

9.1.59 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
CHOICE Reporting Object	M			Object for which the Restoration shall be reported.		
>"RL"						
>>Radio Link Information		1 to <maxnoofrl s=""></maxnoofrl>			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>"RL Set"						
>>RL Set Information		1 to <maxnoofrl Sets></maxnoofrl 				
>>>RL Set ID	М		9.2.2.39			

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofRI Sets	Maximum number of RL Sets for one UF

9.1.60 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Node B communication context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	М		9.2.1.62		_	
CFN	М		9.2.1.7		YES	ignore
Active Pattern Sequence Information	M				YES	ignore

9.1.61 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.45		-	
Message Discriminator	M		9.2.1.46		YES	ignore
CRNC Communication Context Id	C-ifUL		9.2.1.18		-	
Node B Communication Context Id	C-ifDL		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction Id	M		9.2.1.62		YES	ignore
Cause	C-ifalone		9.2.1.6		YES	ignore
Criticality diagnostics	C-ifalone		9.2.1.17		YES	ignore

Condition	Explanation
IfDL	This IE is only present when message is transmitted by the CRNC on a signalling bearer corresponding to a communication control port.
IfUL	This IE is onlypresent when message is transmitted by the Node B on a signalling bearer corresponding to a communication control port.
Ifalone	At least either of Cause IE or Criticality Diagnostics IE shall be present.

9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	reject
PDSCH Sets to add		0 <maxnoof PDSCHSets ></maxnoof 			GLOBAL	reject
>PDSCH Set Id	М		9.2.3.11		-	
>PDSCH Information		0 <maxnoof PDSCH></maxnoof 			GLOBAL	reject
>>PDSCH ID	М		9.2.3.10		-	
>>TDD Channelisation	М		9.2.3.19		-	
Code						
>>Burst Type	М		9.2.3.2		-	
>>Midamble Shift	М		9.2.3.7		-	
>>Time Slot	М		9.2.3.23		-	
>>Repetition Period	М		9.2.3.16		-	
>>TDD Physical Channel Offset	0		9.2.3.20		-	
>>Repetition Length	0		9.2.3.15		-	
>>TFCI Presence	М		9.2.1.57		-	
PDSCH Sets to Modify		0 <maxnoof PDSCHSets ></maxnoof 			GLOBAL	reject
>PDSCH Set Id	М		9.2.3.11		-	
>PDSCH Information		0 <maxnoof PDSCH></maxnoof 			GLOBAL	reject

	T	Т	00040	1	ī	
>>PDSCH ID	M		9.2.3.10		-	
>>TDD Channelisation	M		9.2.3.19		-	
Code	1					
>>Burst Type	M		9.2.3.2		-	
>>Midamble Shift	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical	0		9.2.3.20		-	
Channel Offset	_					
>>Repetition Length	0		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
PDSCH Sets to Delete		0 <maxnoof PDSCHSets ></maxnoof 			GLOBAL	reject
>PDSCH Set Id	М		9.2.3.11		-	
PUSCH Sets to add		0 <maxnoof PUSCHSets ></maxnoof 			GLOBAL	reject
>PUSCH Set Id	М		9.2.3.13		-	
>PUSCH Information		0 <maxnoof PUSCH></maxnoof 			GLOBAL	reject
>>PUSCH ID	M		9.2.3.12		-	
>>TDD Channelisation	M		9.2.3.19		-	
Code						
>>Burst Type	M		9.2.3.2		-	
>>Midamble Shift	M		9.2.3.7		-	
>>Time Slot	M		9.23.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical	0		9.2.3.20		-	
Channel Offset						
>>Repetition Length	0		9.2.3.15		-	
>>TFCI Presence	M				-	
PUSCH Sets to Modify		0 <maxnoof PUSCHSets ></maxnoof 			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	
>PUSCH Information		0 <maxnoof PUSCH></maxnoof 			GLOBAL	reject
>>PUSCH ID	M		9.2.3.12		-	
>>TDD Channelisation	M		9.2.3.19		-	
Code	1		0.0.5.5			
>>Burst Type	M		9.2.3.2		-	
>>Midamble Shift	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical	0		9.2.3.20		-	
Channel Offset						
>>Repetition Length	0		9.2.3.15		-	
>>TFCI Presence	M	<u> </u>	9.2.1.57		-	
PUSCH Sets to Delete		0 <maxnoof puschsets=""></maxnoof>			GLOBAL	reject
>PUSCH Set Id	М		9.2.3.13		-	
<u> </u>						

Range bound	Explanation
Maxnoof PDSCH Sets	Maximum number of PDSCH Sets in a cell.
Maxnoof PDSCH	Maximum number of PDSCH in a cell.
Maxnoof PUSCH Sets	Maximum number of PUSCH Sets in a cell.
Maxnoof PUSCH	Maximum number of PUSCH in a cell.

9.1.63 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic 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		-	
Criticality diagnostics	0		9.2.1.17		YES	ignore

9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Descriptio n	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		-	
CHOICE cause level						
>General					YES	ignore
>>Cause	M					
>Set specific					YES	ignore
>>Unsuccessful DL Shared channel set		0 <maxnoof PDSCHSets</maxnoof 			EACH	ignore
>>>PDSCH Set ID	М				-	
>>>Cause	M		9.2.1.6		YES	ignore
>>Unsuccessful UL Shared channel set		0 <maxnoof PUSCHSets</maxnoof 			EACH	ignore
>>>PUSCH Set ID	М				-	
>>>Cause	М				-	
Criticality diagnostics	0		9.2.1.17		YES	ignore

Range bound	Explanation
Maxnoof PDSCH Sets	Maximum number of PDSCH Sets in a cell.
Maxnoof PUSCH Sets	Maximum number of PUSCH Sets in a cell.

9.2 Information Element Functional Definition and Contents

9.2.0 General

Section 9.2 presents the NBAP IE definitions in tabular format. The corresponding ASN.1 definition is presented in section 9.3. In case there is contradiction between the tabular format in section 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.

9.2.1 Common parameters

9.2.1.1 Add/Delete Indicator

The add/delete indicator shall notify the RNC 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			ENUMERAT	
			ED(Add,	
			Delete)	

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 [6], following values are defined. If the value of this attribute is an empty set, this implies that none of the status conditions described in [6] are present.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Availability Status			ENUMERAT ED (empty, in test, failed, power off, off line, off duty, dependency, degraded, not installed, log full,)	

9.2.1.3 BCCH Modification Time

Indicates the time after which the new system information shall be applied on BCCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
BCCH Modification Time			Integer (0511))	All SFN values in which MIB may be mapped are allowed. The tabular description is presented in [18].

9.2.1.4 Binding ID

The Binding ID is the identifier of a user data stream. It is allocated at Node B and it is unique for each transport bearer under establishment to/from the Node B. The length of this parameter is variable.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Binding ID			Octetstring (14,)	

9.2.1.5 Blocking Priority Indicator

The Blocking priority indicator shall indicate the immediacy with which a resource should be blocked from use. The following priority classes shall be supported in the Blocking priority indicator.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Blocking Priority Indicator			ENUMERAT ED(High, Normal, Low)	High priority: Block resource immediately. Normal priority: Block resource when idle or upon timer expiry. Low priority: Block resource when idle.

9.2.1.6 Cause

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Cause group				
>Radio Network Layer				
>Radio Network Layer	M		Enumerated	
Cause			(unknown C-ID,	
			Cell not available, Power level not supported,	
			UL scrambling code already in	
			use,	
			DL radio resources not	
			available,	
			UL radio resources not	
			available,	
			RL Already	
			Activated/allocated,	
			Node B Resources	
			Unavailable, Insufficient physical channel	
			resources,	
			Measurement not supported	
			for the object,	
			Combining Resources not	
			available,	
			Reconfiguration not allowed,	
			Requested configuration not	
			supported, Synchronization failure,	
			Priority transport channel	
			established,SIB Origination in	
			Node B not Supported,	
			No Closed Loop Timing	
			Adjustment Mode configured,	
			Unspecified,	
			BCCH scheduling error,	
			Measurement Temporarily not Available,	
			Invalid CM Setting,	
)	
>Transport Layer				
>Transport Layer Cause	M		Enumerated	
			(Transport link failure,	
			Transmission port not available,	
			Transport resource	
			unavailable,	
			Unspecified,	
)	
>Protocol			Enumerate d	
>Protocol Cause			Enumerated (Transaction not allowed,	
			Transfer syntax error,	
			Abstract syntax error (reject),	
			Abstract syntax error (ignore	
			and notify),	
			Message not compatible with	
			receiver state,	
			Semantic error,	
			Unspecified,)	
>Misc			,	
>Miscellaneous Cause	M		Enumerated	
			(Control processing overload	
			Hardware failure,	
			O&M intervention, Not enough user plane	
			processing resources,	
	I	l	processing resources,	

	Unspecified,	
	l)	

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

Activation time for the compressed mode pattern.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CFN Offset			Integer (0255)	Number of frames between CFN and the CM pattern activation.

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)	

9.2.1.10 Common Measurement Object Type

The Common Measurement Object type indicates the type of object that the measurement is to be performed on.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement			ENUMERAT	
Object Type			ED (CELL,	
			RACH,	
			CPCH)	

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			ENUMERAT	
			ED (RSSI,	
			Transmitted	
			Carrier	
			Power,	
			Acknowledg	
			ed RA tries,	
			Timeslot	
			ISCP,	
			Acknowledg	
			ed PCPCH	
			Access	
			Preambles,	
			Detected	
			PCPCH	
			Access	
			Preambles,	
)	

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
>Transmitted Carrier Power Value	C MeasValu e		INTEGER(0100)	According to mapping in [4] and [5]
>RSSI Value	C MeasValu e		INTEGER(0. .621)	According to mapping in [4] and [5]
>Acknowledged RA tries Value	C MeasValu e		INTEGER(0240,)	The number of L1 acknowledged random access tries per every 20 ms period.
>Timeslot ISCP (TDD only)	C MeasValu e		INTEGER(081)	According to mapping in [5]
>Acknowledged PCPCH Access Preambles (FDD only)	C MeasValu e		INTEGER(015)	According to mapping in [4]
>Detected PCPCH Access Preambles (FDD only)	C MeasValu e		INTEGER(0240)	According to mapping in [4]

Condition	Explanation
MeasValue	Only one measurement value can be present at the same time.

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(0 255)	

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(0 255)	

9.2.1.15 Communication Control Port ID

A Communication Control Port corresponds to one signalling bearer between the RNC and Node B for the control of Node B Communication Contexts. 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(0 255)	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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Criticality Diagnostics				
Procedure Code	0		INTEGER (0255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
Triggering Message	0		ENUMERAT ED(initiating message, successful outcome, unsuccessful outcome, outcome,	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
Criticality Response	0		ENUMERAT ED(reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
Transaction Id	0		Transaction ID	
Information Element Criticality Diagnostics		1 to <maxnoof errors=""></maxnoof>		
>Criticality Response	M		ENUMERAT ED(reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'ignore' shall never be used.
>IE Id	M		INTEGER (065535)	The IE Id of the not understood or missing IE
>Repetition Number	0		INTEGER (0255)	The repetition number of the not understood IE if applicable

Range bound	Explanation
maxnooferrors	Maximum no. 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)	

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)	

9.2.1.21 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 [FDD-If referred to a DPCH, it indicates the power of the DPDCH symbols].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Power			Enumerated(-35+15dB)	Step 0.1dB

9.2.1.22 Dedicated Measurement Object Type

The Dedicated Measurement Object type indicates the type of object that the measurement is to be performed on.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement			ENUMERAT	
Object Type			ED (RL,	
			RLS,	
			ALL RL,	
			ALL RLS,)	

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 Reference	Semantics Description
Dedicated Measurement Type			ENUMERAT ED (SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time)	RSCP, Rx Timing Deviation are used by TDD only, Round Trip Time is used by FDD only.

Note. For definitions of the measurement types refer to [4] and [5].

9.2.1.24 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated measurement Value				
>SIR value	C MeasValu e		INTEGER(063)	According to mapping in [4] and [5]
>SIR error Value	C MeasValu e		INTEGER(0125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
>Transmitted Code Power Value	C MeasValu e		INTEGER(0127)	According to mapping in [4] and [5]
>RSCP	C MeasValu e		INTEGER(081)	According to mapping in [5]
>Rx Timing Deviation	C MeasValu e		INTEGER(02047)	According to mapping in [5]
>Round Trip Time	C MeasValu e		INTEGER(0. .8191)	According to mapping in [4]

Condition	Explanation
MeasValue	Only one measurement value can be present at the same time.

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			ENUMERAT	
			ED(May,	
			Must, Must	
			not)	

9.2.1.26 Diversity Indication

The Diversity Indication indicates if the RL has been or has not been combined with another RL.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Diversity Indication			ENUMERAT	
			ED	
			(Combined,	
			not	
			combined)	

9.2.1.27 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)	

9.2.1.28 DSCH Transport Format Set

This parameter defines the transport format set for DSCH.

Note: the parameter need to be defined. It may correspond to the DL TFS defined for DCH

9.2.1.29 DSCH Transport Format Combination Set

This parameter defines the transport format combination set for DSCH.

Note: to be defined. Each DSCH TFCI also indicates the code to be used

Note: the parameter need to be defined. It may correspond to the DL TFS defined for DCH

9.2.1.30 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH/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	0=lower priority,
			(015)	15=higher priority

9.2.1.31 Frame Offset

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 lub/lur and 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

9.2.1.32 IB SG DATA

Segment which is part of an Information Block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG DATA			Bit String	"SIB data" in segment as defined in ref: [18].

9.2.1.33 IB_SG_POS

First position of an 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 (0 2046)	Only even positions allowed. Reference [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			ENUMERAT ED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048)	Repetition period for the IB segment in frames

9.2.1.35 IB Type

The IB type identifies a specific system information block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB Type			Enumerated	
			(MIB, SIB1,	
			SIB2	
			SIB3, SIB4,	
			SIB5, SIB6,	
			SIB7, SIB8,	
			SIB9, SIB10,	
			SIB11,	
			SIB12,	
			SIB13,	
			SIB13.1	
			SIB13.2,	
			SIB13.3,	
			SIB13.4,	
			SIB14,)	

9.2.1.36 Indication Type

The indication type shall indicate the category of a failure with respect to its impact on the logical resources supported at Node B.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Indication Type			ENUMERAT ED (No Failure, Service Impacting,)	Service Impacting – The failure has impacted on the logical resources supported at Node B.

9.2.1.37 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, Node B shall use the limited power increase algorithm as specified in [10], Chapter 5.2.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Limited Power Increase			ENUMERAT	
			ED(Used,	
			Not used)	

9.2.1.38 Local Cell ID

The local cell ID represents resources in 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(0 26843545 5)	

9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell within Node B.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum DL Power Capability			ENUMERAT ED(0500)	dBm, granularity 0.1 dB 0: 0 dBm 1: 0.1 dBm
				 499: 49.9 dBm 500: 50.0 dBm

9.2.1.40 Maximum Transmission Power

Maximum Transmission Power is maximum power for all downlink channels added together, that is allowed to be used simultaneously in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum transmission Power			ENUMERAT ED(0,500)	Unit dBm Granularity 0.1 dB 0: 0 dBm 1: 0.1 dBm
				 499: 49.9 dBm 500: 50.0 dBm

9.2.1.40A Measurement Availability Indicator

Indicates if measurement is available or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Measurement Availability Indicator			ENUMERATE D(measureme nt available, measurement not available)	

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			INTEGER	
Coefficient			(1256)	

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(0	
			2^20-1)	

9.2.1.43 Measurement Increase/Decrease Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
RSSI	C – Threshold		INTEGER(0 620)	0: 0 dB 1: 0.1 dB 2: 0.2 dB
Transmitted Carrier Power	C – Threshold		INTEGER(0 100)	620: 62dB According to mapping in [4] and [5]
Acknowledged RA tries	C – Threshold		INTEGER(0 240,)	The number of L1 acknowledged random access tries per every 20 ms period.
Timeslot ISCP	C – Threshold		INTEGER(0 80)	0: 0 dB 1: 0.5 dB 2: 1 dB
SIR	C – Threshold		INTEGER(0 62)	80: 40dB 0: 0 dB 1: 0.5 dB 2: 1 dB
SIR Error	C – Threshold		INTEGER(0 124)	0: 0 dB 1: 0.5 dB 2: 1 dB
				 124: 62 dB
Transmitted Code Power	C – Threshold		INTEGER(0 112,)	0: 0 dB 1: 0.5 dB 2: 1 dB
RSCP	C – Threshold		INTEGER(0 80)	112: 56 dB 0: 0 dB 1: 0.5 dB 2: 1 dB
Round Trip Time	C – Threshold		INTEGER(0 8190)	80: 40dB 0: 0 chips 1: 0.25 chips 2: 0.5 chips
Acknowledged PCPCH Access Preambles	C – Threshold		INTEGER(015)	8190: 2047.5 chips According to mapping in [4] (FDD only)
Detected PCPCH Access Preambles	C – Threshold		INTEGER(0 240)	According to mapping in [4] (FDD only)

Condition	Explanation
Threshold	Only one measurement threshold can be present at the same time.

9.2.1.44 Measurement Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
RSSI	C – Threshold		INTEGER(0. .621)	According to mapping in [4] and [5]
Transmitted Carrier Power	C – Threshold		INTEGER(0100)	According to mapping in [4] and [5]
Acknowledged RA tries	C – Threshold		INTEGER(0. .240,)	The number of L1 acknowledged random access tries per every 20 ms period.
Timeslot ISCP	C – Threshold		INTEGER(081)	According to mapping in [5] (TDD only)
SIR	C – Threshold		INTEGER(063)	According to mapping in [4] and [5]
SIR Error	C – Threshold		INTEGER(0. .125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
Transmitted Code Power	C – Threshold		INTEGER(0127)	According to mapping in [4] and [5]
RSCP	C – Threshold		INTEGER(081)	According to mapping in [5] (TDD only)
Rx Timing Deviation	C - Threshold		INTEGER(02047)	According to mapping in [5] (TDD only)
Round Trip Time	C – Threshold		INTEGER(0. .8191)	According to mapping in [4] (FDD only)
Acknowledged PCPCH Access Preambles	C – Threshold		INTEGER(0. .15)	According to mapping in [4] (FDD only)
Detected PCPCH Access Preambles	C – Threshold		INTEGER(0240)	According to mapping in [4] (FDD only)

Condition	Explanation
Threshold	Only one measurement threshold can be present at the same time.

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			ENUMERAT	
			ED(Common	
			Dedicated)	

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
Message Type				
>Procedure ID	М	1		
>>Procedur e Code	M		ENUMERATED (COMMON TRANSPORT CHANNEL SETUP, COMMON TRANSPORT CHANNEL RECONFIGURATION, COMMON TRANSPORT CHANNEL DELETION, BLOCK RESOURCE, UNBLOCK RESOURCE, AUDIT REQUIRED, AUDIT, COMMON MEASUREMENT INITIATION, COMMON MEASUREMENT REPORTING, COMMON MEASUREMENT FAILURE, CELL SETUP, CELL RECONFIGURATION, CELL DELETION, RESOURCE STATUS INDICATION, SYSTEM INFORMATION UPDATE, RL SETUP, RL ADDITION, SYNCHRONISED RL RECONFIGURATION PREPARATION, SYNCHRONISED RL RECONFIGURATION CANCELLATION, UNSYNCHRONISED RL RECONFIGURATION CANCELLATION, UNSYNCHRONISED RL RECONFIGURATION, RL DELETION, DL POWER CONTROL, DEDICATED MEASUREMENT INITIATION, DEDICATED MEASUREMENT REPORTING, DEDICATED MEASUREMENT TERMINATION, DEDICATED MEASUREMENT FAILURE, RL FAILURE, RL FAILURE, RL RESTORATION, COMPRESSED MODE COMMAND, ERROR INDICATION,)	
>>Ddmode	М		ENUMERATED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Type of Message	М		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

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, 16, 32, 64,	
			128, 256,	
			512)	

9.2.1.47A N_INSYNC_IND

This parameter defines the number of successive in-sync indications after which the Node B shall trigger the Radio Link Restore procedure (see also [10] and [21]).

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
N_INSYNC_IND			Integer (1, 2,, 256)	

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 [10] and [21]).

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
N_OUTSYNC_IND			Integer (1, 2,, 256)	

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 reserved value to indicate 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			ENUMERAT	
Indicator			ED (CRC	
			Included,	
			CRC not	
			included)	

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	Semantics description
			reference	
Puncture limit			INTEGER	0: 40%
			(015)	1: 44 %
				 14: 96% 15: 100%

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			ENUMERAT	
			ED(selected,	
			non-	
			selected)	

9.2.1.51 Report Characteristics

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Report characteristics				
>Report characteristics type			ENUMERAT ED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E,	
			Event F,)	
>Periodic Report Information	C –			
>>Report Periodicity	Periodic M		ENUMERAT ED (10ms1mi n) step 10ms, (1min1hr) step 1min	The frequency with which the Node B shall send measurement reports. First working assumption!
>Event A	C – Event		·	
>>Measurement Threshold	M		Measureme nt Threshold	The threshold for which the Node B shall trigger a measurement report.
>>Measurement Hysteresis Time	0		ENUMERAT ED (10ms1mi n) step 10ms,	
>Event B	C – Event B			
>>Measurement Threshold	M		Measureme nt Threshold	The threshold for which the Node B shall trigger a measurement report.
>>Measurement Hysteresis Time	0		ENUMERAT ED (10ms1mi n) step 10ms,	
>Event C	C – Event		101110,111	
>>Measurement Increase/Decrease Threshold	M		Measureme nt Increase/De crease Threshold	
>>Measurement Change Time	M		ENUMERAT ED (10ms1mi n) step 10ms,	The time the measurement entity shall rise on (in ms), in order to trigger a measurement report.
>Event D	C – Event D			
>>Measurement Increase/Decrease Threshold	M		Measureme nt Increase/De crease Threshold	
>>Measurement Change Time	M		ENUMERAT ED (10ms1mi n) step 10ms,	The time the measurement entity shall fall (in ms), in order to trigger a measurement report.
>Event E	C – Event		101115,	

	E			
>>Measurement	M	l NA	1easureme	
Threshold 1	IVI		t Threshold	
>>Measurement	0		leasureme	
Threshold 2			t Threshold	
>>Measurement	0		NUMERAT	The hyptoropic time in me
Hysteresis Time	0		:NOWERAT	The hysteresis time in ms
Hysteresis Time			ם: 10ms1mi	
		(
		,	,	
			tep	
Donort Doriodicity	0	10	0ms, NUMERAT	The free every every state which the
>>Report Periodicity	0		:NUWERAT	The frequency with which the Node B shall send
		-	_	
			10ms1mi	measurement reports.
) step	
			Oms,	
			1min1hr)	
>Event F	C Firema	St	tep 1min	
>Event F	C – Event F			
>>Measurement	M		1easureme	
Threshold 1			t Threshold	
>>Measurement	0	M	1easureme	
Threshold 2		nt	t Threshold	
>>Measurement	0	E	NUMERAT	The hysteresis time in ms
Hysteresis Time		E	D	
		(1	10ms1mi	
		n))	
			tep	
		10	0ms,	
>>Report Periodicity	0		NUMERAT	The frequency with which the
		E	D	Node B shall send
		(1	10ms1mi	measurement reports.
		n)) step	
		10	0ms,	
		(1	1min1hr)	
		st	tep 1min	

Condition	Explanation
C-Periodic	Valid if Report Characteristics Type IE indicates "periodic"
C-Event A	Valid if Report Characteristics Type IE indicates "Event A"
C-Event B	Valid if Report Characteristics Type IE indicates "Event B"
C-Event C	Valid if Report Characteristics Type IE indicates "Event C"
C-Event D	Valid if Report Characteristics Type IE indicates "Event D"
C-Event E	Valid if Report Characteristics Type IE indicates "Event E"
C-Event F	Valid if Report Characteristics Type IE indicates "Event F"

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			ENUMERAT ED(Enabled, Disabled)	When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to [6].

9.2.1.53 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 SFN

System Frame Number of the cell, see ref. [17].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SFN			Integer (04095)	

9.2.1.54 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)	

9.2.1.56 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(1. .3600)	Value in seconds

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 [10] and [21]).

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
T_RLFAILURE			ENUMERAT	In seconds
			ED (0, 0.1,	
			0.2,, 25.5)	

9.2.1.57 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI presence			ENUMERAT	
			ED (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.

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2)

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Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2)

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
CHOICE DSCH				
>No split in TFCI				This choice is made if: a) The TFCS refers to the uplink
				OR b) The mode is FDD and none
				of the Node B communication contexts are assigned any
				DSCH transport channels OR
>>TFCS		1 to		c) The mode is TDD The first instance of the
>>11 03		<maxnooftfcs></maxnooftfcs>		parameter corresponds to TFC zero, the second to 1 and so on.
>>>CTFC	М		INTEGER(0. .MaxCTFC)	Integer number calculated according to [18]
>>>CHOICE Gain Factors	C- PhysChan			assistanty to [10]
>>>Signalled Gain Factors				
>>>>Gain Factor β _C	М		Integer (015)	For UL DPCCH or control part of PRACH or control part of
				PCPCH in FDD; mapping in accordance to [9]
>>>>Gain Factor	M		Integer	For UL DPDCH or data part of
βο			(015)	PRACH or data part of PCPCH in FDD: mapping in accordance to [9]
>>>>Reference TFC nr	0		Integer (03)	If this TFC is a reference TFC, this IE indicates the reference number
>>>Computed Gain Factors				
>>>>Reference TFC nr	М		Integer (03)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>There is a split in the TFCI				This choice is made if : a) The TFCS refers to the downlink
				AND b) The mode is FDD and one of the Node B communication
				contexts is assigned one or more DSCH transport channels
>>Transport format		1 to		The first instance of the
combination_DCH		<maxtfci_1_co mbs></maxtfci_1_co 		parameter Transport format combination_DCH corresponds
				to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	М		Integer(0M axCTFC)	Integer number calculated according to [18]. The
			axorr o)	calculation of CTFC ignores any DSCH transport channels which may be assigned
>>Choice Signalling method				may be assigned
>>>TFCI range				
>>>>TFC mapping on DSCH		1 to <maxnotfcigrou ps></maxnotfcigrou 		
>>>>Max TFCI(field2) value	М		Integer(110 23)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field 2)	М		Integer(0M axCTFC)	Integer number calculated according to [18]. The calculation of CTFC ignores any

				DCH transport channels which may be assigned
>>>Explicit				
>>>>Transport format combination_DSCH		1 to <maxtfci_2_co mbs></maxtfci_2_co 		The first instance of the parameter <i>Transport format combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field2)	М		Integer(0M axCTFC)	Integer number calculated according to [18]. The calculation of CTFC ignores any DCH transport channels which may be assigned

Condition	Explanation		
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH or		
	PRACH channel or PCPCH channel in FDD, not when the TFCS is		
	used for other physical channels.		

Range bound	Explanation
MaxnoofTFCs	The maximum number of Transport Format Combinations.
MaxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies
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 [18]

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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
Dynamic Transport Format		1 to		
Information		<maxtfcount></maxtfcount>		
>Number of Transport blocks	М		INTEGER (04095)	
>Transport Block Size	C – Blocks		INTEGER (05000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission time interval	C- TTIdynami c	1 to <maxtticount></maxtticount>	Enumerated(10, 20, 40, 80)	
Semi-static Transport Format Information				
>Transmission time interval	C- TTIsemista tic		ENUMERATED (10, 20, 40, 80)	msec
>Type of channel coding	М		ENUMERATED (No coding, Convolutional, Turbo)	
>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				
>>TDD				
>>>2 nd interleaving mode	М		Enumerated(Fra me related, Timeslot related)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater than
	0.
Coding	This IE is only present if IE "Type of channel coding" is
	"Convolutional" or "Turbo"
TTIdynamic	This IE is mandatory if not defined as semistatic parameter. Otherwise
	it is absent.
TTIsemistatic	This IE is mandatory if not defined as dynamic parameter. Otherwise
	it is absent.

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 TTI 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 TOAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
ToAWE			INTEGER	msec.
			(02559)	

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	msec.
			(01279)	

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
Transaction ID			CHOICE INTEGER	
			(0127) or	
			INTEGER (032767)	

9.2.1.63 Transport Layer Address

Transport Layer Address defines the transport address of the NodeB. For details on the Transport Address used see [2].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Layer Address			Bit string(1	
			160,)	

9.2.1.64 TSTD Indicator

Indicates if TSTD shall be active or not.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
TSTD Indicator			ENUMERAT ED(active, inactive)	

9.2.1.65 UARFCN

Designate the central frequency of the channel number.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER (016383,)	corresponds to 0.0Hz 3276.6MHz ([15] section 5.4 and [15])

[Editor's Note: in RRC they have additional attributes such as the "raster" included in the IE]

9.2.1.66 UL FP mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL FP mode			ENUMERAT ED(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13,	
			15, 17, 19)	

9.2.1.67 UL interference level

The UL interference level indicates the UL interference at a certain cell[FDD]/time slot[TDD] under CRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL interference level			ENUMERAT	Resolution is 0.1 dBm.
			ED(-	
			128.0dBm	
			60.0dBm)	

9.2.2 FDD specific parameters

9.2.2.A Active Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence activation. For details see [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CM Configuration Change CFN	M		CFN	Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN.
Transmission Gap Pattern Sequence Status		0 to <maxtgps></maxtgps>		
>TGPSI	M		Integer(1< MaxTGPS>)	If the group is not present, none of the pattern sequences are activated.
>TGPRC	М		Integer (063)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity
>TGCFN	М		CFN	Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.

Range bound	Explanation		
MaxTGPS	Maximum number of active pattern sequences. Value 6.		

9.2.2.B Adjustment Period

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 (1 300)	Frames

9.2.2.C Adjustment Ratio

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 (0 100)	The Adjustment Ratio is given with a granularity of 0.01 0 -> 0.00 1 -> 0.01 100 -> 1.00

9.2.2.1 AICH Transmission Timing

IE/Group Name	Presence	Range	IE type and reference	Semantics description
AICH Transmission Timing			ENUMERAT ED (0, 1)	See parameter AICH_Transmission_Timing in ref. [7].

9.2.2.1A AP Preamble Signature

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
AP Preamble Signature			INTEGER (015)	Described in [9]

9.2.2.1B AP Sub Channel Number

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
AP Sub Channel Number			INTEGER (011)	Described in [10]

9.2.2.1C CD Sub Channel Numbers

Information Element/Group	Presence	Range	IE type and	Semantics description
Name			reference	
CD Sub Channel Numbers			BIT STRING	Bit 0=Sub Channel Number 0
			(12)	Bit 1=Sub Channel Number 1
				 Bit 11=Sub Channel Number 11 [10]

9.2.2.1D Channel Assignment Indication

The Channel Assingment Indication indicates whether CA is active or inactive. When CA is active, CPCH is in Versatile Channel Assingment Method (VCAM) mode and when CA is inactive, CPCH is in UE Channel Selection Method (UCSM) mode. In VCAM mode (CA active), CA message in CD/CA-ICH shall be sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Channel Assignment			ENUMERAT	
Indication			ED (CA	
			Active, CA	
			Inactive)	

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 for the DL DPCH relative to the Primary CPICH timing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Chip Offset			INTEGER (038399)	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.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Timing Adjustment Mode			ENUMERAT	According to 25.214 chapter 7.1:
			ED (Offset1,	Offset1 = slot(j+1)mod15
			Offset2,)	Offset2 = $slot(j+2)mod15$

9.2.2.3 Common Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

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

• Common Transport Channel Setup

In case of usage of the Common Transport Channel Deletion, the consumption cost given in the consumption law must be credited to the Capacity Credit.

If the modelling of the internal resource capability of the 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".

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Common Channels Capacity Consumption Law				
>SF allocation law		<maxnumberofs F></maxnumberofs 		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.
>>DL cost	М		INTEGER (065535)	
>>UL cost	М		INTEGER (065535)	

9.2.2.3A Compressed Mode Deactivation Flag

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 Deactivation flag			ENUMERAT ED(On.	On = deactivate.
Dedonvation hag			Off)	

9.2.2.4 Compressed Mode Method

Defines the method for generating the downlink compressed mode gap, as described in [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Compressed Mode Method			ENUMERAT ED (None, Puncturing, SF/2, Higher Layer	None = restore the normal mode
			Scheduling)	

9.2.2.4A CPCH Allowed Total Rate

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CPCH Allowed Total Rate			ENUMERAT ED (15, 30, 60, 120, 240,	Channel Symbol Rate (ksps)
			480, 960, 1920, 2880,	
			3840, 4800, 5760)	

9.2.2.4B CPCH Scrambling Code Number

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
CPCH Scrambling Code Number			INTEGER (079)	Described in [9]

9.2.2.4C CPCH UL DPCCH Slot Format

Indicates the slot format used in UL CPCH message control part, accordingly to [7]

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH slot format			INTEGER (02)	

9.2.2.5 D-Field Length

Defines the D Field size of the UL DPCCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D Field Length			ENUMERAT	
-			ED (1, 2)	

9.2.2.6 Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

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

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration (case of increase of the SF)

In case of usage of the Radio Link Deletion or of the Radio Link Reconfiguration (case of decrease of the SF) procedure, the consumption cost given in the consumption law shall be credited to the Capacity Credit.

If the modelling of the internal resource capability of the 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".

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dedicated Channels Capacity Consumption Law				
>SF allocation law		<maxnumberofs F></maxnumberofs 		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.
>>DL cost	M		INTEGER (065535)	
>>UL cost	M		INTEGER (065535)	

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			ENUMERAT	
•			ED(None,	
			STTD,	
			Closed loop	
			mode 1,	
			Closed loop	
			mode2)	

9.2.2.10 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to [7].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL DPCH slot format			INTEGER (016)	

9.2.2.11 DL frame type

This parameter defines if frame structure type 'A' or 'B' shall be used in downlink compressed mode. This is defined in [8].

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Downlink Frame Type			ENUMERAT	
			ED (TypeA,	
			TypeB)	

9.2.2.12 DL or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a node B or of a local cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL or Global Capacity Credit			INTEGER	
			(065535)	

9.2.2.12A DL_power_averaging_window_size

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL_power_averaging_window_size			INTEGER (160)	1-60 time slots, step size 1 slot

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 115= 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(0.	
			30,)	

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 ChannalisationCode Number			INTEGER(0 255)	The maximum value is equal to the DL spreading factor –1

9.2.2.15 FDD S-CCPCH 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 S-CCPCH Offset			INTEGER(0 149)	0: 0 chip 1: 256 chip 2: 512 chip 149: 38144 chip [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	Semantics description
			reference	
FDD TPC Downlink step size			ENUMERAT	
			ED (0.5, 1,	
			1.5, 2)	

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	Semantics description
			reference	
First RLS Indicator			ENUMERAT	
			ED (first	
			RLS, not first	
			RLS)	

9.2.2.17 Gap Period

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Period			INTEGER(0255)	Frames

9.2.2.18 Gap Position Mode

The gap position can be fixed or adjustable, as defined in [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Position Mode			ENUMERAT	
•			ED (Fixed,	
			Flexible)	

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	Slots
			(1 10)	

9.2.2.20A Max Number of PCPCHes

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Number of PCPCHes			INTEGER(164)	

9.2.2.21 Maximum Number of UL DPDCHs

This parameter is an UE Radio Access Capability parameter which is needed in rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Number of UL DPDCHs			INTEGER (16)	

9.2.2.22 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is supported by UE. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min UL Channelisation Code length			ENUMERAT ED(4.9.16	
lengin			ED(4,8,16, 32,64,128,	
			256)	

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			ENUMERAT	
			ED(Fixed,	
			Flexible)	

9.2.2.23A N_EOT

The N_EOT is defined as number of End of Transmission for release of PCPCH transmission.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
N_EOT			INTEGER	TTI
			(08)	

9.2.2.23B NF_max

The NF_max is defined as maximum number of Frame in a PCPCH message data part.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
NF_max			INTEGER	
			(164)	

9.2.2.23C N_Start_Message

The N_Start_Message is defined as number of Frames for start message of DL DPDCHes for a CPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
N_Start_Message			INTEGER	
-			(18)	

9.2.2.24 Pattern Duration (PD)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PD			INTEGER(02047,)	Frames If the value is set to '0', the Pattern Duration shall be interpreted as 'infinite'

9.2.2.24A PCP Length

Indicates CPCH power control preamble length.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCP Length			ENUMERAT ED(0,8)	

9.2.2.25 PDSCH code mapping

This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH.

Method #1 - Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) va start' of Group = 1. The PDSCH code used for TFCI(field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code lues to PDSCH codes in the following way. The PDSCH code used for TFCI(field 2) = 0, is given by the SF and code number = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).

Note that each value of TFCI (field 2) maps to a given code number and when the 'multi-code info' parameter is greater than 1, then each value of TFCI (field 2) actually maps to a set of PDSCH codes. In this case contiguous codes are assigned, starting at the channelisation code denoted by the 'code number' parameter and including all codes with code numbers up to and including 'code number' - 1 + the value given in the parameter 'multi-code info'.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code. The PDSCH code specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2)'. The PDSCH code specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2)' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous group plus one.

Method #3 - Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code is spelt out explicitly for each value of TFCI (field2)

Information Element/Group	Presence	Range	IE type and	Semantics description
name			reference	
DL Scrambling Code	M		INTEGER	Scrambling code on which

	(015)	PDSCH is transmitted. 0= Primary scrambling code of the cell 115 = Secondary
		scrambling code

Choice signalling method				
>code range				
>>PDSCH code mapping		1 to		
		<maxnoco< td=""><td></td><td></td></maxnoco<>		
		deGroups>		
>>Spreading factor	М		Enumerated(
			4, 8, 16, 32,	
			64, 128, 256)	
>>multi-code info	М		Integer(116	This parameter indicates the
ZZINGIRI OOGO IIIIO	''')	number of PDSCH transmitted
			,	to the UE. The PDSCH codes
				all have the same SF as
				denoted by the Spreading
				factor parameter. Contiguous
				codes are assigned, starting
				at the channelisation code denoted by the spreading
				factor and code number
				parameter and including all
				codes, with code numbers up
				to and including 'code number'
				- 1 + 'multi-code info'. Note
				that 'code number'-1+'multi-
				code info' will not be allowed to exceed 'maxCodeNumComp'-
				1
>>Code number	М		Integer(0m	PDSCH code start, Numbering
			axCodeNum	as described in [18]
			Comp-1)	
>>Code number	M		Integer(0m	PDSCH code stop, Numbering
			axCodeNum	as described in [18]
TECH remain			Comp-1)	
>TFCI range >>DSCH mapping		1 to		
>>b3cm mapping		<maxnotf< td=""><td></td><td></td></maxnotf<>		
		CIGroups>		
>>>Max TFCI(field2) value	M		Integer(110	This is the maximum value in
			23)	the range of TFCI(field 2)
				values for which the specified
				PDSCH code applies
>>>Spreading factor	М		Enumerated(SF of PDSCH code
			4, 8, 16, 32, 64, 128,	
			256)	
>>>multi-code info	М		Integer(116	Semantics as described for
)	this parameter above
>>>Code number	М		Integer(0m	Code number of PDSCH code.
			axCodeNum	Numbering as described in
Funlisit			Comp-1)	[18]
>Explicit >>PDSCH code		1 to		The first instance of the
>>FD3CH COde		MaxTFCI_		parameter PDSCH code
		2_Combs		corresponds to TFCI (field2) =
				0, the second to TFCI(field 2)
				= 1 and so on.
>>>Spreading factor	М		Enumerated(SF of PDSCH code
			4, 8, 16, 32,	
			64, 128,	
to provide and a feet-	NA.		256)	Competing as described for
>>>multi-code info	M		Integer(116	Semantics as described for this parameter above
>>>Code number	M		Integer(0m	Code number of PDSCH code.
>>>oue number	'*'		axCodeNum	Numbering as described in
			Comp-1)	[18]
	•	•		

Range Bound	Explanation
MaxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.
MaxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

9.2.2.26 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PICH Mode			Enumerated(18, 36, 72, 144)	Number of PI per frame

9.2.2.27 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Adjustment Type			ENUMERAT	
			ED (None,	
			Common,	
			Individual)	ļ.

9.2.2.28 Power Control Mode

Power Control Mode specifies the uplink power mode applied during recovery period after each transmission gap in compressed mode. PCM can take 2 values (0 or 1). The different power control modes are described in [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Control Mode			ENUMERAT ED (0, 1,)	

9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPCH or a Secondary CCPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER (024)	Step 0.25 dB, range 0-6 dB
			(024)	

9.2.2.29A Power_Raise_Limit

Presence	Range	IE type and reference	Semantics description
		INTEGER	0-10 dB, step size 1 dB
	Presence	Presence Range	reference

9.2.2.30 Power Resume Mode

Power Resume Mode selects the uplink power control method to calculate the initial transmit power after the gap. PRM can take two values (0 or 1) and is described in [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Resume Mode			ENUMERAT	Described in [10]
			ED (0, 1,)	

9.2.2.31 Preamble Signature

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble Signatures			BIT STRING (16)	Bit 0=P0 Bit 1=P1
				 Bit 15=P15 [9]

9.2.2.32 Preamble threshold

The IE sets the threshold for preamble detection. The threshold is set in dB over the interference level. A Preamble threshold equal to n dB means that the preamble power must be received n dB over the interference in order to be acknowledged.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble threshold			INTEGER (0 , 1,,72)	0: 0 dB 1: 0.5 dB 2: 1 dB 72: 36.0 dB

9.2.2.33 Primary CPICH Power

Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH power			Enumerated (-10,, 50)	Unit dBm
				Granularity 0.1 dB

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 (0 511)	

9.2.2.35 Propagation Delay

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	Chips. Step size is 3 chips.
			(0255)	0=0 chips,
				1=3 chips,

9.2.2.36 QE-Selector

Void

9.2.2.37 RACH Slot Format

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Slot Format			ENUMERAT ED(03,)	See [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)	Bit 0=Sub Channel Number 0 Bit 1=Sub Channel Number 1 Bit 11=Sub Channel Number

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)	

9.2.2.40 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SSDT Cell ID to the network.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S Field Length			ENUMERAT	
			ED (1, 2)	

9.2.2.41 Scrambling Code Change

This parameter indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Change			ENUMERAT	
			ED (Change,	
			No change)	

9.2.2.42 Scrambling Code Number

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Word 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 Format			INTEGER(0.	

9.2.2.44 SSDT Cell Identity

The SSDT Cell ID is a temporary ID for SSDT assigned to a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSDT Cell Identity			ENUMERAT ED (a, b, h)	

9.2.2.45 SSDT Cell ID Length

The SSDT Cell ID Length parameter shows the length of the SSDT Cell ID.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell ID Length			ENUMERAT	
			ED(Short,	
			Medium,	
			Long)	

9.2.2.46 SSDT Support Indicator

The SSDT Support Indicator indicates whether a RL supports SSDT or not.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
SSDT Support Indicator			ENUMERAT	
			ED (SSDT	
			Supported,	
			SSDT not	
			supported).	

9.2.2.47 SSDT Indication

The SSDT Indication indicates whether SSDT is in use by the UE or not.

IE/Group name	Presence	Range	IE type and reference	Semantics description
SSDT Indication			ENUMERAT ED(SSDT Active in the UE, SSDT not Active in the UE)	

9.2.2.48 STTD Indicator

Indicates if STTD shall be active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
STTD Indicator			ENUMERAT ED(active, inactive)	

9.2.2.49 T_Cell

Timing delay used for defining start of SCH, CPICH and the DL scrambling code(s) in a cell relative BFN. Resolution 256 chips.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
T Cell			Enumerated	0: 0 chip
			(0 , 1,,9)	1: 256 chip
				9: 2304 chip
				[17]

9.2.2.50 TFCI signalling mode

This parameter indicates if the normal or split mode is used for the TFCI. In the event that the split mode is to be used then the IE indicates whether the split is 'Hard' or 'Logical', and in the event that the split is 'Logical' the IE indicates the number of bits in TFCI (field 2).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI signalling option	М		ENUMERAT ED (Normal, Split)	'Normal' : meaning no split in the TFCI field (either 'Logical' or 'Hard') 'Split' : meaning there is a split in the TFCI field (either 'Logical' or 'Hard')
Split type	C-IfSplit		Enumerated (Hard, Logical)	'Hard': meaning that TFCI (field 1) and TFCI (field 2) are each 5 bits long and each field is block coded separately. 'Logical': meaning that on the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole is then encoded with a single block code.
Length of TFCl2	C- SplitType		Integer (110)	This IE indicates the length measured in number of bits of TFCI (field2).

Condition	Explanation
IfSplit	This IE is only present if 'TFCI signalling option' = 'split'
SplitType	This IE is only present if 'Split type' = 'Logical'

9.2.2.51 TGD

Transmission Gap Distance is the duration of transmission between two consecutive transmission gaps within a transmission gap period, expressed in number of frames. In case there is only one transmission gap in the transmission gap period, this parameter shall be set to zero.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGD			INTEGER(0.	Slots
			.3839)	

9.2.2.52 TGL

Transmission Gap Length is the duration of no transmission, expressed in number of slots.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGL			ENUMERAT	Slot
			ED	
			(3.4.7.10.14)	

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			ENUMERAT ED(active, inactive)	

9.2.253A Transmission Gap Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence. For details see [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmission gap pattern Sequence Information		1 to <maxtgps></maxtgps>		
>TGPSI	M		Integer(1< MaxTGPS>)	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	M		Integer (014)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	М		Integer(114)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots
>TGL2	0		Integer (114)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		Integer (0, 15 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 = undefined).
>TGPL1	М		Integer (1144)	The duration of transmission gap pattern 1.
>TGPL2	0		Integer (1144)	The duration of transmission gap pattern 2. If omitted, then TGPL2=TGPL1.
>RPP	M		Enumerated (mode 0, mode 1).	Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied
>ITPPRM	M		Enumerated (mode 0, mode 1).	Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.
>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 (puncturing, SF/2, higher layer scheduling)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped
>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)	
DeltaSIR1	М		Integer (030)	Delta in DL SIR target value to be set in the UE during the

			compressed frames corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) Step 0.1
DeltaSIRafter1	М	Integer (030)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern,. Step 0.1
DeltaSIR2	0	Integer (030)	Delta in DL SIR target value to be set in the UE during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1.
DeltaSIRafter2	0	Integer (030)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1

Condition	Explanation
C-UL	This information element is only sent when the value of the "UL/DL
	mode" IE is "UL only" or "UL/DL".
C-DL	This information element is only sent when the value of the "UL/DL
	mode" IE is "DL only" or "UL/DL".

Range bound	Explanation
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

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 [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling code change			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:

This parameter specifies whether compressed mode is used in UL only, DL only or both UL and DL

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL/DL compressed mode selection			ENUMERAT ED (UL only,	
			DL only, both UL and DL)	

9.2.2.55 UL delta SIR

The delta in uplink SIR that shall be added to the SIR target used during compressed mode frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR			Enumerated (-6+10dB)	Step 0.1 dB.

9.2.2.56 UL delta SIR after

The delta in uplink SIR target that shall be added to the SIR target used one frame after the compressed mode frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR after			Enumerated (-6+10dB)	Step 0.1 dB.

9.2.2.57 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, accordingly to 25.211

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH slot format			INTEGER (05)	

9.2.2.58 UL SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL SIR			ENUMERAT	Step 0.1 dB
			ED (-8.2	·
			17.3)	

9.2.2.59 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL scrambling code				
>UL scrambling code number	M		INTEGER (0 2 ²⁴ -1)	
>UL scrambling code length	M		ENUMERAT ED(Short, Long)	

9.2.2.60 UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a node B or of a local cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Capacity Credit			INTEGER (065535)	

9.2.3 TDD specific Parameters

9.2.3.1 Block STTD Indicator

Indicates if Block STTD antenna diversity is applied or not to the PCCPCH.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Block STTD Indicator			ENUMERAT ED(active, inactive)	

9.2.3.2 Burst Type

The Burst Type as described in [19].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Burst Type			ENUMERAT	
			ED (Type1,	
			Type2)	

9.2.3.3 CCTrCH ID

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

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 Code Groups, Scrambling Codes, Midambles and Toffset (see table 9 of [20])

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Parameter ID			INTEGER	
			(0127)	

9.2.3.4A Constant Value

The Constant Value is the power margin used by a UE to set the proper uplink power for a DCH, USCH, or a RACH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Constant Value			INTEGER (-1010)	Unit dB Granularity 1 dB.

9.2.3.4B DL Timeslot ISCP

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 (According to mapping in [5].
			091)	

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	М		INTEGER (0239)	

9.2.3.6 Max PRACH Midamble shift

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max PRACH Midamble Shifts			ENUMERAT	
			ED (4, 8)	

9.2.3.7 Midamble shift

Different bursts transmitted simultaneously, using the same midamble code shall use different Midamble Shifts.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

The range of this parameter is 0 ... 15 for long midamble and 0 ... 2 for short midamble.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Midamble Shift			INTEGER	
			(015)	

9.2.3.8 Paging Indicator Length

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Paging Indicator Length			ENUMERAT ED (2, 4, 8)	number of symbols in the page indicator / see [19]

9.2.3.9 PCCPCH Power

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCCPCH Power			INTEGER(-	Unit dBm
			15+40)	Granularity 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	See [6]
			(0255)	

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 [6]

9.2.3.14 PRACH Midamble

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Midamble			ENUMERAT	
			ED	
			(Inverted,	
			Direct)	

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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Length			INTEGER(1.	
			.63)	

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).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Period			ENUMERAT	
			ED(1, 2, 4,	
			8, 16, 32,	
			64)	

.2.3.17 SCH Time Slot

The SCH Time Slot is only applicable if the value of Sync Case IE is Case 2.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SCH Time Slot			INTEGER(0.	
			.6)	

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

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Sync Case			Integer (12)	

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	Semantics description
			reference	
TDD Channelisation Code			ENUMERAT	
			ED ((1/1),	
			(2/1), (2/2),	
			(4/1),(4/4),	
			(8/1), (8/8),	
			(16/1)	
			(16/16))	

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).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Physical Channel			INTEGER	
Offset			(063)	

9.2.3.21 TDD 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
TDD TPC Downlink step size			ENUMERAT ED (1, 2, 3)	

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)	

9.2.3.23 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)	

9.2.3.25 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,	
			notActive)	

9.2.3.26 Transmission Diversity Applied

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmission Diversity Applied			Boolean	

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)	

9.3 Message and Information element abstract syntax (with ASN.1)

9.3.0 General

Section 9.3 presents the Abstract Syntax of NBAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this section and the tabular format in sections 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 section 10.

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 PDU Description for NBAP



```
NBAP-PDU-Discriptions -- { object identifier to be allocated } --
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,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,
    CommonMeasurementInitiationResponse,
    CommonMeasurementInitiationFailure,
    CommonMeasurementReport,
    CommonMeasurementTerminationRequest,
    CommonMeasurementFailureIndication,
    CellSetupRequestFDD,
    CellSetupRequestTDD,
    CellSetupResponse,
    CellSetupFailure,
    CellReconfigurationRequestFDD,
    CellReconfigurationRequestTDD,
    CellReconfigurationResponse,
    CellReconfigurationFailure,
    CellDeletionRequest,
```

```
CellDeletionResponse,
    ResourceStatusIndication,
    SystemInformationUpdateRequest,
    SystemInformationUpdateResponse,
    SystemInformationUpdateFailure,
    RadioLinkSetupRequestFDD,
    RadioLinkSetupRequestTDD,
    RadioLinkSetupResponseFDD,
    RadioLinkSetupResponseTDD,
    RadioLinkSetupFailureFDD,
    RadioLinkSetupFailureTDD,
    RadioLinkAdditionRequestFDD,
    RadioLinkAdditionRequestTDD,
    RadioLinkAdditionResponseFDD,
    RadioLinkAdditionResponseTDD,
    RadioLinkAdditionFailureFDD,
    RadioLinkAdditionFailureTDD,
    RadioLinkReconfigurationPrepareFDD,
    RadioLinkReconfigurationPrepareTDD,
    RadioLinkReconfigurationReady,
    RadioLinkReconfigurationFailure,
    RadioLinkReconfigurationCommit,
    RadioLinkReconfigurationCancel,
    RadioLinkReconfigurationRequestFDD.
    RadioLinkReconfigurationRequestTDD,
    RadioLinkReconfigurationResponse,
    RadioLinkDeletionRequest,
    RadioLinkDeletionResponse,
    DL-PowerControlRequest,
    DedicatedMeasurementInitiationRequest,
    DedicatedMeasurementInitiationResponse,
    DedicatedMeasurementInitiationFailure,
    DedicatedMeasurementReport,
    DedicatedMeasurementTerminationRequest,
    DedicatedMeasurementFailureIndication.
    RadioLinkFailureIndication,
    RadioLinkRestoreIndication,
    CompressedModeCommand,
    ErrorIndication,
    PrivateMessage,
    PhysicalSharedChannelReconfigurationRequestTDD,
    PhysicalSharedChannelReconfigurationResponseTDD,
    PhysicalSharedChannelReconfigurationFailureTDD
FROM NBAP-PDU-Contents
    id-audit,
    id-auditRequired,
    id-blockResource,
    id-cellDeletion,
    id-cellReconfiguration,
    id-cellSetup,
```

```
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-errorIndicationForDedicated,
    id-errorIndicationForCommon,
    id-physicalSharedChannelReconfiguration,
    id-privateMessageForDedicated,
    id-privateMessageForCommon,
    id-radioLinkAddition,
    id-radioLinkDeletion,
    id-radioLinkFailure,
    id-radioLinkRestoration,
    id-radioLinkSetup,
    id-resourceStatusIndication,
    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
                                                     DEFAULT ignore
                                      Criticality
WITH SYNTAX {
                                      &InitiatingMessage
    INITIATING MESSAGE
    [SUCCESSFUL OUTCOME
                                      &SuccessfulOutcome]
```

```
[UNSUCCESSFUL OUTCOME
                                       &UnsuccessfulOutcomel
    [ OUTCOME
                                      &Outcome 1
   MESSAGE DISCRIMINATOR
                                       &messageDiscriminator
   PROCEDURE ID
                                       &procedureID
    [CRITICALITY
                                       &criticality]
     *****************
  Interface PDU Definition
  *****************
NBAP-PDU ::= CHOICE {
   initiatingMessage
                           InitiatingMessage,
                           SuccessfulOutcome,
    succesfulOutcome
   unsuccesfulOutcome
                           UnsuccessfulOutcome,
   out.come
                           Outcome,
    . . .
InitiatingMessage ::= SEQUENCE {
   procedureID
                           NBAP-ELEMENTARY-PROCEDURE. & procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
                           NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES){@procedureID}),
   criticality
                           NBAP-ELEMENTARY-PROCEDURE. & messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   messageDiscriminator
    transactionID
                           TransactionID.
    value
                           NBAP-ELEMENTARY-PROCEDURE.&InitiatingMessage({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
SuccessfulOutcome ::= SEOUENCE {
                           NBAP-ELEMENTARY-PROCEDURE.&procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
   procedureID
   criticality
                           NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   messageDiscriminator
                           NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                           TransactionID,
                           NBAP-ELEMENTARY-PROCEDURE. &SuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
UnsuccessfulOutcome ::= SEOUENCE
   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.
    value
                           NBAP-ELEMENTARY-PROCEDURE: &UnsuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
Outcome ::= SEQUENCE {
   procedureID
                           NBAP-ELEMENTARY-PROCEDURE.&procedureID
                                                                 ({NBAP-ELEMENTARY-PROCEDURES}),
                           NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   criticality
   messageDiscriminator
                           NBAP-ELEMENTARY-PROCEDURE. & messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                           TransactionID,
                           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
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unSynchronisedRadioLinkReconfigurationFDD
    unSynchronisedRadioLinkReconfigurationTDD
    dedicatedMeasurementInitiation
    physicalSharedChannelReconfiguration
NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication
    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
```

```
radioLinkFailure
   radioLinkRestoration
   dedicatedMeasurementReport
   dedicatedMeasurementTermination
   dedicatedMeasurementFailure
   downlinkPowerControlFDD
    compressedModeCommand
   unblockResource
   errorIndicationForDedicated
   errorIndicationForCommon
   privateMessageForDedicated
   privateMessageForCommon
-- Interface Elementary Procedures
      ****************
-- Class 1
-- *** CellSetup (FDD) ***
cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE
                           CellSetupRequestFDD
                           CellSetupResponse
   SUCCESSFUL OUTCOME
   UNSUCCESSFUL OUTCOME
                           CellSetupFailure
   MESSAGE DISCRIMINATOR
                           common
                           { procedureCode id-cellSetup, ddMode fdd }
    PROCEDURE ID
   CRITICALITY
                           reject
-- *** CellSetup (TDD) ***
cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                           CellSetupRequestTDD
   INITIATING MESSAGE
   SUCCESSFUL OUTCOME
                           CellSetupResponse
                           CellSetupFailure
   UNSUCCESSFUL OUTCOME
                           common
   MESSAGE DISCRIMINATOR
    PROCEDURE ID
                           { procedureCode id-cellSetup, ddMode tdd }
   CRITICALITY
                           reject
-- *** CellReconfiguration(FDD) ***
cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE
                           CellReconfigurationRequestFDD
                           CellReconfigurationResponse
   SUCCESSFUL OUTCOME
                           CellReconfigurationFailure
   UNSUCCESSFUL OUTCOME
   MESSAGE DISCRIMINATOR
                           { procedureCode id-cellReconfiguration, ddMode fdd }
   PROCEDURE ID
   CRITICALITY
                           reject
```

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

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

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

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

```
{ procedureCode id-dedicatedMeasurementInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
-- *** PhysicalSharedChannelReconfiguration (TDD only) ***
physicalSharedChannelReconfiguration NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PhysicalSharedChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME PhysicalSharedChannelReconfigurationResponseTDD
    UNSUCCESSFUL OUTCOME
                           PhysicalSharedChannelReconfigurationFailureTDD
                           dedicated
    MESSAGE DISCRIMINATOR
                        { procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                        reject
-- Class 2
-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResourceStatusIndication
    MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-resourceStatusIndication, ddMode common }
    CRITICALITY
                            ignore
-- *** AuditRequired ***
auditRequired NBAP-ELEMENTARY-PROCEDURE ::=
                            AuditRequiredIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-auditRequired, ddMode common }
    CRITICALITY
-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementReport
   MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-commonMeasurementReport, ddMode common }
    CRITICALITY
                            ignore
-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonMeasurementTerminationRequest
    INITIATING MESSAGE
   MESSAGE DISCRIMINATOR
                           common
                             procedureCode id-commonMeasurementTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** CommonMeasurementFailure ***
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementFailureIndication
```

```
MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonMeasurementFailure, ddMode common }
    CRITICALITY
                            ignore
-- *** SynchronisedRadioLinkReconfirurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationCommit
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    PROCEDURE ID
    CRITICALITY
-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkReconfigurationCancel
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    PROCEDURE ID
    CRITICALITY
-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkFailureIndication
   MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkFailure, ddMode common }
    CRITICALITY
                            ignore
-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkRestoreIndication
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-radioLinkRestoration, ddMode common }
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementReport
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementReport, ddMode common }
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementTermination ***
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementTerminationRequest
   MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    CRITICALITY
                            ignore
```

```
-- *** DedicatedMeasurementFailure ***
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                           DedicatedMeasurementFailureIndication
   MESSAGE DISCRIMINATOR dedicated
   PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementFailure, ddMode common }
                           ignore
    CRITICALITY
-- *** DLPowerControl (FDD only) ***
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                           DL-PowerControlRequest
    INITIATING MESSAGE
   MESSAGE DISCRIMINATOR dedicated
                           { procedureCode id-downlinkPowerControl, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CompressedModeCommand
   MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-compressedModeCommand, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
                           UnblockResourceIndication
    INITIATING MESSAGE
   MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-unblockResource, ddMode common }
    CRITICALITY
                            ignore
-- *** ErrorIndication for Dedicated procedures ***
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ErrorIndication
                           dedicated
   MESSAGE DISCRIMINATOR
                            { procedureCode id-errorIndicationForDedicated, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** ErrorIndication for Common procedures ***
errorIndicationForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
                           ErrorIndication
    INITIATING MESSAGE
   MESSAGE DISCRIMINATOR common
    PROCEDURE ID
                            { procedureCode id-errorIndicationForCommon, ddMode common }
    CRITICALITY
                           ignore
-- *** PrivateMessage for Dedicated procedures ***
```

```
privateMessageForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                           PrivateMessage
    MESSAGE DISCRIMINATOR
                           dedicated
    PROCEDURE ID
                            { procedureCode id-privateMessageForDedicated, ddMode common }
    CRITICALITY
                            ignore
-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            PrivateMessage
    MESSAGE DISCRIMINATOR common
                            { procedureCode id-privateMessageForCommon, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
END
```

9.3.3 NBAP PDU Content Definitions

```
__ ********************
-- PDU definitions for NBAP.
  *****************
NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
    -- IE parameter types from other modules.
__ ********************
IMPORTS
   Active-Pattern-Sequence-Information,
  AddorDeleteIndicator,
  AICH-TransmissionTiming,
  APPreambleSignature,
  APSubChannelNumber,
  AvailabilityStatus,
   BCCH-ModificationTime,
   BindingID,
   BlockingPriorityIndicator,
   BlockSTTD-Indicator,
   BurstType,
   Cause,
```

```
CCTrCH-ID,
    CDSubChannelNumbers,
   CellParameterID.
    CFN.
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
    CPCH-Allowed-Total-Rate,
    CPCHScramblingCodeNumber,
    CPCH-UL-DPCCH-SlotFormat,
    CRNC-CommunicationContextID,
    DCH-ID,
    DedicatedChannelsCapacityConsumptionLaw,
    DedicatedMeasurementType,
    DedicatedMeasurementValue,
   D-FieldLength,
   DiversityControlField,
   DiversityMode,
    DL-DPCH-SlotFormat,
   DL-or-Global-CapacityCredit,
   DL-Power,
   DLPowerAveragingWindowSize,
   DL-ScramblingCode,
   DL-TimeslotISCP,
   DL-TPC-Pattern01Count,
   DPCH-ID,
    DSCH-ID,
-- to do
    DSCH-TFS,
    FDD-DL-ChannelisationCodeNumber,
    FDD-S-CCPCH-Offset,
    FDD-TPC-DownlinkStepSize,
    FirstRLS-Indicator,
    FrameHandlingPriority,
    FrameOffset,
    IB-SG-DATA,
    IB-SG-POS,
    IB-SG-REP,
    IB-Type,
    IndicationType,
```

```
LimitedPowerIncrease,
Local-Cell-ID.
MaximumDL-PowerCapability,
MaximumTransmissionPower,
Max-Number-of-PCPCHes.
MaxNrOfUL-DPDCHs,
MaxPRACH-MidambleShifts,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinSpreadingFactor,
MinUL-ChannelisationCodeLength,
MultiplexingPosition,
NEOT,
NFmax,
N-INSYNC-IND,
N-OUTSYNC-IND,
NodeB-CommunicationContextID,
NStartMessage,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PCP-Length,
PDSCH-CodeMapping,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
PowerAdjustmentType,
PowerOffset,
PowerRaiseLimit,
PRACH-Midamble,
PreambleSignatures,
PreambleThreshold,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
SCH-TimeSlot,
PunctureLimit,
PUSCHSet-ID,
PUSCH-ID,
QE-Selector,
RACH-SlotFormat,
RACH-SubChannelNumbers,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
ResourceOperationalState,
RL-Set-ID,
RL-ID,
AdjustmentPeriod,
ScaledAdjustmentRatio,
```

```
MaxAdjustmentStep,
    ScramblingCodeNumber,
    SecondaryCCPCH-SlotFormat,
    S-FieldLength,
    SFN.
    ShutdownTimer,
    SIB-Originator,
    SSDT-Cell-Identity,
    SSDT-CellID-Length,
    SSDT-Indication,
    STTD-Indicator,
    SSDT-SupportIndicator,
    SyncCase,
   T-Cell,
   T-RLFAILURE,
   TDD-ChannelisationCode,
    TDD-TPC-DownlinkStepSize,
    TDD-PhysicalChannelOffset,
   TFCI-Coding,
    TFCI-Presence,
    TFCI-SignallingMode,
   TFCS,
   TimeSlot,
   TimeSlotDirection,
   TimeSlotStatus,
    TOAWE,
    ToAWS,
    TransmissionDiversityApplied,
    TransmitDiversityIndicator,
    TransmissionGapPatternSequenceCodeInformation,
    Transmission-Gap-Pattern-Sequence-Information,
    TransportFormatSet,
    TransportLayerAddress,
    TSTD-Indicator,
    UARFCN,
    UL-CapacityCredit,
    UL-DPCCH-SlotFormat,
    UL-SIR,
    UL-FP-Mode,
    UL-InterferenceLevel,
    UL-ScramblingCode,
    USCH-ID
FROM NBAP-IEs
    PrivateIE-Container{},
    ProtocolExtensionContainer{},
    ProtocolIE-Container{},
    ProtocolIE-ContainerList{},
    NBAP-PRIVATE-IES,
    NBAP-PROTOCOL-IES,
    NBAP-PROTOCOL-EXTENSION
```

FROM NBAP-Containers

```
id-Active-Pattern-Sequence-Information,
id-AdjustmentRatio,
id-AICH-InformationItem-AuditRsp,
id-AICH-InformationItem-ResourceStatusInd,
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-AllRLItem-DM-Rgst,
id-AllRLItem-Set-DM-Rqst,
id-AP-AICH-InformationItem-AuditRsp.
id-AP-AICH-InformationItem-ResourceStatusInd,
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-BCH-InformationItem-AuditRsp.
id-BCH-InformationItem-ResourceStatusInd,
id-BCCH-ModificationTime,
id-BlockingPriorityIndicator,
id-CaselItem-Cell-SetupRqstTDD,
id-Case2Item-Cell-SetupRqstTDD,
id-Cause,
id-CauseLevel-PSCH-ReconfFailureTDD,
id-CauseLevel-RL-AdditionFailureFDD,
id-CauseLevel-RL-AdditionFailureTDD,
id-CauseLevel-RL-ReconfFailure,
id-CauseLevel-RL-SetupFailureFDD.
id-CauseLevel-RL-SetupFailureTDD,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-CDCA-ICH-InformationItem-AuditRsp,
id-CDCA-ICH-InformationItem-ResourceStatusInd,
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-Cell-InformationItem-AuditRsp,
id-Cell-InformationItem-ResourceStatusInd,
id-Cell-InformationList-AuditRsp,
id-CellItem-CM-Rprt,
id-CellItem-CM-Rqst,
id-CellItem-CM-Rsp,
id-CellParameterID,
id-CFN,
id-C-ID,
id-Closed-Loop-Timing-Adjustment-Mode,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
id-CommonMeasurementObjectType-CM-Rsp,
id-CommonMeasurementType,
id-CommonPhysicalChannelID,
```

```
id-CommonPhysicalChannelType-CTCH-ReconfRgstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRgstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRgstTDD,
id-CommonTransportChannelType-CTCH-ReconfRgstTDD,
id-CommunicationControlPortID.
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRgstFDD,
id-ConfigurationGenerationID,
id-CPCH-InformationItem-AuditRsp,
id-CPCH-InformationItem-ResourceStatusInd,
id-CPCHItem-CM-Rprt,
id-CPCHItem-CM-Rqst,
id-CPCHItem-CM-Rsp.
id-CPCHListItem-CTCH-ReconfRgstFDD,
id-CPCH-Parameters-CTCH-SetupRsp.
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,
id-CRNC-CommunicationContextID.
id-CriticalityDiagnostics,
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfRqstFDD,
id-DCH-AddList-RL-ReconfRqstTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRgstFDD,
id-DCH-DeleteList-RL-ReconfRqstTDD,
id-DCH-InformationList-RL-SetupRgstFDD,
id-DCH-InformationList-RL-SetupRgstTDD,
id-DCH-InformationResponseListIE-RL-ReconfReady,
id-DCH-InformationResponseListIE-RL-ReconfRsp,
id-DCH-InformationResponseItem-RL-SetupRspTDD,
id-DCH-InformationResponseListIE-RL-SetupRspTDD,
id-DCH-ModifyList-RL-ReconfPrepFDD,
id-DCH-ModifyList-RL-ReconfPrepTDD,
id-DCH-ModifyList-RL-ReconfRqstFDD,
id-DCH-ModifyList-RL-ReconfRgstTDD,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rgst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD,
```

```
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-DL-DPCH-InformationList-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-ReconfRgstFDD,
id-DL-DPCH-Information-RL-SetupRgstFDD,
id-DL-ReferencePowerInformationItem-DL-PC-Rgst,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rgst,
id-DL-TPC-Pattern01Count,
id-DPCHConstant,
id-DSCH-AddItem-RL-ReconfPrepFDD.
id-DSCH-AddItem-RL-ReconfRgstFDD,
id-DSCH-AddList-RL-ReconfPrepFDD,
id-DSCH-AddList-RL-ReconfRgstFDD,
id-DSCH-DeleteItem-RL-ReconfPrepFDD,
id-DSCH-DeleteItem-RL-ReconfRgstFDD,
id-DSCH-DeleteList-RL-ReconfPrepFDD,
id-DSCH-DeleteList-RL-ReconfRqstFDD,
id-DSCH-ID,
id-DSCH-information-AddList-RL-ReconfPrepTDD.
id-DSCH-Information-AddList-RL-ReconfRqstTDD,
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD,
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,
id-DSCH-Information-ModifyList-RL-ReconfRgstTDD,
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD,
id-DSCH-InformationResponseListIE-RL-ReconfReady,
id-DSCH-InformationResponseListIE-RL-ReconfRsp,
id-DSCH-InformationRespListIE-RL-SetupFailureFDD,
id-DSCH-InformationResponseListIE-RL-SetupRspFDD,
id-DSCH-InformationResponseListIE-RL-SetupRspTDD,
id-DSCH-InformationList-RL-SetupRqstFDD,
id-DSCH-InformationList-RL-SetupRgstTDD,
id-DSCH-ModifyItem-RL-ReconfPrepFDD,
id-DSCH-ModifyItem-RL-ReconfRgstFDD,
id-DSCH-ModifyList-RL-ReconfPrepFDD,
id-DSCH-ModifyList-RL-ReconfRgstFDD,
id-FACH-InformationItem-AuditRsp,
id-FACH-InformationItem-ResourceStatusInd,
id-FACHItem-CTCH-SetupRsp.
id-FACH-ParametersList-CTCH-ReconfRgstTDD,
id-FACH-ParametersList-CTCH-SetupRsp,
id-FACH-ParametersListIE-CTCH-ReconfRgstFDD.
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,
id-GeneralCauseItem-PSCH-ReconfFailureTDD,
id-GeneralCauseItem-RL-AdditionFailureFDD,
```

```
id-GeneralCauseItem-RL-AdditionFailureTDD.
id-GeneralCauseItem-RL-ReconfFailure.
id-GeneralCauseItem-RL-SetupFailureFDD.
id-GeneralCauseItem-RL-SetupFailureTDD,
id-IndicationType-ResourceStatusInd,
id-Limited-power-increase-information-Cell-SetupRqstFDD,
id-Local-Cell-ID,
id-Local-Cell-InformationItem-AuditRsp,
id-Local-Cell-InformationItem-ResourceStatusInd.
id-Local-Cell-InformationItem2-ResourceStatusInd.
id-Local-Cell-InformationList-AuditRsp.
id-AdjustmentPeriod,
id-MaxAdiustmentStep,
id-MaximumTransmissionPower,
id-MeasurementAvailableItem-CommonMeasurementReport,
id-MeasurementnotAvailableItem-CommonMeasurementReport,
id-MeasurementAvailableItem-DedicatedMeasurementReport,
id-MeasurementnotAvailableItem-DedicatedMeasurementReport,
id-MeasurementFilterCoefficient,
id-MeasurementID.
id-MIB-SIB-InformationList-SystemInfoUpdateRgst,
id-NodeBInformation-AuditRep,
id-No-DeletionItem-SystemInfoUpdate,
id-No-FailureItem-ResourceStatusInd,
id-Non-CombiningItem-RL-AdditionFailureFDD,
id-Non-CombiningItem-RL-AdditionRspFDD,
id-Non-CombiningItem-RL-AdditionRspTDD,
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,
id-NodeB-CommunicationContextID,
id-P-CCPCH-InformationItem-AuditRsp,
id-P-CCPCH-InformationItem-ResourceStatusInd,
id-P-CPICH-InformationItem-AuditRsp.
id-P-CPICH-InformationItem-ResourceStatusInd,
id-P-SCH-InformationItem-AuditRsp.
id-P-SCH-InformationItem-ResourceStatusInd,
id-PCCPCH-Information-Cell-ReconfRgstTDD,
id-PCCPCH-Information-Cell-SetupRgstTDD,
id-PCH-InformationItem-ResourceStatusInd,
id-PCHItem-CTCH-SetupRsp,
id-PCH-Parameters-CTCH-ReconfRgstTDD,
id-PCH-Parameters-CTCH-SetupRsp,
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRgstTDD,
id-PCH-InformationItem-AuditRsp.
id-PCPCH-InformationItem-AuditRsp.
id-PCPCH-InformationItem-ResourceStatusInd,
id-PCPCHItem-CTCH-SetupRqstFDD,
id-PCPCH-ParametersList-CTCH-ReconfRgstFDD,
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,
```

```
id-PICH-InformationItem-ResourceStatusInd,
id-PD.
id-PDSCH-Information-AddListIE-PSCH-ReconfRgst.
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PDSCHSets-AddList-PSCH-ReconfRast.
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,
id-PICH-InformationItem-AuditRsp,
id-PICH-Parameters-CTCH-ReconfRgstTDD,
id-PowerAdjustmentType,
id-PRACH-InformationItem-AuditRsp,
id-PRACH-InformationItem-ResourceStatusInd,
id-PRACHConstant,
id-PRACHItem-CTCH-SetupRgstFDD,
id-PRACHItem-CTCH-SetupRgstTDD,
id-PRACHListIE-CTCH-ReconfRqstFDD,
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD,
id-PrimaryCCPCH-Information-Cell-SetupRgstFDD,
id-PrimaryCPICH-Information-Cell-ReconfRgstFDD,
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,
id-PrimarySCH-Information-Cell-ReconfRqstFDD,
id-PrimarySCH-Information-Cell-SetupRqstFDD,
id-PrimaryScramblingCode,
id-ProcedureScopeType-DL-PC-Rqst,
id-SCH-Information-Cell-ReconfRgstTDD,
id-SCH-Information-Cell-SetupRgstTDD,
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCHConstant,
id-PUSCHSets-AddList-PSCH-ReconfRqst,
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,
id-RACH-InformationItem-AuditRsp,
id-RACH-InformationItem-ResourceStatusInd,
id-RACHItem-CTCH-SetupRsp,
id-RACHItem-CM-Rort,
id-RACHItem-CM-Rgst,
id-RACHItem-CM-Rsp,
id-RACH-Parameters-CTCH-SetupRsp,
id-RACH-ParametersItem-CTCH-SetupRgstFDD,
id-RACH-ParameterItem-CTCH-SetupRgstTDD,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-RL-ID,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rgst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-AdditionRgstFDD,
id-RL-informationItem-RL-DeletionRgst,
```

```
id-RL-InformationItem-RL-FailureInd,
id-RL-InformationItem-RL-ReconfPrepFDD.
id-RL-InformationItem-RL-ReconfRgstFDD.
id-RL-InformationItem-RL-RestoreInd.
id-RL-InformationItem-RL-SetupRgstFDD.
id-RL-InformationList-RL-AdditionRgstFDD,
id-RL-informationList-RL-DeletionRgst,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationList-RL-ReconfRgstFDD,
id-RL-InformationList-RL-SetupRgstFDD.
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReady,
id-RL-InformationResponseItem-RL-ReconfRsp.
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReady,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-Information-RL-AdditionRgstTDD,
id-RL-Information-RL-ReconfRqstTDD,
id-RL-Information-RL-ReconfPrepTDD,
id-RL-Information-RL-SetupRgstTDD,
id-RLItem-DM-Rprt,
id-RLItem-DM-Rgst,
id-RLItem-DM-Rsp,
id-RLItem-RL-FailureInd,
id-RLItem-RL-RestoreInd,
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-SetItem-DM-Rqst,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-InformationItem-RL-FailureInd,
id-RL-Set-InformationItem-RL-RestoreInd,
id-RL-SetItem-DM-Rprt,
id-RL-SetItem-DM-Rsp,
id-RL-SetItem-RL-FailureInd,
id-RL-SetItem-RL-RestoreInd,
id-RLSpecificCauseItem-RL-AdditionFailureFDD,
id-RLSpecificCauseItem-RL-AdditionFailureTDD,
id-RLSpecificCauseItem-RL-ReconfFailure,
id-RLSpecificCauseItem-RL-SetupFailureFDD,
id-RLSpecificCauseItem-RL-SetupFailureTDD,
id-S-CCPCH-InformationItem-AuditRsp.
id-S-CCPCH-InformationItem-ResourceStatusInd,
id-S-CPICH-InformationItem-AuditRsp.
id-S-CPICH-InformationItem-ResourceStatusInd,
id-SCH-InformationItem-AuditRsp,
id-SCH-InformationItem-ResourceStatusInd,
id-S-SCH-InformationItem-AuditRsp,
```

```
id-S-SCH-InformationItem-ResourceStatusInd,
id-Secondary-CCPCHItem-CTCH-SetupRgstFDD.
id-Secondary-CCPCHItem-CTCH-SetupRgstTDD,
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD,
id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD.
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD,
id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD,
id-SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD,
id-SecondaryCPICH-InformationItem-Cell-SetupRgstFDD,
id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD,
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,
id-SecondarySCH-Information-Cell-ReconfRqstFDD,
id-SecondarySCH-Information-Cell-SetupRgstFDD,
id-SegmentInformationListIE-SystemInfoUpdate.
id-ServiceImpactingItem-ResourceStatusInd,
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD.
id-SFN,
id-ShutdownTimer,
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,
id-Synchronisation-Configuration-Cell-ReconfRqst,
id-Synchronisation-Configuration-Cell-SetupRost,
id-SyncCase,
id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH,
id-T-Cell.
id-Transmission-Gap-Pattern-Sequence-Information,
id-TimeSlotConfigurationList-Cell-ReconfRgstTDD,
id-TimeSlotConfigurationList-Cell-SetupRgstTDD,
id-TransmissionDiversityApplied,
id-UARFCNforNt,
id-UARFCNforNd,
id-UARFCNforNu,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD.
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRgstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD.
id-UL-DPCH-InformationItem-RL-AdditionRgstTDD,
id-UL-DPCH-InformationList-RL-AdditionRgstTDD,
id-UL-DPCH-InformationList-RL-SetupRqstTDD,
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
```

maxSCPICHCell,

```
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRgstFDD.
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,
id-USCH-information-AddList-RL-ReconfPrepTDD,
id-USCH-Information-AddList-RL-ReconfRqstTDD,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-Information-DeleteList-RL-ReconfRgstTDD,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
id-USCH-Information-ModifyList-RL-ReconfRgstTDD,
id-USCH-InformationResponseListIE-RL-AdditionRspTDD,
id-USCH-InformationResponseListIE-RL-ReconfReady,
id-USCH-InformationResponseListIE-RL-ReconfRsp,
id-USCH-InformationResponseListIE-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCPCHs.
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDLTSs,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSs,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
```

```
maxCellinNodeB,
   maxCCPinNodeB,
   maxLocalCellinNodeB.
   maxNrOfSlotFormatsPRACH,
   maxIB.
   maxIBSEG
FROM NBAP-Constants;
       -- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
__ *********************
CommonTransportChannelSetupRequestFDD ::= SEOUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                 {{CommonTransportChannelSetupRequestFDD-IEs}},
                          ProtocolExtensionContainer {{CommonTransportChannelSetupRequestFDD-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                                                           reject
                                                                                                                             PRESENCE mandatory
                                                            CRITICALITY
                                                                                      TYPE C-ID
    { ID
          id-ConfigurationGenerationID
                                                            CRITICALITY
                                                                           reject
                                                                                      TYPE ConfigurationGenerationID
                                                                                                                                   PRESENCE
   mandatory } |
           id-CommonPhysicalChannelType-CTCH-SetupRqstFDD
                                                                                      TYPE CommonPhysicalChannelType-CTCH-SetupRqstFDD
   { ID
                                                            CRITICALITY
                                                                           ignore
   PRESENCE
              mandatory },
CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
   secondary-CCPCH-parameters
                                 Secondary-CCPCH-CTCH-SetupRqstFDD,
   pRACH-parameters
                                 PRACH-CTCH-SetupRqstFDD,
   pCPCHes-parameters
                                 PCPCH-CTCH-SetupRqstFDD,
Secondary-CCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHIE-CTCH-SetupRqstFDD }}
Secondary-CCPCHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   { ID id-Secondary-CCPCHItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE Secondary-CCPCHItem-CTCH-SetupRqstFDD
                                                                                                               PRESENCE mandatory },
Secondary-CCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                         CommonPhysicalChannelID,
   fdd-S-CCPCH-Offset
                                         FDD-S-CCPCH-Offset,
```

```
dl-ScramblingCode
                                       DL-ScramblingCode,
   fdd-DL-ChannelisationCodeNumber
                                       FDD-DL-ChannelisationCodeNumber.
                 TFCS.
   secondary-CCPCH-SlotFormat
                                       SecondaryCCPCH-SlotFormat,
   t.FCI-Presence
                                       TFCI-Presence OPTIONAL.
   -- This IE is present only if the Secondary CCPCH Slot Format is equal to any value 8 to 17
   multiplexingPosition
                                       MultiplexingPosition,
   powerOffsetInformation
                                       PowerOffsetInformation-CTCH-SetupRgstFDD,
   sTTD-Indicator
                                       STTD-Indicator,
   fACH-Parameters
                                       FACH-ParametersList-CTCH-SetupRqstFDD
                                                                              OPTIONAL,
   -- One of the channels FACH or PCH or both must be present
   pCH-Parameters
                                       PCH-Parameters-CTCH-SetupRqstFDD
                                                                              OPTIONAL,
   -- One of the channels FACH or PCH or both must be present
   iE-Extensions
                                       ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                 OPTIONAL,
Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                       PowerOffset,
   pO3-ForPilotBits
                                       PowerOffset,
                                       ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRgstFDD-ExtIEs} } OPTIONAL.
   iE-Extensions
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}
FACH-ParametersListIEs-CTCH-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
   FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEOUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
                                   CommonTransportChannelID,
   commonTransportChannelID
   transportFormatSet
                                   TransportFormatSet,
                                   ToAWS,
   toAWS
   toAWE
                                   TOAWE,
   maxFACH-Power
                                   DL-Power,
   iE-Extensions
                                   OPTIONAL,
   . . .
```

```
FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Parameters-CTCH-SetupRgstFDD ::= ProtocolIE-Container {{ PCH-ParametersIE-CTCH-SetupRgstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                 CommonTransportChannelID,
   transportFormatSet
                                 TransportFormatSet,
   toAWS
                                 ToAWS,
   t.oAWE
                                 TOAWE,
   pCH-Power
                                 DL-Power,
   pICH-Parameters
                                     PICH-Parameters-CTCH-SetupRgstFDD,
                                 ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} }
   iE-Extensions
PCH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
                                        CommonPhysicalChannelID,
   commonPhysicalChannelID
   dl-ScramblingCode
                                        DL-ScramblingCode,
                                        FDD-DL-ChannelisationCodeNumber,
   fdd-dl-ChannelisationCodeNumber
   pICH-Power
                                        DL-Power,
   pICH-Mode
                                        PICH-Mode,
   sTTD-Indicator
                                        STTD-Indicator,
   iE-Extensions
                                        ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                            OPTIONAL,
PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PRACHIE-CTCH-SetupRqstFDD }}
PRACHIE-CTCH-SetupRastFDD NBAP-PROTOCOL-IES ::= {
   . . .
PRACHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
                                        CommonPhysicalChannelID,
   commonPhysicalChannelID
```

```
ScramblingCodeNumber,
   scramblingCodeNumber
   t.FCS
                                      TFCS.
   preambleSignatures
                                      PreambleSignatures.
   allowedSlotFormatInformation
                                      AllowedSlotFormatInformationList-CTCH-SetupRgstFDD,
   rACH-SubChannelNumbers
                                      RACH-SubChannelNumbers.
   ul-punctureLimit
                                      PunctureLimit,
   preambleThreshold
                                      PreambleThreshold,
   rACH-Parameters
                                      RACH-Parameters-CTCH-SetupRqstFDD,
   iE-Extensions
                                      OPTIONAL,
PRACHITEM-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEOUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
SetupRastFDD
AllowedSlotFormatInformationItem-CTCH-SetupRgstFDD ::= SEQUENCE {
   rACHSlotFormat
                                      RACH-SlotFormat,
   iE-Extensions
                                      OPTIONAL,
   . . .
AllowedSlotFormatInformationItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameters-CTCH-SetupRgstFDD ::= ProtocolIE-Container {{ RACH-ParametersIE-CTCH-SetupRgstFDD }}
RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   . . .
RACH-ParametersItem-CTCH-SetupRgstFDD ::= SEQUENCE
   commonTransportChannelID
                                      CommonTransportChannelID,
   transportFormatSet
                                      TransportFormatSet,
                                      AICH-Parameters-CTCH-SetupRqstFDD,
   aICH-Parameters
                                      iE-Extensions
                                                                                                       OPTIONAL.
RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
```

OPTIONAL,

```
dl-ScramblingCode
                                                 DL-ScramblingCode,
    aICH-TransmissionTiming
                                                 AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber.
    aICH-Power
                                                 DL-Power,
    sTTD-Indicator
                                                 STTD-Indicator.
                                                 ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRgstFDD-ExtIEs} }
    iE-Extensions
    . . .
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PCPCHIE-CTCH-SetupRqstFDD }}
PCPCHIE-CTCH-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCHItem-CTCH-SetupRqstFDD
                                            CRITICALITY reject TYPE PCPCHItem-CTCH-SetupRqstFDD PRESENCE
                                                                                                               optional },
PCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    cPCH-Parameters
                                    CPCH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions
                                     ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                               OPTIONAL,
    . . .
PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonTransportChannelID
                                    CommonTransportChannelID,
    transportFormatSet
                                    TransportFormatSet,
    aPPreambleScramblingCode
                                    CPCHScramblingCodeNumber,
    cDPreambleScramblingCode
                                     CPCHScramblingCodeNumber,
    tFCS
                                    TFCS,
    cDSignatures
                                     PreambleSignatures
                                                                 OPTIONAL,
                                    CDSubChannelNumbers
    cDSubChannelNumbers
                                                                 OPTIONAL,
    -- this IE may be present only if the CD Signatures is present --
    punctureLimit
                                     PunctureLimit,
                                    CPCH-UL-DPCCH-SlotFormat,
    cPCH-UL-DPCCH-SlotFormat
    uL-SIR
                                    UL-SIR,
    initialDL-transmissionPower
                                    DL-Power,
    maximumDI.Power
                                    DL-Power,
   minimumDLPower
                                    DL-Power,
    pO2-ForTPC-Bits
                                    PowerOffset,
    pO3-ForPilotBits
                                     PowerOffset,
    fDD-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    nStartMessage
                                    NStartMessage,
    nEOT
    channel-Assignment-Indication
                                    Channel-Assignment-Indication,
```

```
cPCH-Allowed-Total-Rate
                                    CPCH-Allowed-Total-Rate,
    pCPCHChannelInfomation
                                    PCPCHChannelInformationList-CTCH-SetupRqstFDD,
    vCAMMapping-Information
                                    VCAMMapping-InformationList-CTCH-SetupRgstFDD
                                                                                         OPTIONAL.
    -- this IE is only present if the Channel Assignment Indication is equal to CA Active --
    aP-AICH-Parameters
                                    AP-AICH-Parameters-CTCH-SetupRgstFDD,
    cDCA-ICH-Parameters
                                    CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions
                                    ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                    OPTIONAL.
CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCPCHChannelInformationList-CTCH-SetupRgstFDD ::= SEOUENCE (SIZE (1..maxNrOfPCPCHs)) OF PCPCHChannelInformationItem-CTCH-SetupRgstFDD
PCPCHChannelInformationItem-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
    cPCHScramblingCodeNumber
                                        CPCHScramblingCodeNumber,
    dL-ScramblingCode
                                        DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber
                                        FDD-DL-ChannelisationCodeNumber,
    pCP-Length
                                        PCP-Length,
    uCSM-Information
                                        UCSM-Information-CTCH-SetupRqstFDD
                                                                                 OPTIONAL,
    -- this IE is only present if the Channel Assignment Indication is equal to CA Inactive --
    iE-Extensions
                                        ProtocolExtensionContainer { { PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
                                        MinUL-ChannelisationCodeLength,
    minUL-ChannelisationCodeLength
    nFmax
                                        NFmax,
    channelRequestParameters
                                        ChannelRequestParametersList-CTCH-SetupRqstFDD
                                                                                             OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                             OPTIONAL,
UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ChannelRequestParametersList-CTCH-SetupRgstFDD ::= SEOUENCE (SIZE (1..maxAPSigNum)) OF ChannelRequestParametersItem-CTCH-SetupRgstFDD
ChannelRequestParametersItem-CTCH-SetupRgstFDD ::= SEOUENCE {
    aPPreambleSignature
                                APPreambleSignature,
    aPSubChannelNumber
                                APSubChannelNumber
                                                        OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer {    ChannelRequestParametersItem-CTCH-SetupRgstFDD-ExtIEs} }
                                                                                                                             OPTIONAL,
```

```
ChannelRequestParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
VCAMMapping-InformationList-CTCH-SetupRgstFDD ::= SEQUENCE (SIZE (1..maxNoofLen)) OF VCAMMapping-InformationItem-CTCH-SetupRgstFDD
VCAMMapping-InformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength
                                        MinUL-ChannelisationCodeLength,
    nFmax
                                        NFmax,
    max-Number-of-PCPCHes
                                        Max-Number-of-PCPCHes,
                                        SFRequestParametersList-CTCH-SetupRgstFDD.
    sFRequestParameters
    iE-Extensions
                                        ProtocolExtensionContainer { { VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
VCAMMapping-InformationItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SFRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSiqNum)) OF SFRequestParametersItem-CTCH-SetupRqstFDD
SFRequestParametersItem-CTCH-SetupRgstFDD ::= SEOUENCE {
    aPPreambleSignature
                                APPreambleSignature,
    aPSubChannelNumber
                                APSubChannelNumber
                                                        OPTIONAL.
    iE-Extensions
                                ProtocolExtensionContainer { { SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                       OPTIONAL,
SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION::= {
AP-AICH-Parameters-CTCH-SetupRgstFDD ::= SEOUENCE {
    commonPhysicalChannelID
                                                CommonPhysicalChannelID,
    dl-ScramblingCode
                                                DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber
                                                FDD-DL-ChannelisationCodeNumber,
    aP-AICH-Power
                                                DL-Power,
    cSICH-Power
                                                DL-Power,
    sTTD-Indicator
                                                STTD-Indicator
                                                                    OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL.
AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CDCA-ICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                CommonPhysicalChannelID,
```

```
dl-ScramblingCode
                                            DL-ScramblingCode,
   fdd-dl-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
   cDCA-ICH-Power
                                            DL-Power.
   sTTD-Indicator
                                            STTD-Indicator
                                                               OPTIONAL.
   iE-Extensions
                                            CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs 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
                                                                                                                           PRESENCE mandatory
                                                                                     TYPE C-ID
    { ID
          id-ConfigurationGenerationID
                                                               CRITICALITY reject
                                                                                     TYPE ConfigurationGenerationID
                                                                                                                                 PRESENCE
   mandatory } |
          id-CommonPhysicalChannelType-CTCH-SetupRqstTDD
                                                                                     TYPE CommonPhysicalChannelType-CTCH-SetupRqstTDD
   { ID
                                                               CRITICALITY ignore
   PRESENCE
              mandatory },
CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
   secondary-CCPCH-parameters
                                            Secondary-CCPCH-CTCH-SetupRgstTDD,
   pRACH-parameters
                                            PRACH-CTCH-SetupRqstTDD,
Secondary-CCPCH-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ Secondary-CCPCHIE-CTCH-SetupRqstTDD }}
Secondary-CCPCHIE-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
   { ID id-Secondary-CCPCHItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCHItem-CTCH-SetupRqstTDD
                                                                                                              PRESENCE mandatory },
```

```
Secondary-CCPCHItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                                       CCTrCH-ID.
   secondaryCCPCH-parameterList
                                       Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
   iE-Extensions
                                       ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}
Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD }}
Secondary-CCPCH-parameterListIEs-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
   mandatory },
Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                       CommonPhysicalChannelID,
   tdd-ChannelisationCode
                                       TDD-ChannelisationCode,
   timeslot
                                       TimeSlot.
   burstType
                                       BurstType,
   midambleShift
                                       MidambleShift,
   tdd-PhysicalChannelOffset
                                       TDD-PhysicalChannelOffset,
   repetitionPeriod
                                       RepetitionPeriod,
   repetitionLength
                                       RepetitionLength,
   s-CCPCH-Power
                                       DL-Power,
   fACH-ParametersList
                                       FACH-ParametersList-CTCH-SetupRqstTDD
                                                                               OPTIONAL.
   pCH-Parameters
                                       PCH-Parameters-CTCH-SetupRqstTDD
                                                                           OPTIONAL,
   -- One of the channels FACH or PCH or both must be present
   iE-Extensions
                                       OPTIONAL,
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}
FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   . . .
FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD
```

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```
FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                      CommonTransportChannelID,
   dl-TransportFormatSet
                                      TransportFormatSet,
   t.oAWS
                                      ToAWS,
   toAWE
                                      TOAWE,
   iE-Extensions
                                      OPTIONAL,
FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Parameters-CTCH-SetupRgstTDD ::= ProtocolIE-Container {{ PCH-ParametersIE-CTCH-SetupRgstTDD }}
PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   . . .
PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                      CommonTransportChannelID,
   dl-TransportFormatSet
                                      TransportFormatSet,
   toAWS
                                      ToAWS,
                                      TOAWE.
   t.oAWE
   pICH-Parameters
                                      PICH-Parameters-CTCH-SetupRgstTDD,
   iE-Extensions
                                      ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
                                                                                                                OPTIONAL,
PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   tdd-ChannelisationCode
                                      TDD-ChannelisationCode,
   timeSlot
                                      TimeSlot,
   burstType
                                      BurstType
                                                        OPTIONAL,
   midambleshift
                                      MidambleShift,
                                      TDD-PhysicalChannelOffset,
   tdd-PhysicalChannelOffset
   repetitionPeriod
                                      RepetitionPeriod,
   repetitionLength
                                      RepetitionLength,
                                      PagingIndicatorLength,
   pagingIndicatorLength
   pICH-Power
                                      DL-Power,
   iE-Extensions
                                      ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstTDD-ExtIEs} }
                                                                                                             OPTIONAL,
PICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
PRACH-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ PRACHIE-CTCH-SetupRqstTDD }}
PRACHIE-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
  PRACHItem-CTCH-SetupRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                    CommonPhysicalChannelID,
   timeslot
                                    TimeSlot,
   tdd-ChannelisationCode
                                    TDD-ChannelisationCode,
   maxPRACH-MidambleShifts
                                    MaxPRACH-MidambleShifts
                                                         OPTIONAL,
  pRACH-Midamble
                                    PRACH-Midamble,
   rACH
                                    RACH-Parameter-CTCH-SetupRqstTDD,
   iE-Extensions
                                    OPTIONAL,
PRACHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}
RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   RACH-ParameterItem-CTCH-SetupRgstTDD ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID,
  iE-Extensions
                                    ProtocolExtensionContainer { RACH-ParameterItem-CTCH-SetupRgstTDD-ExtIEs} }
                                                                                                  OPTIONAL,
RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *******************
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
  *****************
CommonTransportChannelSetupResponse ::= SEQUENCE {
   protocolIEs
                    ProtocolIE-Container
                                       {{CommonTransportChannelSetupResponse-IEs}},
                     ProtocolExtensionContainer {{CommonTransportChannelSetupResponse-Extensions}}
  protocolExtensions
                                                                                   OPTIONAL,
```

```
CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-FACH-ParametersList-CTCH-SetupRsp
                                               CRITICALITY ignore
                                                                     TYPE
                                                                             FACH-ParametersList-CTCH-SetupRsp
                                                                                                                PRESENCE optional }
                                                CRITICALITY ignore
     ID
          id-PCH-Parameters-CTCH-SetupRsp
                                                                     TYPE
                                                                                                               PRESENCE optional }
                                                                             PCH-Parameters-CTCH-SetupRsp
     ID
          id-RACH-Parameters-CTCH-SetupRsp
                                                CRITICALITY ignore
                                                                     TYPE
                                                                             RACH-Parameters-CTCH-SetupRsp
                                                                                                               PRESENCE optional }
                                                                                                                     PRESENCE optional } |
                                                CRITICALITY ignore
          id-CPCH-Parameters-CTCH-SetupRsp
                                                                                    CPCH-Parameters-CTCH-SetupRsp
     ID
          id-CriticalityDiagnostics
                                                       CRITICALITY
                                                                      ignore
                                                                                 TYPE
                                                                                       CriticalityDiagnostics
                                                                                                                             PRESENCE
   optional },
CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-SetupRsp ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRsp
FACH-ParametersItem-CTCH-SetupRsp ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID,
   bindingID
                                    BindingID,
   transportLayerAddress
                                    TransportLayerAddress,
   iE-Extensions
                                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRsp-ExtIEs} }
FACH-ParametersItem-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID,
   bindingID
                                    BindingID,
   transportLayerAddress
                                    TransportLayerAddress,
   iE-Extensions
                                    OPTIONAL.
PCH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
   commonTransportChannelID
                                    CommonTransportChannelID,
   bindingID
                                    BindingID,
   transportLayerAddress
                                    TransportLayerAddress,
   iE-Extensions
                                    OPTIONAL,
   . . .
```

```
RACH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
CPCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
   commonTransportChannelID
                                CommonTransportChannelID,
   bindingID
                                BindingID,
   transportLayerAddress
                                TransportLayerAddress,
   iE-Extensions
                                OPTIONAL,
CPCH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     COMMON TRANSPORT CHANNEL SETUP FAILURE
  ******************
CommonTransportChannelSetupFailure ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                          {{CommonTransportChannelSetupFailure-IEs}},
                      ProtocolExtensionContainer {{CommonTransportChannelSetupFailure-Extensions}}
   protocolExtensions
                                                                                          OPTIONAL,
   . . .
CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
         id-Cause
    ID
                                CRITICALITY ignore
                                                    TYPE
                                                           Cause
                                                                                PRESENCE mandatory
    ID
         id-CriticalityDiagnostics CRITICALITY ignore
                                                    TYPE
                                                           CriticalityDiagnostics
                                                                                PRESENCE optional
CommonTransportChannelSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
  CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {
                                          {{CommonTransportChannelReconfigurationRequestFDD-IEs}},
   protocolIEs
                      ProtocolIE-Container
   protocolExtensions
                      ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}}
CommonTransportChannelReconfigurationRequestFDD-IES NBAP-PROTOCOL-IES ::= {
```

```
id-C-ID
     TD
                                                                                TYPE
                                                                                        C-ID
                                                                                                                             PRESENCE mandatory
                                                        CRITICALITY reject
     ID
           id-ConfigurationGenerationID
                                                        CRITICALITY reject
                                                                                TYPE
                                                                                        ConfigurationGenerationID
                                                                                                                             PRESENCE mandatory
     ID
           id-CommonPhysicalChannelType-CTCH-ReconfRgstFDD CRITICALITY reject TYPE
                                                                                        CommonPhysicalChannelType-CTCH-ReconfRgstFDD PRESENCE mandatory
CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE
                                    Secondary-CCPCHList-CTCH-ReconfRgstFDD,
    secondary-CCPCH-parameters
    pRACH-parameters
                                    PRACHList-CTCH-ReconfRgstFDD,
    cPCH-parameters
                                    CPCHList-CTCH-ReconfRqstFDD,
Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHListIEs-CTCH-ReconfRqstFDD }}
Secondary-CCPCHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD
                                                       CRITICALITY reject TYPE Secondary-CCPCHListIE-CTCH-ReconfRqstFDD
                                                                                                                             PRESENCE optional },
Secondary-CCPCHListIE-CTCH-ReconfRgstFDD ::= SEQUENCE {
    fACH-ParametersList-CTCH-ReconfRqstFDD
                                                FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pCH-Parameters-CTCH-ReconfRqstFDD
                                                PCH-Parameters-CTCH-ReconfRqstFDD
                                                                                        OPTIONAL,
   pICH-Parameters-CTCH-ReconfRqstFDD
                                                PICH-Parameters-CTCH-ReconfRqstFDD
                                                                                        OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    . . .
Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-ReconfRgstFDD ::= ProtocolIE-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-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-ParametersItem-CTCH-ReconfRgstFDD
FACH-ParametersItem-CTCH-ReconfRgstFDD ::= SEOUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    maxFACH-Power
                                                            OPTIONAL,
                                            DL-Power
    toAWS
                                            ToAWS
                                                            OPTIONAL,
    toAWE
                                            ToAWE
                                                            OPTIONAL,
```

```
iE-Extensions
                                   OPTIONAL,
FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-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
                                   ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} }
                                                                                                        OPTIONAL
PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ PICH-ParametersIE-CTCH-ReconfRqstFDD }}
PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   . . .
PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                   CommonTransportChannelID,
   pICH-Power
                                   DL-Power,
                                   ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs} }
   iE-Extensions
                                                                                                      OPTIONAL,
   . . .
PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ PRACHListIEs-CTCH-ReconfRqstFDD }}
PRACHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   { ID id-PRACHListIE-CTCH-ReconfrastFDD CRITICALITY reject TYPE PRACHListIE-CTCH-ReconfrastFDD PRESENCE optional },
```

```
PRACHListIE-CTCH-ReconfRgstFDD ::= SEQUENCE
   pRACH-ParametersList-CTCH-ReconfRqstFDD
                                          PRACH-ParametersList-CTCH-ReconfRgstFDD OPTIONAL,
   aICH-ParametersList-CTCH-ReconfRqstFDD
                                          AICH-ParametersList-CTCH-ReconfRgstFDD OPTIONAL,
                                          ProtocolExtensionContainer { { PRACH-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-ParametersList-CTCH-ReconfRgstFDD ::= ProtocolIE-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRgstFDD }}
PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   PRACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-ParametersItem-CTCH-ReconfRqstFDD
PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonPhysicalChannelID
                                   CommonPhysicalChannelID,
   preambleSignatures
                                       PreambleSignatures,
   allowedSlotFormatInformation
                                       AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD OPTIONAL,
   rACH-SubChannelNumbers
                                       RACH-SubChannelNumbers
                                                                OPTIONAL,
   iE-Extensions
                                       OPTIONAL,
PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
ReconfRastFDD
AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE
   rACH-SlotFormat
                                       RACH-SlotFormat,
                                       ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                              OPTIONAL,
   . . .
AllowedSlotFormatInformationItem-CTCH-ReconfRgstFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRgstFDD
AICH-ParametersItem-CTCH-ReconfRgstFDD ::= SEQUENCE {
   commonTransportChannelID
                                          CommonTransportChannelID,
   aICH-Power
                                          DL-Power,
                                          ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                              OPTIONAL,
AICH-ParametersItemIE-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CPCHListIE-CTCH-ReconfRqstFDD }}
CPCHListIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CPCHListItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCHListItem-CTCH-ReconfRqstFDD
                                                                                                   PRESENCE mandatory },
    . . .
CPCHListItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    cPCHListItem-CTCH-ReconfRqstFDD
                                                  CPCHListItem-CTCH-ReconfRqstFDD
                                                                                               OPTIONAL,
   aP-AICH-ParametersList-CTCH-ReconfRqstFDD
                                                  AP-AICH-ParametersList-CTCH-ReconfRqstFDD
                                                                                               OPTIONAL,
   cDCA-ICH-ParametersList-CTCH-ReconfRqstFDD
                                                  CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD
                                                                                               OPTIONAL,
                                                  iE-Extensions
                                                                                                                              OPTIONAL,
CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CPCH-ParametersListIEs-CTCH-ReconfRqstFDD }}
CPCH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD
                                                    CRITICALITY reject TYPE CPCH-ParametersListIE-CTCH-ReconfRqstFDD
                                                                                                                        PRESENCE mandatory },
    . . .
CPCH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CPCH-ParametersItem-CTCH-ReconfRqstFDD
CPCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                   CommonTransportChannelID,
   uL-SIR
                                   UL-SIR
                                                  OPTIONAL,
   initialDL-transmissionPower
                                                  OPTIONAL,
                                  DL-Power
  maximumDLPower
                                   DL-Power
                                                  OPTIONAL,
   minimumDLPower
                                   DL-Power
                                                  OPTIONAL,
```

```
ProtocolExtensionContainer { { CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                               OPTIONAL,
CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AP-AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}
AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   . . .
AP-AICH-ParametersListIE-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-ParametersItem-CTCH-ReconfRgstFDD
AP-AICH-ParametersItem-CTCH-ReconfRgstFDD ::= SEQUENCE {
   commonTransportChannelID
                                  CommonTransportChannelID,
   aP-AICH-Power
                                  DL-Power,
   cSICH-Power
                                  DL-Power,
                                  iE-Extensions
                                                                                                        OPTIONAL,
AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD }}
CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
   . . .
CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-ParametersItem-CTCH-ReconfRqstFDD
CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
   commonTransportChannelID
                                  CommonTransportChannelID,
   cDCA-ICH-Power
                                  DL-Power,
                                  ProtocolExtensionContainer { { CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                        OPTIONAL.
CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ ********************************
```

```
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
  *****************
CommonTransportChannelReconfigurationRequestTDD ::= SEQUENCE {
                         ProtocolIE-Container
                                              {{CommonTransportChannelReconfigurationRequestTDD-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestTDD-Extensions}}
                                                                                                              OPTIONAL.
CommonTransportChannelReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
    ID
                                                          CRITICALITY reject
                                                                                       C-ID
                                                                                                                       PRESENCE
                                                                                                                                  mandatory
    { ID
          id-ConfigurationGenerationID
                                                          CRITICALITY reject
                                                                                TYPE
                                                                                        ConfigurationGenerationID
                                                                                                                            PRESENCE
   mandatory } |
   { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
                                                              CRITICALITY reject TYPE
                                                                                         Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
   PRESENCE optional }|
     ID id-PICH-Parameters-CTCH-ReconfRqstTDD
                                               CRITICALITY reject TYPE PICH-Parameters-CTCH-ReconfRqstTDD
                                                                                                               PRESENCE optional } |
     ID id-FACH-ParametersList-CTCH-ReconfRgstTDD CRITICALITY reject TYPE FACH-ParametersList-CTCH-ReconfRgstTDD PRESENCE optional }
    { ID id-PCH-Parameters-CTCH-ReconfRqstTDD
                                                                      PCH-Parameters-CTCH-ReconfRqstTDD
                                                                                                               PRESENCE optional },
                                               CRITICALITY reject TYPE
   . . .
CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD::= SEQUENCE {
   cCTrCH-ID
                                CCTrCH-ID,
                                Secondary-CCPCHList-CTCH-ReconfRqstTDD
   secondaryCCPCHList
                                                                            OPTIONAL,
                                ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
Secondary-CCPCH-CTCH-ReconfrastTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCHList-CTCH-ReconfRgstTDD ::= ProtocolIE-Container {{ Secondary-CCPCHListIEs-CTCH-ReconfRgstTDD }}
Secondary-CCPCHListIEs-CTCH-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
   . . .
Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD
Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                    CommonPhysicalChannelID,
   sCCPCH-Power
                                    DL-Power,
                                    ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs} } }
   iE-Extensions
                                                                                                                 OPTIONAL,
```

```
Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE
   commonPhysicalChannelID
                                     CommonPhysicalChannelID,
   pICH-Power
                                     DL-Power,
   iE-Extensions
                                     ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                   OPTIONAL,
    . . .
PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-ParametersList-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRgstTDD
FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
   commonTransportChannelID
                                 CommonTransportChannelID,
   toAWS
                                  ToAWS
                                                 OPTIONAL,
   toAWE
                                  ToAWE
                                                 OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                                   OPTIONAL,
FACH-ParametersItem-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Parameters-CTCH-ReconfRgstTDD ::= SEQUENCE {
                                 CommonTransportChannelID,
   commonTransportChannelID
   toAWS
                                  ToAWS
                                                 OPTIONAL,
   toAWE
                                  ToAWE
                                                 OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }
                                                                                                             OPTIONAL,
PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
__ *********************************
CommonTransportChannelReconfigurationResponse ::= SEQUENCE {
```

```
ProtocolIE-Container
                                                {{CommonTransportChannelReconfigurationResponse-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer {{CommonTransportChannelReconfigurationResponse-Extensions}}
                                                                                                               OPTIONAL,
CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CriticalityDiagnostics
                                                                      TYPE
                                                                             CriticalityDiagnostics
                                                                                                    PRESENCE optional },
                                        CRITICALITY
                                                       ignore
   . . .
CommonTransportChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    *****************
  COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
     *****************
CommonTransportChannelReconfigurationFailure ::= SEQUENCE {
                                               {{CommonTransportChannelReconfigurationFailure-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{CommonTransportChannelReconfigurationFailure-Extensions}}
                                                                                                                   OPTIONAL,
   . . .
CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-Cause
                                        CRITICALITY ignore
                                                                  TYPE
                                                                         Cause
                                                                                               PRESENCE mandatory
          id-CriticalityDiagnostics
    ID
                                        CRITICALITY ignore
                                                                  TYPE
                                                                         CriticalityDiagnostics
                                                                                                  PRESENCE optional },
CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ********************
  COMMON TRANSPORT CHANNEL DELETION REQUEST
  ****************
CommonTransportChannelDeletionRequest ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                   {{CommonTransportChannelDeletionRequest-IEs}},
                             ProtocolExtensionContainer {{CommonTransportChannelDeletionRequest-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL.
CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                            CRITICALITY reject
                                                                  TYPE
                                                                                               PRESENCE
                                                                                                          mandatory}
     ID
          id-CommonPhysicalChannelID
                                            CRITICALITY reject
                                                                  TYPE
                                                                         CommonPhysicalChannelID
                                                                                                 PRESENCE mandatory |
```

```
id-ConfigurationGenerationID
                                                                   TYPE
                                              CRITICALITY reject
                                                                          ConfigurationGenerationID PRESENCE mandatory },
CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
       ****************
  COMMON TRANSPORT CHANNEL DELETION RESPONSE
  ******************
CommonTransportChannelDeletionResponse ::= SEQUENCE {
      protocolIEs
                            ProtocolIE-Container
                                                  {{CommonTransportChannelDeletionResponse-IEs}},
                                                 {{CommonTransportChannelDeletionResponse-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                         OPTIONAL,
CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
                                                                TYPE
                                                                       CriticalityDiagnostics
                                                                                               PRESENCE optional },
                                       CRITICALITY
   . . .
CommonTransportChannelDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     -- BLOCK RESOURCE REQUEST
__ *********************
BlockResourceRequest ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                 {{BlockResourceRequest-IEs}},
                        ProtocolExtensionContainer {{BlockResourceRequest-Extensions}}
   protocolExtensions
                                                                                                 OPTIONAL,
BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                                                                               PRESENCE mandatory } |
                                          CRITICALITY reject
                                                                TYPE
     ID
          id-BlockingPriorityIndicator
                                          CRITICALITY reject
                                                                TYPE
                                                                       BlockingPriorityIndicator
                                                                                                 PRESENCE mandatory
                                          CRITICALITY reject
                                                                TYPE
                                                                                               PRESENCE conditional }.
     ID id-ShutdownTimer
                                                                       ShutdownTimer
   -- The IE is present when the Blocking Priority IndicatorIE indicates 'Normal Priority'--
BlockResourceRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

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

```
UnblockResourceIndication ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                             {{UnblockResourceIndication-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{UnblockResourceIndication-Extensions}}
                                                                                      OPTIONAL.
UnblockResourceIndication-IES NBAP-PROTOCOL-IES ::= {
   { ID
         id-C-ID
                                                       C-ID
                                                                           mandatory },
                       CRITICALITY
                                                TYPE
                                                                 PRESENCE
UnblockResourceIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ****************
-- AUDIT REQUIRED INDICATION
__ **********************
AuditRequiredIndication ::= SEQUENCE {
                       ProtocolIE-Container
                                           {{AuditRequiredIndication-IEs}},
   protocolIEs
                       ProtocolExtensionContainer {{AuditRequiredIndication-Extensions}}
   protocolExtensions
                                                                                      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 ::= {
```

```
AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- AUDIT RESPONSE
      AuditResponse ::= SEQUENCE {
   protocolIEs
                              ProtocolIE-Container
                                                      {{AuditResponse-IEs}},
                              ProtocolExtensionContainer {{AuditResponse-Extensions}}
   protocolExtensions
                                                                                            OPTIONAL.
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
           id-NodeBInformation-AuditRep CRITICALITY ignore TYPE NodeBInformation-AuditRsp PRESENCE mandatory}
           id-Cell-InformationList-AuditRsp
     ID
                                                     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-CriticalityDiagnostics
                                                     CRITICALITY
                                                                     ignore
                                                                                    TYPE
                                                                                           CriticalityDiagnostics
                                                                                                                             PRESENCE optional },
    . . .
AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
NodeBInformation-AuditRsp ::= SEQUENCE {
   dl-or-global-capacityCredit
                                              DL-or-Global-CapacityCredit,
   ul-capacityCredit
                                              UL-CapacityCredit
                                                                     OPTIONAL,
    commnonChannelsCapacityConsumptionLaw
                                              CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw
                                              DedicatedChannelsCapacityConsumptionLaw,
                                              ProtocolExtensionContainer { { NodeBInformation-AuditRep-ExtIEs} }
   iE-Extensions
NodeBInformation-AuditRep-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-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 {
    configurationGenerationID
                                          ConfigurationGenerationID,
    resourceOperationalState
                                          ResourceOperationalState,
    availabilityStatus
                                          AvailabilityStatus,
    local-Cell-ID
                                          Local-Cell-ID.
   maximumDL-PowerCapability
                                          MaximumDL-PowerCapability,
                                                                         -- to do: FFS
   minSpreadingFactor
                                          MinSpreadingFactor,
                                                                         -- to do: FFS
    primary-SCH-Information
                                          P-SCH-Information-AuditRsp
                                                                                    OPTIONAL,
                                          S-SCH-Information-AuditRsp
                                                                                    OPTIONAL,
    secondary-SCH-Information
    primary-CPICH-Information
                                          P-CPICH-Information-AuditRsp
                                                                                    OPTIONAL,
    secondary-CPICH-InformationList
                                          S-CPICH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    primary-CCPCH-Information
                                          P-CCPCH-Information-AuditRsp
                                                                                    OPTIONAL,
   bCH-Information
                                          BCH-Information-AuditRsp
                                                                                    OPTIONAL,
    secondary-CCPCH-InformationList
                                          S-CCPCH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    pCH-Information
                                          PCH-Information-AuditRsp
                                                                                    OPTIONAL,
    pICH-Information
                                          PICH-Information-AuditRsp
                                                                                    OPTIONAL,
    fACH-InformationList
                                          FACH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    pRACH-InformationList
                                          PRACH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    rACH-InformationList
                                          RACH-InformationList-AuditRsp
                                                                                    OPTIONAL,
                                          AICH-InformationList-AuditRsp
    aICH-InformationList
                                                                                    OPTIONAL,
   pCPCH-InformationList
                                          PCPCH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    cPCH-InformationList
                                          CPCH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    aP-AICH-InformationList
                                          AP-AICH-InformationList-AuditRsp
                                                                                    OPTIONAL,
    cDCA-ICH-InformationList
                                          CDCA-ICH-InformationList-AuditRsp
                                                                                    OPTIONAL,
                                          SCH-Information-AuditRsp
    sCH-Information
                                                                                    OPTIONAL,
    iE-Extensions
                                          ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs} }
                                                                                                                  OPTIONAL,
Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
P-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-SCH-InformationIE-AuditRsp }}
P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    . . .
P-SCH-InformationItem-AuditRsp ::= SEQUENCE
    commonPhysicalChannelID
                                  CommonPhysicalChannelID,
   resourceOperationalState
                                      ResourceOperationalState,
   availabilityStatus
                                      AvailabilityStatus,
   iE-Extensions
                                      ProtocolExtensionContainer { { P-SCH-InformationItem-AuditRsp-ExtIEs} }
P-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
S-SCH-Information-AuditRsp ::= ProtocolIE-Container {{ S-SCH-InformationIE-AuditRsp }}
S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   S-SCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
   resourceOperationalState
                                ResourceOperationalState,
   availabilityStatus
                                AvailabilityStatus,
   iE-Extensions
                                ProtocolExtensionContainer { S-SCH-InformationItem-AuditRsp-ExtIEs} }
S-SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
P-CPICH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CPICH-InformationIE-AuditRsp }}
P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   . . .
P-CPICH-InformationItem-AuditRsp ::= SEQUENCE
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
                                ResourceOperationalState,
   resourceOperationalState
   availabilityStatus
                                AvailabilityStatus,
                                ProtocolExtensionContainer { { P-CPICH-InformationItem-AuditRsp-ExtIEs} }
   iE-Extensions
                                                                                               OPTIONAL,
P-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-AuditRsp }}
S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
S-CPICH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
   resourceOperationalState
                                ResourceOperationalState,
```

```
availabilityStatus
                                AvailabilityStatus,
   iE-Extensions
                                ProtocolExtensionContainer { S-CPICH-InformationItem-AuditRsp-ExtIEs} }
                                                                                              OPTIONAL,
S-CPICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
P-CCPCH-Information-AuditRsp ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-AuditRsp }}
P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
P-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
   resourceOperationalState
                                ResourceOperationalState,
   availabilityStatus
                                AvailabilityStatus,
   iE-Extensions
                                ProtocolExtensionContainer { { P-CCPCH-InformationItem-AuditRsp-ExtIEs} }
                                                                                              OPTIONAL,
P-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-Information-AuditRsp ::= ProtocolIE-Container {{ BCH-InformationIE-AuditRsp }}
BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
BCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonTransportChannelID
                                CommonTransportChannelID,
   resourceOperationalState
                                ResourceOperationalState,
   availabilityStatus
                                AvailabilityStatus,
   iE-Extensions
                                OPTIONAL,
   . . .
BCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}
S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
```

```
S-CCPCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                   CommonPhysicalChannelID,
   resourceOperationalState
                                   ResourceOperationalState,
   availabilityStatus
                                   AvailabilityStatus,
   iE-Extensions
                                   ProtocolExtensionContainer { S-CCPCH-InformationItem-AuditRsp-ExtIEs} }
                                                                                                         OPTIONAL,
S-CCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Information-AuditRsp ::= ProtocolIE-Container {{ PCH-InformationIE-AuditRsp }}
PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
PCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonTransportChannelID
                                   CommonTransportChannelID,
   resourceOperationalState
                                   ResourceOperationalState,
   availabilityStatus
                                   AvailabilityStatus,
   iE-Extensions
                                   ProtocolExtensionContainer { { PCH-InformationItem-AuditRsp-ExtIEs} }
                                                                                                       OPTIONAL,
   . . .
PCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
PICH-Information-AuditRsp ::= ProtocolIE-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
PICH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                   CommonPhysicalChannelID,
   resourceOperationalState
                                   ResourceOperationalState,
   availabilityStatus
                                   AvailabilityStatus,
                                   ProtocolExtensionContainer { { PICH-InformationItem-AuditRsp-ExtIEs} } 
   iE-Extensions
                                                                                                       OPTIONAL,
PICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
FACH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
FACH-InformationItem-AuditRsp ::= SEQUENCE {
   commonTransportChannelID
                              CommonTransportChannelID,
   resourceOperationalState
                              ResourceOperationalState,
   availabilityStatus
                              AvailabilityStatus,
   iE-Extensions
                              OPTIONAL,
   . . .
FACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-AuditRsp }}
PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
PRACH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                              CommonPhysicalChannelID,
   resourceOperationalState
                              ResourceOperationalState,
   availabilityStatus
                              AvailabilityStatus,
   iE-Extensions
                              PRACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-AuditRsp }}
RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
RACH-InformationItem-AuditRsp ::= SEQUENCE {
   commonTransportChannelID
                              CommonTransportChannelID,
   resourceOperationalState
                              ResourceOperationalState,
   availabilityStatus
                              AvailabilityStatus,
```

```
iE-Extensions
                              OPTIONAL,
RACH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-AuditRsp }}
AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
AICH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                              CommonPhysicalChannelID,
   resourceOperationalState
                              ResourceOperationalState,
   availabilityStatus
                              AvailabilityStatus,
   iE-Extensions
                              ProtocolExtensionContainer { { AICH-InformationItem-AuditRsp-ExtIEs} }
                                                                                        OPTIONAL,
AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCPCH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-AuditRsp }}
PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE optional },
PCPCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                              CommonPhysicalChannelID,
   resourceOperationalState
                              ResourceOperationalState,
   availabilityStatus
                              AvailabilityStatus,
                              iE-Extensions
                                                                                        OPTIONAL,
   . . .
PCPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-AuditRsp }}
CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE optional },
```

```
CPCH-InformationItem-AuditRsp ::= SEOUENCE {
   commonTransportChannelID
                                CommonTransportChannelID,
   resourceOperationalState
                                ResourceOperationalState,
   availabilityStatus
                                AvailabilityStatus,
   iE-Extensions
                                OPTIONAL,
CPCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-AuditRsp }}
AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
AP-AICH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
   resourceOperationalState
                                ResourceOperationalState,
   availabilityStatus
                                AvailabilityStatus,
   iE-Extensions
                                OPTIONAL,
   . . .
AP-AICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}
CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
CDCA-ICH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                CommonPhysicalChannelID,
   resourceOperationalState
                                ResourceOperationalState,
   availabilityStatus
                                AvailabilityStatus,
                                ProtocolExtensionContainer { { CDCA-ICH-InformationItem-AuditRsp-ExtIEs} } }
   iE-Extensions
CDCA-ICH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
SCH-Information-AuditRsp ::= ProtocolIE-Container {{ SCH-InformationIE-AuditRsp }}
SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
SCH-InformationItem-AuditRsp ::= SEQUENCE {
   commonPhysicalChannelID
                                    CommonPhysicalChannelID,
   resourceOperationalState
                                    ResourceOperationalState,
   availabilityStatus
                                    AvailabilityStatus,
   iE-Extensions
                                    OPTIONAL,
   . . .
SCH-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCP-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-AuditRsp }}
CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
   {ID id-CCP-InformationItem-AuditRsp
                                                          ignore
                                                                         TYPE
                                                                                CCP-InformationItem-AuditRsp
                                                                                                                  PRESENCE mandatory },
CCP-InformationItem-AuditRsp ::= SEQUENCE {
   communicationControlPortID
                                    CommunicationControlPortID,
   resourceOperationalState
                                    ResourceOperationalState,
   availabilityStatus
                                    AvailabilityStatus,
                                    ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}
   iE-Extensions
                                                                                                       OPTIONAL,
   . . .
CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE-AuditRsp }}
Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
         id-Local-Cell-InformationItem-AuditRsp
                                                                                    TYPE Local-Cell-InformationItem-AuditRsp
   { ID
                                                       CRITICALITY
                                                                                                                             PRESENCE
                                                                      ignore
   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,
```

```
commnonChannelsCapacityConsumptionLaw
                                              CommonChannelsCapacityConsumptionLaw,
   dedicatedChannelsCapacityConsumptionLaw
                                              DedicatedChannelsCapacityConsumptionLaw,
   maximumDL-PowerCapability
                                              MaximumDL-PowerCapability
                                                                             OPTIONAL.
   iE-Extensions
                                              ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}
                                                                                                                           OPTIONAL,
    . . .
Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- COMMON MEASUREMENT INITIATION REQUEST
         ******************
CommonMeasurementInitiationRequest ::= SEOUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                  {{CommonMeasurementInitiationRequest-IEs}},
                           ProtocolExtensionContainer {{CommonMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
                                                                                                                           PRESENCE mandatory
     ID
           id-MeasurementID
                                                          CRITICALITY reject
                                                                                     TYPE
                                                                                             MeasurementID
    { ID
           id-CommonMeasurementObjectType-CM-Rqst
                                                          CRITICALITY ignore
                                                                                     TYPE
                                                                                             CommonMeasurementObjectType-CM-Rqst
                                                                                                                                    PRESENCE
   mandatory } |
    -- This IE represents both the Common Measurement Object Type IE and the choice based on the Common Measurement Object Type
    -- as described in the tabular message format in subclause 9.1.
           id-CommonMeasurementType
     ID
                                                          CRITICALITY reject
                                                                                     TYPE
                                                                                             CommonMeasurementType
                                                                                                                              PRESENCE mandatory
           id-MeasurementFilterCoefficient
                                                                                     TYPE
                                                                                             MeasurementFilterCoefficient
                                                                                                                                 PRESENCE optional
     ID
                                                          CRITICALITY reject
           id-ReportCharacteristics
     ID
                                                          CRITICALITY reject
                                                                                     TYPE
                                                                                             ReportCharacteristics
                                                                                                                              PRESENCE mandatory
    . . .
CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
   cell
                                  Cell-CM-Rqst,
   rACH
                                  RACH-CM-Rast,
    cPCH
                                  CPCH-CM-Rqst,
    . . .
Cell-CM-Rqst ::= ProtocolIE-Container {{ CellIE-CM-Rqst }}
```

```
CellIE-CM-Rqst NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
CellItem-CM-Rgst ::= SEOUENCE {
   c-ID
                          C-ID.
   timeSlot
                          TimeSlot
                                   OPTIONAL,
  iE-Extensions
                          ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs} }
                                                                        OPTIONAL,
Cellitem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-CM-Rqst ::= ProtocolIE-Container {{ RACHIE-CM-Rqst }}
RACHIE-CM-Rgst NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
RACHItem-CM-Rast ::= SEOUENCE {
   c-ID
                          C-ID,
   commonTransportChannelID
                          CommonTransportChannelID,
                          iE-Extensions
                                                                        OPTIONAL,
RACHItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-CM-Rqst ::= ProtocolIE-Container {{ CPCHIE-CM-Rqst }}
CPCHIE-CM-Rgst NBAP-PROTOCOL-IES ::= {
   PRESENCE optional },
CPCHItem-CM-Rast ::= SEQUENCE {
                          C-ID,
   c-ID
                          CommonTransportChannelID,
   commonTransportChannelID
                          MinUL-ChannelisationCodeLength
   spreadingfactor
                                                     OPTIONAL,
                          iE-Extensions
                                                                        OPTIONAL,
CPCHItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
*****************
  COMMON MEASUREMENT INITIATION RESPONSE
  *******************
CommonMeasurementInitiationResponse ::= SEQUENCE {
                                                 {{CommonMeasurementInitiationResponse-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
                                                                                                       OPTIONAL,
   . . .
CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
           id-MeasurementID
                                                     CRITICALITY ignore
                                                                               TYPE
                                                                                       Measurement.ID
                                                                                                                     PRESENCE mandatory }
     ID
           id-CommonMeasurementObjectType-CM-Rsp
                                                     CRITICALITY ignore
                                                                                                                           PRESENCE mandatory
                                                                               TYPE
                                                                                       CommonMeasurementObjectType-CM-Rsp
                                                                                                                   PRESENCE optional } |
     ID
           id-SFN
                                                     CRITICALITY ignore
                                                                               TYPE
          id-CriticalityDiagnostics
                                                                               TYPE
                                                                                       CriticalityDiagnostics
                                                                                                                        PRESENCE optional },
     ID
                                                     CRITICALITY ignore
CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
   cell
                              Cell-CM-Rsp,
   rACH
                              RACH-CM-Rsp,
   cPCH
                              CPCH-CM-Rsp,
Cell-CM-Rsp ::= ProtocolIE-Container {{ CellIE-CM-Rsp }}
CelliE-CM-Rsp NBAP-PROTOCOL-IES ::= {
   { ID id-CellItem-CM-Rsp CRITICALITY ignore TYPE CellItem-CM-Rsp
                                                                           PRESENCE mandatory },
CellItem-CM-Rsp ::= SEOUENCE {
   commonMeasurementValue
                                  CommonMeasurementValue,
                                  ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                            OPTIONAL,
   . . .
Cellitem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
RACH-CM-Rsp ::= ProtocolIE-Container {{ RACHIE-CM-Rsp }}
RACHIE-CM-Rsp NBAP-PROTOCOL-IES ::= {
   TYPE RACHItem-CM-Rsp
                                                                      PRESENCE mandatory },
   . . .
RACHItem-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                               CommonMeasurementValue,
                               ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                     OPTIONAL,
RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-CM-Rsp ::= ProtocolIE-Container {{ CPCHIE-CM-Rsp }}
CPCHIE-CM-Rsp NBAP-PROTOCOL-IES ::= {
   TYPE CPCHItem-CM-Rsp
                                                                      PRESENCE optional },
   . . .
CPCHItem-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                               CommonMeasurementValue,
                               ProtocolExtensionContainer { { CPCHItem-CM-Rsp-ExtIEs} }
   iE-Extensions
                                                                                     OPTIONAL,
CPCHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- COMMON MEASUREMENT INITIATION FAILURE
  *****************
CommonMeasurementInitiationFailure ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                             {{CommonMeasurementInitiationFailure-IEs}},
                        ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}
   protocolExtensions
                                                                                               OPTIONAL,
CommonMeasurementInitiationFailure-IES NBAP-PROTOCOL-IES ::= {
     ID
          id-MeasurementID
                                                                                             PRESENCE mandatory
                                      CRITICALITY
                                                    ignore
                                                                  TYPE
                                                                         MeasurementID
     ID
          id-Cause
                                      CRITICALITY
                                                    ignore
                                                                  TYPE
                                                                                             PRESENCE mandatory
                                                                         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}},
   protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}
                                                                                           OPTIONAL,
CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
                                                                              TYPE
     ID
           id-MeasurementID
                                                    CRITICALITY ignore
                                                                                      Measurement.ID
                                                                                                                    PRESENCE mandatory } |
     ID
           id-CommonMeasurementObjectType-CM-Rprt
                                                    CRITICALITY ignore
                                                                              TYPE
                                                                                      CommonMeasurementObjectType-CM-Rprt PRESENCE mandatory
                                                                              TYPE
                                                                                                                  PRESENCE optional },
    ID
          id-SFN
                                                    CRITICALITY ignore
                                                                                      SFN
   . . .
CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
   cell
                                 Cell-CM-Rprt,
   rACH
                                 RACH-CM-Rprt,
   cPCH
                                 CPCH-CM-Rprt,
Cell-CM-Rprt ::= ProtocolIE-Container {{ CellIE-CM-Rprt }}
CellIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
   { ID id-CellItem-CM-Rprt CRITICALITY ignore TYPE CellItem-CM-Rprt
                                                                           PRESENCE mandatory },
   . . .
CellItem-CM-Rprt::= SEQUENCE {
   measurementAvailabilityIndicator
                                   MeasurementAvailabilityIndicator-CommonMeasurementReport,
                                 ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
   iE-Extensions
```

. . .

```
CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-CM-Rprt ::= ProtocoliE-Container {{ RACHIE-CM-Rprt }}
RACHIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
   { ID id-RACHItem-CM-Rprt CRITICALITY ignore TYPE RACHItem-CM-Rprt
                                                                      PRESENCE mandatory },
   . . .
RACHItem-CM-Rprt::= SEQUENCE {
   measurementAvailabilitvIndicator
                                  MeasurementAvailabilityIndicator-CommonMeasurementReport,
   iE-Extensions
                               OPTIONAL,
RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-CM-Rprt ::= ProtocolIE-Container {{    CPCHIE-CM-Rprt }}
CPCHIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
   { ID id-CPCHItem-CM-Rprt CRITICALITY ignore TYPE CPCHItem-CM-Rprt
                                                                      PRESENCE optional },
   . . .
CPCHItem-CM-Rprt::= SEQUENCE {
   commonMeasurementValue
                               CommonMeasurementValue,
                               ProtocolExtensionContainer {{    CPCHItem-CM-Rprt-ExtIEs }}
   iE-Extensions
                                                                                        OPTIONAL,
   . . .
CPCHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MeasurementAvailabilityIndicator-CommonMeasurementReport::= CHOICE {
   measurementAvailable
                            MeasurementAvailable-CommonMeasurementReport,
   measurementnotAvailable
                            MeasurementnotAvailable-CommonMeasurementReport,
MeasurementAvailable-CommonMeasurementReport::= ProtocolIE-Container {{ MeasurementAvailableIE-CommonMeasurementReport }}
MeasurementAvailableIE-CommonMeasurementReport NBAP-PROTOCOL-IES ::= {
   mandatory },
```

```
MeasurementAvailableItem-CommonMeasurementReport ::= SEOUENCE {
   commonmeasurementValue
                            CommonMeasurementValue,
   ie-Extensions
                            ProtocolExtensionContainer { { MeasurementAvailableItem-CommonMeasurementReport-ExTIEs} }
                                                                                                                   OPTIONAL.
MeasurementAvailableItem-CommonMeasurementReport-ExTIES NBAP-PROTOCOL-EXTENSION ::= {
MeasurementnotAvailable-CommonMeasurementReport: = ProtocolIE-Container {{ MeasurementnotAvailableIE-CommonMeasurementReport }}
MeasurementnotAvailableIE-CommonMeasurementReport NBAP-PROTOCOL-IES ::= {
   { ID id-MeasurementnotAvailableItem-CommonMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-CommonMeasurementReport PRESENCE
mandatory \},
MeasurementnotAvailableItem-CommonMeasurementReport ::= NULL
    ******************
-- COMMON MEASUREMENT TERMINATION REQUEST
__ *******************************
CommonMeasurementTerminationRequest ::= SEQUENCE {
                                               {{CommonMeasurementTerminationRequest-IEs}},
   protocolIEs
                        ProtocolIE-Container
   protocolExtensions
                        ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}}
CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-MeasurementID
                                   CRITICALITY
                                                  ignore
                                                                    TYPE
                                                                                             PRESENCE mandatory },
                                                                            MeasurementID
CommonMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ***************
-- COMMON MEASUREMENT FAILURE INDICATION
  ******************
CommonMeasurementFailureIndication ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                               {{CommonMeasurementFailureIndication-IEs}},
```

```
protocolExtensions
                              ProtocolExtensionContainer {{CommonMeasurementFailureIndication-Extensions}}
                                                                                                               OPTIONAL,
CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
           id-MeasurementID
                                     CRITICALITY ignore
                                                                       MeasurementID
                                                                                            PRESENCE mandatory
                                                                TYPE
   { ID
           id-Cause
                                     CRITICALITY ignore
                                                                TYPE
                                                                                            PRESENCE mandatory
                                                                       Cause
   . . .
CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- CELL SETUP REQUEST FDD
  *****************
CellSetupRequestFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CellSetupRequestFDD-IEs}},
                          ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}}
   protocolExtensions
                                                                                          OPTIONAL,
CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-Local-Cell-ID
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE Local-Cell-ID
                                                                                                                                      PRESENCE
   mandatory } |
         id-C-ID
   { ID
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE C-ID
                                                                                                                                   PRESENCE
   mandatory }|
          id-ConfigurationGenerationID
                                                                                            TYPE ConfigurationGenerationID
   { ID
                                                                CRITICALITY
                                                                               reject
   PRESENCE mandatory } |
          id-T-Cell
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE T-Cell
                                                                                                                                      PRESENCE
   { ID
   mandatory } |
   { ID
          id-UARFCNforNu
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE UARFCN
                                                                                                                                      PRESENCE
   mandatory } |
          id-UARFCNforNd
   { ID
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE UARFCN
                                                                                                                                      PRESENCE
   mandatory }|
   { ID
          id-MaximumTransmissionPower
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE MaximumTransmissionPower
   PRESENCE
              mandatory }|
          id-Closed-Loop-Timing-Adjustment-Mode
   { ID
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE Closedlooptimingadjustmentmode
              optional
   PRESENCE
          id-PrimaryScramblingCode
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE PrimaryScramblingCode
   { ID
              mandatory }|
   PRESENCE
         id-DL-TPC-Pattern01Count
    { ID
                                                                CRITICALITY
                                                                               reject
                                                                                              TYPE DL-TPC-Pattern01Count
   PRESENCE
              mandatory } |
          id-Synchronisation-Configuration-Cell-SetupRqst
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE Synchronisation-Configuration-Cell-SetupRqst
    { ID
   PRESENCE
               mandatory } |
          id-PrimarySCH-Information-Cell-SetupRgstFDD
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE PrimarySCH-Information-Cell-SetupRgstFDD
   PRESENCE
              mandatory }|
```

```
PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
    transmitDiversityIndicator
                                            TransmitDiversityIndicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                                   OPTIONAL.
PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container{{ SecondaryCPICH-InformationItemIE-
Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
           id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
                                                                    CRITICALITY
                                                                                     reject
                                                                                                  TYPE SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
        PRESENCE
                    mandatory },
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
    secondaryCPICH-Power
                                            DL-Power,
    transmitDiversityIndicator
                                            TransmitDiversityIndicator,
                                            ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCCPCH-Information-Cell-SetupRgstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
   bCH-information
                                            BCH-Information-Cell-SetupRgstFDD,
    sTTD-Indicator
                                            STTD-Indicator,
                                            ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                   OPTIONAL,
PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-Information-Cell-SetupRgstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
```

```
bCH-Power
                                         DL-Power,
   iE-Extensions
                                         ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                 OPTIONAL.
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
   powerRaiseLimit
                                         PowerRaiseLimit,
   dLPowerAveragingWindowSize
                                         DLPowerAveragingWindowSize,
   iE-Extensions
                                         ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                                     OPTIONAL,
Limited-power-increase-information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- CELL SETUP REQUEST TDD
__ *******************
CellSetupRequestTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CellSetupRequestTDD-IEs}},
                          ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}}
   protocolExtensions
                                                                                          OPTIONAL,
CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
        id-Local-Cell-ID
                                                            CRITICALITY
                                                                                                                                PRESENCE
   { ID
                                                                           reject
                                                                                      TYPE Local-Cell-ID
   mandatory }|
       { ID
             id-C-ID
                                                               CRITICALITY
                                                                               reject
                                                                                          TYPE C-ID
                                                                                                                                PRESENCE
   mandatory }|
          id-ConfigurationGenerationID
                                                                                      TYPE ConfigurationGenerationID
   { ID
                                                            CRITICALITY
                                                                           reject
                                                                                                                                  PRESENCE
   mandatory } |
   { ID
           id-UARFCNforNt
                                                               CRITICALITY
                                                                               reject
                                                                                          TYPE UARFCN
                                                                                                                                   PRESENCE
   mandatory } |
   { ID
           id-CellParameterID
                                                            CRITICALITY
                                                                           reject
                                                                                      TYPE CellParameterID
                                                                                                                                   PRESENCE
   mandatory } |
          id-MaximumTransmissionPower
   { ID
                                                            CRITICALITY
                                                                           reject
                                                                                      TYPE MaximumTransmissionPower
                                                                                                                                  PRESENCE
   mandatory }
           id-TransmissionDiversityApplied
   { ID
                                                            CRITICALITY
                                                                           reject
                                                                                      TYPE TransmissionDiversityApplied
                                                                                                                                  PRESENCE
   mandatory } |
   { ID
           id-SyncCase
                                                            CRITICALITY
                                                                           reject
                                                                                      TYPE SyncCase
                                                                                                                             PRESENCE
   mandatory }|
          id-DPCHConstant
   { ID
                                                           CRITICALITY
                                                                           reject
                                                                                      TYPE ConstantValue
                                                                                                                                  PRESENCE
   mandatory } |
```

```
CaselItem-Cell-SetupRqstTDD ::= SEQUENCE
   timeSlot
   iE-Extensions
                                      ProtocolExtensionContainer { { CaselItem-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                             OPTIONAL,
    . . .
CaselItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Case2-Cell-SetupRqstTDD ::= ProtocolIE-Container {{ Case2IE-Cell-SetupRqstTDD }}
Case2IE-Cell-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
   TYPE Case2Item-Cell-SetupRqstTDD
                                                                                                 PRESENCE mandatory },
Case2Item-Cell-SetupRqstTDD ::= SEQUENCE {
   sCH-TimeSlot
   iE-Extensions
                                      ProtocolExtensionContainer { Case2Item-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                             OPTIONAL,
    . . .
Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   tdd-PhysicalChannelOffset
                                          TDD-PhysicalChannelOffset,
   repetitionPeriod
                                          RepetitionPeriod,
   repetitionLength
                                          RepetitionLength,
   pCCPCH-Power
                                          PCCPCH-Power,
   blockSTTD-Indicator
                                          BlockSTTD-Indicator,
   iE-Extensions
                                          ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} }
                                                                                                                        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 ::= {
  ****************
-- CELL SETUP RESPONSE
  CellSetupResponse ::= SEQUENCE
                                               {{CellSetupResponse-IEs}},
   protocolIEs
                           ProtocolIE-Container
                          ProtocolExtensionContainer {{CellSetupResponse-Extensions}}
   protocolExtensions
                                                                                  OPTIONAL,
   . . .
CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
         id-CriticalityDiagnostics
                                                                      CriticalityDiagnostics PRESENCE optional },
                                     CRITICALITY
                                                  ignore
                                                                TYPE
   . . .
CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  -- CELL SETUP FAILURE
  *****************
CellSetupFailure ::= SEQUENCE {
                       ProtocolIE-Container
                                           {{CellSetupFailure-IEs}},
   protocolIEs
                       ProtocolExtensionContainer {{CellSetupFailure-Extensions}}
   protocolExtensions
                                                                                 OPTIONAL,
   . . .
CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
         id-Cause
    ID
                                        CRITICALITY
                                                      ignore
                                                                   TYPE
                                                                                            PRESENCE mandatory } |
                                                                          Cause
    ID
         id-CriticalityDiagnostics
                                                                   TYPE
                                                                          CriticalityDiagnostics
                                                                                                 PRESENCE optional },
                                        CRITICALITY
                                                      ignore
CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

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

```
PrimaryCCPCH-Information-Cell-ReconfRgstFDD ::= SEOUENCE {
   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-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ******************
  CELL RECONFIGURATION REQUEST TDD
  *******************
CellReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{CellReconfigurationRequestTDD-IEs}},
                         ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                                                                                              OPTIONAL,
   . . .
CellReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
     ID
          id-C-ID
                                                          CRITICALITY
                                                                        reject
                                                                                   TYPE C-ID
                                                                                                                         PRESENCE mandatory
          id-ConfigurationGenerationID
                                                                                   TYPE ConfigurationGenerationID
   { ID
                                                          CRITICALITY
                                                                        reject
                                                                                                                              PRESENCE
   mandatory } |
          id-Synchronisation-Configuration-Cell-ReconfRqst
   { ID
                                                          CRITICALITY
                                                                        reject
                                                                                   TYPE Synchronisation-Configuration-Cell-ReconfRqst
   PRESENCE
              optional }|
          id-SCH-Information-Cell-ReconfRqstTDD
                                                                                   TYPE SCH-Information-Cell-ReconfRqstTDD
   { ID
                                                                        reject
                                                                                                                                 PRESENCE
                                                          CRITICALITY
   optional
         id-PCCPCH-Information-Cell-ReconfRqstTDD
                                                                                   TYPE PCCPCH-Information-Cell-ReconfRqstTDD
   { ID
                                                          CRITICALITY
                                                                        reject
                                                                                                                                 PRESENCE
   optional
   { ID
          id-MaximumTransmissionPower
                                                          CRITICALITY
                                                                        reject
                                                                                   TYPE MaximumTransmissionPower
                                                                                                                              PRESENCE
   optional
   { ID
          id-DPCHConstant
                                                          CRITICALITY
                                                                        reject
                                                                                   TYPE ConstantValue
                                                                                                                              PRESENCE
   optional
```

```
-- CELL RECONFIGURATION RESPONSE
__ *********************
CellReconfigurationResponse ::= SEQUENCE {
                                                  {{CellReconfigurationResponse-IEs}},
   protocolIEs
                            ProtocolIE-Container
   protocolExtensions
                            ProtocolExtensionContainer {{CellReconfigurationResponse-Extensions}}
                                                                                               OPTIONAL.
CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
                                                      ignore
                                                                    TYPE
                                                                           CriticalityDiagnostics
                                                                                                  PRESENCE optional },
   . . .
CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    *****************
  CELL RECONFIGURATION FAILURE
__ *********************
CellReconfigurationFailure ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                             {{CellReconfigurationFailure-IEs}},
                        ProtocolExtensionContainer {{CellReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                          OPTIONAL,
CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
          id-Cause
                                       CRITICALITY
                                                      ignore
                                                                    TYPE
                                                                           Cause
                                                                                                  PRESENCE
                                                                                                             mandatory }|
          id-CriticalityDiagnostics
                                                                           CriticalityDiagnostics
                                                                                                     PRESENCE optional },
   { ID
                                       CRITICALITY
                                                     ignore
                                                                    TYPE
CellReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
-- CELL DELETION REQUEST
__ ********************************
CellDeletionRequest ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                              {{CellDeletionRequest-IEs}},
                        ProtocolExtensionContainer {{CellDeletionRequest-Extensions}}
   protocolExtensions
                                                                                      OPTIONAL,
```

```
CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID
         id-C-ID
                       CRITICALITY
                                      reject
                                                    TYPE
                                                           C-ID
                                                                     PRESENCE
                                                                               mandatory },
   . . .
CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
__ ********************
-- CELL DELETION RESPONSE
  *****************
CellDeletionResponse ::= SEQUENCE {
                       ProtocolIE-Container
                                             {{CellDeletionResponse-IEs}},
   protocolIEs
                       ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}
   protocolExtensions
                                                                                   OPTIONAL,
CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
         id-CriticalityDiagnostics
                                                                        CriticalityDiagnostics PRESENCE optional },
   { ID
                                     CRITICALITY
                                                    ignore
                                                                 TYPE
   . . .
CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- RESOURCE STATUS INDICATION
__ ********************
ResourceStatusIndication ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                             {{ResourceStatusIndication-IEs}},
                       ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}} OPTIONAL,
   protocolExtensions
ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
         id-IndicationType-ResourceStatusInd
    ID
                                                CRITICALITY
                                                              ignore
                                                                            TYPE
                                                                                   IndicationType-ResourceStatusInd
                                                                                                                   PRESENCE mandatory
   { ID
          id-Cause
                                                CRITICALITY
                                                              ignore
                                                                            TYPE
                                                                                   Cause
                                                                                                              PRESENCE
                                                                                                                         optional },
```

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```
ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
IndicationType-ResourceStatusInd ::= CHOICE
   no-Failure
                                      No-Failure-ResourceStatusInd,
   serviceImpacting
                                      ServiceImpacting-ResourceStatusInd,
   cellControl
                                      NULL,
No-Failure-ResourceStatusInd ::= ProtocolIE-Container {{ No-FailureIE-ResourceStatusInd }}
No-FailureIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
No-FailureItem-ResourceStatusInd ::= SEQUENCE
   nodeB-Information-ResourceStatusInd
                                      NodeB-Information-ResourceStatusInd,
   local-Cell-InformationList
                                      Local-Cell-InformationList-ResourceStatusInd,
                                      ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
   iE-Extensions
No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NodeB-Information-ResourceStatusInd ::= SEQUENCE {
   dl-or-global-capacityCredit
                                          DL-or-Global-CapacityCredit,
   ul-capacityCredit
                                         UL-CapacityCredit
                                                              OPTIONAL,
   commnonChannelsCapacityConsumptionLaw
                                          CommonChannelsCapacityConsumptionLaw,
   dedicatedChannelsCapacityConsumptionLaw
                                          DedicatedChannelsCapacityConsumptionLaw,
                                          ProtocolExtensionContainer { { NodeB-Information-ResourceStatusInd-ExtIEs} } OPTIONAL,
   iE-Extensions
NodeB-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-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 is present only if "AddorDeleteIndicator" equals add
    ul-capacityCredit
                                              UL-CapacityCredit
                                                                      OPTIONAL,
    commnonChannelsCapacityConsumptionLaw
                                              CommonChannelsCapacityConsumptionLaw
                                                                                      OPTIONAL.
    -- This IE is present only if "AddorDeleteIndicator" equals add
   dedicatedChannelsCapacityConsumptionLaw
                                              DedicatedChannelsCapacityConsumptionLaw
                                                                                         OPTIONAL,
    -- This IE is present only if "AddorDeleteIndicator" equals add
   maximumDL-PowerCapability
                                              MaximumDL-PowerCapability,
                                              ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs} }OPTIONAL,
   iE-Extensions
Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ServiceImpacting-ResourceStatusInd ::= ProtocolIE-Container {{ ServiceImpactingIE-ResourceStatusInd }}
ServiceImpactingIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory },
    . . .
ServiceImpactingItem-ResourceStatusInd ::= SEOUENCE
    nodeB-Information-Service
                                          NodeB-Information-Service-ResourceStatusInd
                                                                                         OPTIONAL,
   local-Cell-InformationList
                                          Local-Cell-InformationList2-ResourceStatusInd
                                                                                         OPTIONAL,
    cCP-InformationList
                                           CCP-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
    cell-InformationList
                                          Cell-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
   primary-SCH-Information
                                          P-SCH-Information-ResourceStatusInd
                                                                                         OPTIONAL,
    secondary-SCH-Information
                                          S-SCH-Information-ResourceStatusInd
                                                                                         OPTIONAL,
   primary-CPICH-Information
                                          P-CPICH-Information-ResourceStatusInd
                                                                                         OPTIONAL,
    secondary-CPICH-Information
                                          S-CPICH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
   primary-CCPCH-Information
                                          P-CCPCH-Information-ResourceStatusInd
                                                                                         OPTIONAL,
    bCH-Information
                                          BCH-Information-ResourceStatusInd
                                                                                         OPTIONAL,
                                          S-CCPCH-InformationList-ResourceStatusInd
    secondary-CCPCH-InformationList
                                                                                         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-ResourceStatusInd
    rACH-InformationList
                                                                                         OPTIONAL,
    aICH-InformationList
                                          ATCH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
    pCPCH-InformationList
                                          PCPCH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
    cPCH-InformationList
                                          CPCH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
    aP-AICH-InformationList
                                          AP-AICH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
    cDCA-ICH-InformationList
                                          CDCA-ICH-InformationList-ResourceStatusInd
                                                                                         OPTIONAL,
    sCH-Information
                                          SCH-Information-ResourceStatusInd
                                                                                         OPTIONAL,
                                          ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs} }
                                                                                                                            OPTIONAL,
   iE-Extensions
```

```
ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
NodeB-Information-Service-ResourceStatusInd ::= SEQUENCE {
   dl-or-global-capacityCredit
                                        DL-or-Global-CapacityCredit
                                                                   OPTIONAL,
   ul-capacityCredit
                                        UL-CapacityCredit
                                                                   OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { { NodeB-Information-Service-ResourceStatusInd-ExtIEs} }
                                                                                                                 OPTIONAL,
NodeB-Information-Service-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Container {{ Local-Cell-InformationItemIE2-
ResourceStatusInd }}
Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   },
   . . .
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,
   maximum-DL-PowerCapability
                                    MaximumDL-PowerCapability
                                                               OPTIONAL,
                                    ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs} }
   iE-Extensions
                                                                                                               OPTIONAL,
   . . .
Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CCP-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Container {{ CCP-InformationItemIE-ResourceStatusInd }}
CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
                                                                                                  PRESENCE mandatory },
   CCP-InformationItem-ResourceStatusInd ::= SEOUENCE {
   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-Container {{ Cell-InformationItemIE-ResourceStatusInd }}
Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   . . .
Cell-InformationItem-ResourceStatusInd ::= SEOUENCE {
                                   C-ID,
   resourceOperationalState
                                   ResourceOperationalState,
                                   AvailabilityStatus,
   availabilityStatus
                                                          --to do: FFS
   maximumDL-PowerCapability
                                   MaximumDL-PowerCapability, --to do: FFS
   minSpreadingFactor
                                   MinSpreadingFactor,
   iE-Extensions
                                   ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-SCH-InformationIE-ResourceStatusInd }}
P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
P-SCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                               CommonPhysicalChannelID,
   resourceOperationalState
                                   ResourceOperationalState,
   availabilityStatus
                                   AvailabilityStatus,
   iE-Extensions
                                   ProtocolExtensionContainer { { P-SCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
P-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ S-SCH-InformationIE-ResourceStatusInd }}
S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
```

```
S-SCH-InformationItem-ResourceStatusInd ::= SEOUENCE {
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   resourceOperationalState
                                      ResourceOperationalState,
   availabilityStatus
                                      AvailabilityStatus,
   iE-Extensions
                                      ProtocolExtensionContainer { { S-SCH-InformationItem-ResourceStatusInd-ExtIEs} }
S-SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}
P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
P-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                                      CommonPhysicalChannelID,
   resourceOperationalState
                                      ResourceOperationalState,
   availabilityStatus
                                      AvailabilityStatus,
                                      ProtocolExtensionContainer { { P-CPICH-InformationItem-ResourceStatInd-ExtIEs} }
   iE-Extensions
P-CPICH-InformationItem-ResourceStatInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd
}}
S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
S-CPICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                                         CommonPhysicalChannelID,
   resourceOperationalState
                                         ResourceOperationalState,
   availabilityStatus
                                         AvailabilityStatus,
   iE-Extensions
                                         ProtocolExtensionContainer { { S-CPICH-InformationItem-ResourceStatusInd-ExtIEs} }
S-CPICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}
P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
P-CCPCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                                     CommonPhysicalChannelID,
                                     ResourceOperationalState,
   resourceOperationalState
   availabilityStatus
                                     AvailabilityStatus,
   iE-Extensions
                                     ProtocolExtensionContainer { { P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs} }
P-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
BCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ BCH-InformationIE-ResourceStatusInd }}
BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
BCH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonTransportChannelID
                                     CommonTransportChannelID,
   resourceOperationalState
                                     ResourceOperationalState,
   availabilityStatus
                                     AvailabilityStatus,
                                     iE-Extensions
                                                                                                     OPTIONAL,
   . . .
BCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd
}}
S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
S-CCPCH-InformationItem-ResourceStatusInd ::= SEOUENCE {
   commonPhysicalChannelID
                                     CommonPhysicalChannelID,
```

```
resourceOperationalState
                                          ResourceOperationalState,
   availabilityStatus
                                          AvailabilityStatus,
   iE-Extensions
                                          ProtocolExtensionContainer { { S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs} }
S-CCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PCH-InformationIE-ResourceStatusInd }}
PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
PCH-InformationItem-ResourceStatusInd ::= SEQUENCE
   commonTransportChannelID
                                          CommonTransportChannelID,
   resourceOperationalState
                                          ResourceOperationalState,
   availabilityStatus
                                         AvailabilityStatus,
                                          ProtocolExtensionContainer { { PCH-InformationItem-ResourceStatusInd-ExtIEs} }
   iE-Extensions
                                                                                                                 OPTIONAL,
PCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ PICH-InformationIE-ResourceStatusInd }}
PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   . . .
PICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   resourceOperationalState
                                          ResourceOperationalState,
   availabilityStatus
                                          AvailabilityStatus,
                                          ProtocolExtensionContainer { { PICH-InformationItem-ResourceStatusInd-ExtIEs} } 
   iE-Extensions
   . . .
PICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Container {{ FACH-InformationItemIE-ResourceStatusInd }}
FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
```

```
PRESENCE mandatory },
   FACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonTransportChannelID
                                        CommonTransportChannelID,
   resourceOperationalState
                                        ResourceOperationalState,
   availabilityStatus
                                        AvailabilityStatus,
   iE-Extensions
                                        ProtocolExtensionContainer { { FACH-InformationItem-ResourceStatusInd-ExtIEs} }
                                                                                                              OPTIONAL,
FACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PRACH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}
PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   TYPE PRACH-InformationItem-ResourceStatusInd
                                                                                                         PRESENCE mandatory },
   . . .
PRACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   resourceOperationalState
                                        ResourceOperationalState,
   availabilityStatus
                                        AvailabilityStatus,
                                        ProtocolExtensionContainer { { PRACH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
   iE-Extensions
PRACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ RACH-InformationItemIE-ResourceStatusInd }}
RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   RACH-InformationItem-ResourceStatusInd ::= SEQUENCE {
      commonTransportChannelID
                                            CommonTransportChannelID,
      resourceOperationalState
                                            ResourceOperationalState,
                                            AvailabilityStatus,
      availabilityStatus
      iE-Extensions
                                            ProtocolExtensionContainer { { RACH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
      . . .
RACH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Container {{ AICH-InformationItemIE-ResourceStatusInd }}
AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   . . .
AICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
                                          CommonPhysicalChannelID,
   commonPhysicalChannelID
   resourceOperationalState
                                          ResourceOperationalState,
   availabilityStatus
                                          AvailabilityStatus,
   iE-Extensions
                                          ProtocolExtensionContainer { { AICH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL.
AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}
PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   { ID id-PCPCH-InformationItem-ResourceStatusInd CRITICALITY ignore
                                                                  TYPE PCPCH-InformationItem-ResourceStatusInd
                                                                                                             PRESENCE optional },
   . . .
PCPCH-InformationItem-ResourceStatusInd ::= SEOUENCE {
   commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   resourceOperationalState
                                          ResourceOperationalState,
   availabilityStatus
                                          AvailabilityStatus,
                                          ProtocolExtensionContainer { { PCPCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
PCPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CPCH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}
CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   CPCH-InformationItem-ResourceStatusInd ::= SEOUENCE {
       commonTransportChannelID
                                              CommonTransportChannelID,
       resourceOperationalState
                                              ResourceOperationalState,
       availabilityStatus
                                              AvailabilityStatus,
                                              ProtocolExtensionContainer { { CPCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
       iE-Extensions
```

```
CPCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AP-AICH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd
}}
AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE optional },
AP-AICH-InformationItem-ResourceStatusInd ::= SEOUENCE {
                                       CommonPhysicalChannelID,
   commonPhysicalChannelID
   resourceOperationalState
                                       ResourceOperationalState,
   availabilityStatus
                                       AvailabilityStatus,
                                       ProtocolExtensionContainer { { AP-AICH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
   iE-Extensions
AP-AICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CDCA-ICH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd
}}
CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE optional },
   . . .
CDCA-ICH-InformationItem-ResourceStatusInd ::= SEQUENCE {
   commonPhysicalChannelID
                                       CommonPhysicalChannelID,
   resourceOperationalState
                                       ResourceOperationalState,
   availabilityStatus
                                       AvailabilityStatus,
   iE-Extensions
                                       ProtocolExtensionContainer { { CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
CDCA-ICH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
SCH-Information-ResourceStatusInd ::= ProtocolIE-Container {{ SCH-InformationIE-ResourceStatusInd }}
SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
```

```
SCH-InformationItem-ResourceStatusInd ::= SEQUENCE
    commonPhysicalChannelID
                                          CommonPhysicalChannelID,
   resourceOperationalState
                                             ResourceOperationalState,
   availabilityStatus
                                             AvailabilityStatus,
   iE-Extensions
                                             ProtocolExtensionContainer { { SCH-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
SCH-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      *****************
-- SYSTEM INFORMATION UPDATE REQUEST
__ **********************
SystemInformationUpdateRequest ::= SEQUENCE {
                                                 {{SystemInformationUpdateRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
                          ProtocolExtensionContainer {{SystemInformationUpdateRequest-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
           id-C-ID
     ID
                                                             CRITICALITY reject
                                                                                    TYPE
                                                                                           C-ID
                                                                                                                            PRESENCE mandatory
           id-BCCH-ModificationTime
     ID
                                                             CRITICALITY reject
                                                                                    TYPE
                                                                                           BCCH-ModificationTime
                                                                                                                            PRESENCE optional }
           id-MIB-SIB-InformationList-SystemInfoUpdateRqst
                                                             CRITICALITY reject
                                                                                    TYPE
                                                                                           MIB-SIB-InformationList-SystemInfoUpdateRqst
     ID
   PRESENCE
               mandatory },
    . . .
SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
MIB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SIB-InformationItem-SystemInfoUpdateRqst
MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
   iB-Type
                                      IB-Type,
   deletionIndicator
                                      DeletionIndicator-SystemInfoUpdate,
   iE-Extensions
                                      ProtocolExtensionContainer { { MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs} }
                                                                                                                            OPTIONAL,
    . . .
MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DeletionIndicator-SystemInfoUpdate ::= CHOICE {
   no-Deletion
                                  No-Deletion-SystemInfoUpdate,
   yes-Deletion
                                  NULL,
No-Deletion-SystemInfoUpdate ::= ProtocolIE-Container {{ No-DeletionIE-SystemInfoUpdate }}
No-DeletionIE-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
No-DeletionItem-SystemInfoUpdate ::= SEOUENCE {
   sIB-Originator
                                     SIB-Originator
                                                             OPTIONAL,
   -- This IE shall be present if the IB-Type is not equal to "MIB"
   iB-SG-REP
                                     IB-SG-REP
                                                             OPTIONAL,
   segmentInformationList
                                     SegmentInformationList-SystemInfoUpdate,
   iE-Extensions
                                     ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs} }
                                                                                                       OPTIONAL.
No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}
SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate
SegmentInformationItem-SystemInfoUpdate ::= SEOUENCE {
   iB-SG-POS
                                     IB-SG-POS
                                                      OPTIONAL,
   iB-SG-DATA
                                     IB-SG-DATA
                                                      OPTIONAL,
   -- This IE shall be present if the SIB Originator IE is set to "CRNC"
                                     ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ****************
```

```
-- SYSTEM INFORMATION UPDATE RESPONSE
__ *********************
SystemInformationUpdateResponse ::= SEOUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{SystemInformationUpdateResponse-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{SystemInformationUpdateResponse-Extensions}}
                                                                                           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
                                            {{SystemInformationUpdateFailure-IEs}},
   protocolIEs
                       ProtocolIE-Container
                       ProtocolExtensionContainer {{SystemInformationUpdateFailure-Extensions}}
   protocolExtensions
                                                                                           OPTIONAL,
SystemInformationUpdateFailure-IES NBAP-PROTOCOL-IES ::= {
          id-Cause
                                         CRITICALITY
                                                       ignore
                                                                                              PRESENCE mandatory }
                                                                    TYPE
                                                                           Cause
         id-CriticalityDiagnostics
   { ID
                                         CRITICALITY
                                                      ignore
                                                                    TYPE
                                                                           CriticalityDiagnostics
                                                                                                   PRESENCE optional },
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-CRNC-CommunicationContextID
                                                            CRITICALITY reject
                                                                                             TYPE CRNC-CommunicationContextID
                                                                                                                                             PRESENCE
    mandatory } |
                                                                                             TYPE UL-DPCH-Information-RL-SetupRqstFDD
    { ID
            id-UL-DPCH-Information-RL-SetupRqstFDD
                                                            CRITICALITY reject
                                                                                                                                             PRESENCE
    mandatory } |
            id-DL-DPCH-Information-RL-SetupRqstFDD
    { ID
                                                            CRITICALITY reject
                                                                                             TYPE DL-DPCH-Information-RL-SetupRqstFDD
                                                                                                                                             PRESENCE
    mandatory } |
    { ID
            id-DCH-InformationList-RL-SetupRqstFDD
                                                            CRITICALITY reject
                                                                                                  DCH-InformationList-RL-SetupRqstFDD
                                                                                                                                             PRESENCE
    mandatory }
    { ID
            id-DSCH-InformationList-RL-SetupRqstFDD
                                                            CRITICALITY reject
                                                                                             TYPE DSCH-InformationList-RL-SetupRqstFDD
                                                                                                                                             PRESENCE
    optional
    { ID
           id-RL-InformationList-RL-SetupRgstFDD
                                                            CRITICALITY notify
                                                                                             TYPE RL-InformationList-RL-SetupRgstFDD
                                                                                                                                             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 ::= {
    . . .
UL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    ul-ScramblingCode
                                            UL-ScramblingCode,
    minUL-ChannelisationCodeLength
                                            MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPDCHs
                                            MaxNrOfUL-DPDCHs
                                                                    OPTIONAL,
    -- This IE is present only if "Min UL Channelisation Code length" equals to 4 --
    ul-PunctureLimit
                                            PunctureLimit,
    t FCS
                                            TFCS,
    ul-DPCCH-SlotFormat
                                            UL-DPCCH-SlotFormat,
    ul-SIR-Target
                                            UL-SIR,
    diversityMode
                                            DiversityMode,
    d-FieldLength
                                            D-FieldLength
                                                                    OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
                                            SSDT-CellID-Length
    sSDT-CellID-Length
                                                                    OPTIONAL,
    s-FieldLength
                                            S-FieldLength
                                                                    OPTIONAL,
                                            ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    t.FCS
    dl-DPCH-SlotFormat
                                            DL-DPCH-SlotFormat,
```

dCH-ID

```
tFCI-SignallingMode
                                          TFCI-SignallingMode,
   tFCI-Presence
                                          TFCI-Presence OPTIONAL,
    -- this IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16 --
   multiplexingPosition
                                          MultiplexingPosition,
   pDSCH-RL-ID
                                                         OPTIONAL.
   -- This IE is present only if the DSCH Information group is present --
   pDSCH-CodeMapping
                                          PDSCH-CodeMapping
                                                                 OPTIONAL.
    -- This IE is present only if the DSCH Information group is present --
   powerOffsetInformation
                                          PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                          FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                          LimitedPowerIncrease,
                                          ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-SetupRgstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                          PowerOffset,
   pO2-ForTPC-Bits
                                          PowerOffset,
                                          PowerOffset,
   pO3-ForPilotBits
                                          ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD
DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
   payloadCRC-PresenceIndicator
                                      PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                      UL-FP-Mode,
   toAWS
                                      ToAWS,
                                      TOAWE,
   dCH-SpecificInformationList
                                      DCH-SpecificInformationList-RL-SetupRgstFDD,
   iE-Extensions
                                      DCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD
DCH-SpecificItem-RL-SetupRgstFDD ::=
                                      SEOUENCE {
```

DCH-ID,

```
ul-TransportFormatSet
                                        TransportFormatSet,
    dl-TransportFormatSet
                                        TransportFormatSet,
    frameHandlingPriority
                                        FrameHandlingPriority,
    qE-Selector
                                        OE-Selector,
    iE-Extensions
                                        ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs} }
DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstFDD
DSCH-InformationItem-RL-SetupRgstFDD ::= SEQUENCE {
    dSCH-ID
    dsch-Tfs
                                        DSCH-TFS,
    frameHandlingPriority
                                        FrameHandlingPriority,
    toAWS
                                        ToAWS,
    t.oAWE
                                        ToAWE,
    iE-Extensions
                                        ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} }
                                                                                                                            OPTIONAL,
    . . .
DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
    ProtocolIE-Container{{    RL-InformationItemIE-RL-SetupRqstFDD }}
RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
           id-RL-InformationItem-RL-SetupRqstFDD
                                                             CRITICALITY
                                                                             notify
                                                                                              TYPE RL-InformationItem-RL-SetupRqstFDD
                                                                                                                                           PRESENCE
    mandatory },
    . . .
RL-InformationItem-RL-SetupRgstFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    c-ID
                                        C-ID,
    firstRLS-indicator
                                        FirstRLS-Indicator,
    frameOffset.
                                        FrameOffset,
    chipOffset
                                        ChipOffset,
    propagationDelay
                                        PropagationDelay
                                                                     OPTIONAL,
    diversityControlField
                                        DiversityControlField
                                                                     OPTIONAL,
    -- This IE is present only if the RL is not the first one in the RL Information
    dl-CodeInformationList
                                        DL-CodeInformationList-RL-SetupRqstFDD,
    initialDL-transmissionPower
                                        DL-Power,
    maximumDL-power
                                        DL-Power,
    minimumDL-power
                                        DL-Power,
    sSDT-Cell-Identity
                                        SSDT-Cell-Identity
                                                                     OPTIONAL,
```

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transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                  OPTIONAL,
   -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
   iE-Extensions
                                    RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF DL-CodeInformationItem-RL-SetupRqstFDD
DL-CodeInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
   dl-ScramblingCode
                                        DL-ScramblingCode,
   fdd-DL-ChannelisationCodeNumber
                                        FDD-DL-ChannelisationCodeNumber,
                                                   TransmissionGapPatternSequenceCodeInformation
   transmissionGapPatternSequenceCodeInformation
   -- This IE is present only if Downlink compressed mode method is set to "SF/2'"in the Transmission Gap Pattern Sequence Information IE.
                                        ProtocolExtensionContainer { { DL-CodeInformationItem-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DL-CodeInformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK SETUP REQUEST TDD
__ *********************
RadioLinkSetupRequestTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{RadioLinkSetupRequestTDD-IEs}},
                         ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}}
   protocolExtensions
RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                          CRITICALITY reject
                                                                                    TYPE CRNC-CommunicationContextID
                                                                                                                                  PRESENCE
   mandatory } |
          id-UL-CCTrCH-InformationList-RL-SetupRgstTDD
                                                          CRITICALITY notify
                                                                                    TYPE UL-CCTrCH-InformationList-RL-SetupRgstTDD
                                                                                                                                  PRESENCE
   optional
   { ID
         id-UL-DPCH-InformationList-RL-SetupRqstTDD
                                                          CRITICALITY notify
                                                                                    TYPE UL-DPCH-InformationList-RL-SetupRqstTDD
              optional
   PRESENCE
   { ID
          id-DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                          CRITICALITY notify
                                                                                    TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                                                                                                  PRESENCE
   optional
   { ID
          id-DL-DPCH-InformationList-RL-SetupRgstTDD
                                                          CRITICALITY notify
                                                                                    TYPE DL-DPCH-InformationList-RL-SetupRqstTDD
              optional
         id-DCH-InformationList-RL-SetupRqstTDD
   { ID
                                                          CRITICALITY reject
                                                                                    TYPE DCH-InformationList-RL-SetupRqstTDD
                                                                                                                                  PRESENCE
   optional
             } |
```

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id-DSCH-InformationList-RL-SetupRqstTDD
    { ID
                                                             CRITICALITY reject
                                                                                        TYPE DSCH-InformationList-RL-SetupRqstTDD
                                                                                                                                         PRESENCE
    optional
                                                                                             USCH-InformationList-RL-SetupRqstTDD
    { ID
          id-USCH-InformationList-RL-SetupRqstTDD
                                                             CRITICALITY reject
                                                                                                                                         PRESENCE
    optional
    { ID
           id-RL-Information-RL-SetupRgstTDD
                                                             CRITICALITY reject
                                                                                        TYPE RL-Information-RL-SetupRqstTDD
                                                                                                                                         PRESENCE
    mandatory },
    . . .
RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationList-RL-SetupRgstTDD ::= SEOUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-Container { UL-CCTrCH-InformationItemIE-RL-SetupRgstTDD }}
UL-CCTrCH-InformationItemIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
           id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD
                                                             CRITICALITY
                                                                                            TYPE UL-CCTrCH-InformationItem-RL-SetupRgstTDD
                                                                             notify
    PRESENCE
               mandatory},
UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                          CCTrCH-ID,
    tFCS
                                          TFCS,
    tFCI-Coding
                                          TFCI-Coding.
    punctureLimit
                                          PunctureLimit,
    iE-Extensions
                                          ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                             OPTIONAL,
UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationItem-RL-SetupRqstTDD
UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID
                                          DPCH-ID,
                                          TDD-ChannelisationCode,
    tdd-ChannelisationCode
    burstType
                                          BurstType,
    midambleShift
                                          MidambleShift,
    timeSlot
                                          TimeSlot,
    tdd-PhysicalChannelOffset
                                          TDD-PhysicalChannelOffset,
    repetitionPeriod
                                          RepetitionPeriod,
    repetitionLength
                                          RepetitionLength,
    tFCI-Presence
                                          TFCI-Presence,
                                          iE-Extensions
```

```
UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationItemIE-RL-SetupRgstTDD}
}}
DL-CCTrCH-InformationItemIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
           id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                                     CRITICALITY
                                                                                     notify
                                                                                                   TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
    PRESENCE
               mandatory},
DL-CCTrCH-InformationItem-RL-SetupRgstTDD ::= SEOUENCE {
    cCTrCH-ID
                                            CCTrCH-ID,
    t FCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding,
    punctureLimit
                                            PunctureLimit,
    tdd-TPC-DownlinkStepSize
                                            TDD-TPC-DownlinkStepSize,
                                            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-SetupRqstTDD
DL-DPCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    burstType
                                            BurstType,
    midambleShift
                                            MidambleShift,
    timeSlot
                                            TimeSlot,
                                            TDD-PhysicalChannelOffset,
    tdd-PhysicalChannelOffset
    repetitionPeriod
                                            RepetitionPeriod,
                                            RepetitionLength,
    repetitionLength
    tFCI-Presence
                                            TFCI-Presence,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRgstTDD-ExtIEs} }
DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD
DCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
```

```
ul-FP-Mode
                                    UL-FP-Mode,
   t.oAWS
                                    ToAWS,
   t.oAWE
                                    TOAWE.
   dCH-SpecificInformationList
                                    DCH-SpecificInformationList-RL-SetupRgstTDD,
   iE-Extensions
                                        OPTIONAL.
DCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD
DCH-SpecificItem-RL-SetupRqstTDD ::=
                                    SEQUENCE {
   dCH-ID
                                        DCH-ID,
   ul-CCTrCH-ID
                                        CCTrCH-ID,
   dl-CCTrCH-ID
                                        CCTrCH-ID,
   ul-TransportFormatSet
                                        TransportFormatSet,
   dl-TransportFormatSet
                                        TransportFormatSet,
   frameHandlingPriority
                                        FrameHandlingPriority
                                                                     OPTIONAL.
   qE-Selector
                                        QE-Selector,
                                        ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs} } 
   iE-Extensions
                                                                                                               OPTIONAL,
   . . .
DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationList-RL-SetupRqstTDD ::= SEOUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD
DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
   dSCH-ID
                                        DSCH-ID,
   cCTrCH-ID
                                        CCTrCH-ID,
   transportFormatSet
                                        TransportFormatSet,
   frameHandlingPriority
                                        FrameHandlingPriority,
   toAWS
                                        ToAWS,
   toAWE
                                        TOAWE,
   iE-Extensions
                                        OPTIONAL,
DSCH-InformationItem-RL-SetupRqstTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDD
USCH-InformationItem-RL-SetupRqstTDD ::= SEOUENCE {
   uSCH-ID
                                        USCH-ID,
```

```
cCTrCH-ID
                                         CCTrCH-ID,
   transportFormatSet
                                         TransportFormatSet,
   gE-Selector
                                         OE-Selector.
   iE-Extensions
                                         ProtocolExtensionContainer { { USCH-InformationItemIE-RL-SetupRgstTDD-ExtIEs} }
                                                                                                                         OPTIONAL,
USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-SetupRgstTDD ::= SEQUENCE
   rL-ID
                                         RL-ID,
   c-ID
                                         C-ID,
   frameOffset
                                         FrameOffset,
   initialDL-transmissionPower
                                         DL-Power,
   maximumDL-power
                                         DL-Power,
   minimumDL-power
                                         DL-Power,
                                         ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs} }
   iE-Extensions
RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ****************
-- RADIO LINK SETUP RESPONSE FDD
__ **********************
RadioLinkSetupResponseFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{RadioLinkSetupResponseFDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                             CRITICALITY ignore
                                                                                            CRNC-CommunicationContextID
                                                                                                                                       PRESENCE
   mandatory } |
   { ID
           id-NodeB-CommunicationContextID
                                                             CRITICALITY ignore
                                                                                       TYPE NodeB-CommunicationContextID
                                                                                                                                     PRESENCE
   mandatory } |
           id-CommunicationControlPortID
    { ID
                                                             CRITICALITY ignore
                                                                                       TYPE CommunicationControlPortID
                                                                                                                                    PRESENCE
   mandatory } |
    { ID
           id-RL-InformationResponseList-RL-SetupRspFDD
                                                             CRITICALITY ignore
                                                                                       TYPE RL-InformationResponseList-RL-SetupRspFDD
                                                                                                                                       PRESENCE
   mandatory } |
    { ID
           id-CriticalityDiagnostics
                                                             CRITICALITY ignore
                                                                                       TYPE CriticalityDiagnostics
                                                                                                                                    PRESENCE
   optional },
    . . .
```

```
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container{{ RL-InformationResponseItemIE-RL-SetupRspFDD }}
RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
           id-RL-InformationResponseItem-RL-SetupRspFDD
                                                                 CRITICALITY
                                                                                ignore
                                                                                            TYPE RL-InformationResponseItem-RL-SetupRspFDD
    PRESENCE
               mandatory },
RL-InformationResponseItem-RL-SetupRspFDD ::= SEOUENCE {
   rL-ID
                                                  RL-ID.
   rL-Set-ID
                                                  RL-Set-ID,
   ul-InterferenceLevel
                                                  UL-InterferenceLevel,
   diversityIndication
                                  DiversityIndication-RL-SetupRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
   dSCH-InformationResponseList
                                                  DSCH-InformationResponseList-RL-SetupRspFDD OPTIONAL,
    sSDT-SupportIndicator
                                                  SSDT-SupportIndicator,
                                                  ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} }
   iE-Extensions
                                                                                                                                     OPTIONAL.
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
   combining
                                              Combining-RL-SetupRspFDD,
   nonCombiningOrFirstRL
                                              NonCombiningOrFirstRL-RL-SetupRspFDD,
Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}
CombiningIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory },
    . . .
CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
   rL-ID
   iE-Extensions
                                              ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs} } }
                                                                                                                 OPTIONAL,
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-SetupRspFDD }}
NonCombiningOrFirstRLIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
   . . .
NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE
   dCH-InformationResponseList
                                        DCH-InformationResponseList-RL-SetupRspFDD OPTIONAL ,
                                        ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} }
   iE-Extensions
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspFDD
DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
   dCH-ID
                                        DCH-ID,
   bindingID
                                        BindingID,
   transportLayerAddress
                                        TransportLayerAddress,
   iE-Extensions
                                        OPTIONAL.
   . . .
DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspFDD }}
DSCH-InformationResponseListIEs-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
DSCH-InformationResponseListIE-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-SetupRspFDD
DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
   dsch-id
                                        DSCH-ID,
   bindingID
                                        BindingID,
   transportLayerAddress
                                        TransportLaverAddress
   iE-Extensions
                                        OPTIONAL,
```

```
DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK SETUP RESPONSE TDD
    RadioLinkSetupResponseTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{RadioLinkSetupResponseTDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
   protocolExtensions
                                                                                               OPTIONAL,
RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                                           TYPE CRNC-CommunicationContextID
                                                            CRITICALITY
                                                                            ignore
    PRESENCE
               mandatory }|
          id-NodeB-CommunicationContextID
                                                                                           TYPE NodeB-CommunicationContextID
                                                                                                                                       PRESENCE
    { ID
                                                            CRITICALITY
                                                                            ignore
   mandatory } |
           id-CommunicationControlPortID
    { ID
                                                                                           TYPE
                                                                                                  CommunicationControlPortID
                                                            CRITICALITY
                                                                            ignore
               mandatory }|
    PRESENCE
          id-RL-InformationResponse-RL-SetupRspTDD
    { ID
                                                            CRITICALITY
                                                                            ignore
                                                                                           TYPE RL-InformationResponse-RL-SetupRspTDD
   PRESENCE
               mandatory }|
          id-CriticalityDiagnostics
                                                            CRITICALITY
                                                                            ignore
                                                                                           TYPE CriticalityDiagnostics
                                                                                                                                       PRESENCE
    { ID
   optional },
    . . .
RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
                                                 RL-ID.
   uL-InterferenceList-RL-SetupRspTDD
                                                 UL-InterferenceList-RL-SetupRspTDD,
                                                 DCH-InformationResponseList-RL-SetupRspTDD,
   dCH-InformationResponseList
   dSCH-InformationResponseList
                                                 DSCH-InformationResponseList-RL-SetupRspTDD
                                                                                               OPTIONAL,
    uSCH-InformationResponseList
                                                 USCH-InformationResponseList-RL-SetupRspTDD
                                                                                               OPTIONAL,
                                                 ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
RL-InformationResponseList-RL-SetupRspTDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-InterferenceItem-RL-SetupRspTDD
UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
```

```
timeSlot
                                 TimeSlot,
   ul-InterferenceLevel
                                 UL-InterferenceLevel.
   iE-Extensions
                                 OPTIONAL.
UL-InterferenceItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container{{ DCH-InformationResponseListIEs-RL-SetupRspTDD }}
DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
   { ID id-DCH-InformationResponseListIE-RL-SetupRspTDD
                                                      CRITICALITY
                                                                      ignore
                                                                                 TYPE
                                                                                        DCH-InformationResponseListIE-RL-SetupRspTDD PRESENCE
   mandatory \},
DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD
DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
   dCH-ID
                                            DCH-ID,
   bindingID
                                            BindingID,
   transportLaverAddress
                                            TransportLaverAddress,
   iE-Extensions
                                            ProtocolExtensionContainer { | DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs} }
                                                                                                                             OPTIONAL,
DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspTDD }}
DSCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-SetupRspTDD PRESENCE mandatory
},
    . . .
DSCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-SetupRspTDD
DSCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
   dsch-ID
                                            DSCH-ID,
   bindingID
                                            BindingID,
   transportLayerAddress
                                            TransportLayerAddress,
   iE-Extensions
                                            OPTIONAL,
DSCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
USCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{ USCH-InformationResponseListIEs-RL-SetupRspTDD }}
USCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponseListIE-RL-SetupRspTDD CRITICALITY ignore TYPE USCH-InformationResponseListIE-RL-SetupRspTDD PRESENCE mandatory
},
USCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-SetupRspTDD
USCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
   uSCH-ID
                                             USCH-ID,
   bindingID
                                             BindingID,
                                             TransportLayerAddress,
   transportLayerAddress
   iE-Extensions
                                             ProtocolExtensionContainer { { USCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs} }
                                                                                                                                OPTIONAL,
   . . .
USCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- RADIO LINK SETUP FAILURE FDD
  ******************
RadioLinkSetupFailureFDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                 {{RadioLinkSetupFailureFDD-IEs}},
                         ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL,
   protocolExtensions
RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                                                    TYPE CRNC-CommunicationContextID
                                                                       CRITICALITY
                                                                                      ignore
                  PRESENCE mandatory } |
    { ID
           id-NodeB-CommunicationContextID
                                                                       CRITICALITY
                                                                                      ignore
                                                                                                    TYPE NodeB-CommunicationContextID
               PRESENCE
                         mandatory }|
           id-CommunicationControlPortID
                                                                                                    TYPE CommunicationControlPortID
   { ID
                                                                       CRITICALITY
                                                                                      ignore
                         optional
               PRESENCE
          id-CauseLevel-RL-SetupFailureFDD
   { ID
                                                                       CRITICALITY
                                                                                      ignore
                                                                                                         CauseLevel-RL-SetupFailureFDD
   PRESENCE mandatory
          id-CriticalityDiagnostics
                                                                       CRITICALITY
                                                                                      ignore
                                                                                                    TYPE CriticalityDiagnostics
               PRESENCE optional },
```

```
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
                        GeneralCauseList-RL-SetupFailureFDD,
    generalCause
    rLSpecificCause
                        RLSpecificCauseList-RL-SetupFailureFDD,
GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}
GeneralCauseIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-SetupFailureFDD
                                                                            CRITICALITY ignore
        TYPE GeneralCauseItem-RL-SetupFailureFDD
                                                                             PRESENCE mandatory },
GeneralCauseItem-RL-SetupFailureFDD ::= SEOUENCE
    iE-Extensions
                                                ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} }
                                                                                                                                OPTIONAL,
    . . .
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}
RLSpecificCauseIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
           id-RLSpecificCauseItem-RL-SetupFailureFDD
                                                            CRITICALITY
    { ID
                                                                                             TYPE
                                                                                                              RLSpecificCauseItem-RL-SetupFailureFDD
                                                                             ignore
    PRESENCE
                mandatory },
    . . .
RLSpecificCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
                                                                Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD
                                                                Successful-RL-InformationRespList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
```

```
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD
                                                                            CRITICALITY
                                                                                                        TYPE Unsuccessful-RL-InformationRespItem-RL-
                                                                                            ignore
SetupFailureFDD
                    PRESENCE
                                mandatory },
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID.
    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-Container {{ Successful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
          id-Successful-RL-InformationRespItem-RL-SetupFailureFDD
                                                                            CRITICALITY
                                                                                                        TYPE Successful-RL-InformationRespItem-RL-
                                                                                            ignore
SetupFailureFDD
                    PRESENCE
                                mandatory},
    . . .
Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    rL-Set-ID
                                                RL-Set-ID,
    ul-InterferenceLevel
                                                UL-InterferenceLevel,
    diversityIndication
                                                DiversityIndication-RL-SetupFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    dSCH-InformationResponseList
                                                DSCH-InformationRespList-RL-SetupFailureFDD
                                                                                                OPTIONAL,
    sSDT-SupportIndicator
                                                SSDT-SupportIndicator,
    iE-Extensions
                                                ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
    OPTIONAL,
Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-SetupFailureFDD ::= CHOICE
    combining
                                                Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                            NonCombiningOrFirstRL-RL-SetupFailureFDD,
Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}
```

```
CombiningIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
CombiningItem-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 ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-SetupFailureFDD }}
NonCombiningOrFirstRLIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
},
   . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEQUENCE
   dCH-InformationResponseList
                                             DCH-InformationRespList-RL-SetupFailureFDD OPTIONAL,
                                             ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs} }
   iE-Extensions
                                                                                                                             OPTIONAL,
   . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfDCHs)) OF DCH-InformationRespItem-RL-SetupFailureFDD
DCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE
   dCH-ID
                                          DCH-ID,
   bindingID
                                          BindingID,
   transportLayerAddress
                                          TransportLayerAddress,
                                          ProtocolExtensionContainer { { DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
   iE-Extensions
                                                                                                                       OPTIONAL,
   . . .
DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DSCH-InformationRespListIEs-RL-SetupFailureFDD }}
DSCH-InformationRespListIEs-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-DSCH-InformationRespListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DSCH-InformationRespListIE-RL-SetupFailureFDD PRESENCE mandatory
DSCH-InformationRespListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationRespItem-RL-SetupFailureFDD
DSCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
   dsch-ID
                                             DSCH-ID,
   bindingID
                                             BindingID,
                                            TransportLayerAddress,
   transportLayerAddress
                                             ProtocolExtensionContainer { { DSCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
DSCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- RADIO LINK SETUP FAILURE TDD
__ *********************
RadioLinkSetupFailureTDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                {{RadioLinkSetupFailureTDD-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}
                                                                                              OPTIONAL,
RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                   CRITICALITY ignore
                                                                                          TYPE CRNC-CommunicationContextID
   PRESENCE mandatory } |
   { ID id-CauseLevel-RL-SetupFailureTDD
                                                                       CRITICALITY
                                                                                      ignore
                                                                                                    TYPE CauseLevel-RL-SetupFailureTDD
   PRESENCE mandatory }
   { ID
          id-CriticalityDiagnostics
                                                                   CRITICALITY ignore
                                                                                          TYPE CriticalityDiagnostics
              optional },
   PRESENCE
RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-SetupFailureTDD.
   rLSpecificCause
                      RLSpecificCauseList-RL-SetupFailureTDD,
```

```
GeneralCauseList-RL-SetupFailureTDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureTDD }}
GeneralCauseIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-SetupFailureTDD
                                                    CRITICALITY ignore TYPE GeneralCauseItem-RL-SetupFailureTDD PRESENCE mandatory },
    . . .
GeneralCauseItem-RL-SetupFailureTDD ::= SEQUENCE {
                                ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs} }
    iE-Extensions
                                                                                                                OPTIONAL.
GeneralCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureTDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureTDD }}
RLSpecificCauseIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-SetupFailureTDD
                                                        CRITICALITY ignore TYPE RLSpecificCauseItem-RL-SetupFailureTDD
                                                                                                                            PRESENCE mandatory
    . . .
RLSpecificCauseItem-RL-SetupFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
                                                            ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-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
                                                Cause,
    iE-Extensions
                                                ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs} }
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
*****************
-- RADIO LINK ADDITION REQUEST FDD
   *******************
RadioLinkAdditionRequestFDD ::= SEQUENCE {
                                                  {{RadioLinkAdditionRequestFDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
                          ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
    . . .
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                                         CRITICALITY reject
                                                                                    TYPE
                                                                                            NodeB-CommunicationContextID
                                                                                                                                  PRESENCE
   mandatory } |
   { ID
          id-RL-InformationList-RL-AdditionRgstFDD
                                                                                        TYPE RL-InformationList-RL-AdditionRgstFDD
                                                             CRITICALITY notify
                                                                                                                                        PRESENCE
   mandatory },
RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-AdditionRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-AdditionRgstFDD}}
RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
          id-RL-InformationItem-RL-AdditionRgstFDD
                                                                                            TYPE RL-InformationItem-RL-AdditionRqstFDD
                                                             CRITICALITY
                                                                            notify
    PRESENCE mandatory |
    { ID id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD
                                                                     CRITICALITY reject
                                                                                                TYPE Compressed-Mode-Deactivation-Flag-RL-
AdditionRqstFDD PRESENCE optional },
RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
   rL-ID
                                              RL-ID,
   c-ID
                                              C-ID,
   frameOffset
                                              FrameOffset,
    chipOffset
                                              ChipOffset,
   diversityControlField
                                              DiversityControlField,
                                             DL-CodeInformationList-RL-AdditionRqstFDD,
   dl-CodeInformationList
   initialDL-TransmissionPower
                                             DL-Power
                                                                            OPTIONAL,
   maximumDL-Power
                                              DL-Power
                                                                            OPTIONAL,
   minimumDL-Power
                                             DL-Power
                                                                            OPTIONAL,
   sSDT-CellIdentity
                                              SSDT-Cell-Identity
                                                                            OPTIONAL,
    transmitDiversityIndicator
                                             TransmitDiversityIndicator
                                                                            OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
   iE-Extensions
                                              ProtocolExtensionContainer { { RL-InformationItem-RL-AdditionRqstFDD-ExtIEs} }
                                                                                                                            OPTIONAL,
```

```
RL-InformationItem-RL-AdditionRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-AdditionRqstFDD
DL-CodeInformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
   dl-scramblingCode
                                         DL-ScramblingCode,
   fdd-DL-ChannelisationCodeNumber
                                         FDD-DL-ChannelisationCodeNumber,
   transmissionGapPatternSequenceCodeInformation
                                                    TransmissionGapPatternSequenceCodeInformation
                                         ProtocolExtensionContainer { { DL-CodeInformationItem-RL-AdditionRqstFDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
   . . .
DL-CodeInformationItem-RL-AdditionRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   -- RADIO LINK ADDITION REQUEST TDD
  *****************
RadioLinkAdditionRequestTDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{RadioLinkAdditionRequestTDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}}
                                                                                                 OPTIONAL,
RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                                               CRITICALITY
                                                                               reject
                                                                                            TYPE NodeB-CommunicationContextID
              mandatory } |
   PRESENCE
   { ID
          id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD
                                                               CRITICALITY
                                                                               reject
                                                                                            TYPE UL-CCTrCH-InformationList-RL-AdditionRqstTDD
   PRESENCE
              optional
   { ID
         id-UL-DPCH-InformationList-RL-AdditionRgstTDD
                                                               CRITICALITY
                                                                               notify
                                                                                            TYPE UL-DPCH-InformationList-RL-AdditionRgstTDD
   PRESENCE
              optional
    { ID
          id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                                CRITICALITY
                                                                               reject
                                                                                            TYPE DL-CCTrCH-InformationList-RL-AdditionRgstTDD
   PRESENCE
              optional
   { ID
          id-DL-DPCH-InformationList-RL-AdditionRqstTDD
                                                               CRITICALITY
                                                                               notify
                                                                                            TYPE DL-DPCH-InformationList-RL-AdditionRgstTDD
              optional
   PRESENCE
          id-RL-Information-RL-AdditionRqstTDD
                                                               CRITICALITY
                                                                               reject
                                                                                           TYPE RL-Information-RL-AdditionRqstTDD
              mandatory },
   PRESENCE
RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
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.
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRgstTDD-ExtIEs} }
    . . .
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationList-RL-AdditionRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfDPCHs)) OF ProtocolIE-Container {{ UL-DPCH-InformationItemIE-RL-
AdditionRgstTDD }}
UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
           id-UL-DPCH-InformationItem-RL-AdditionRgstTDD
                                                                     CRITICALITY
                                                                                     notify
                                                                                                  TYPE UL-DPCH-InformationItem-RL-AdditionRgstTDD
    PRESENCE
                mandatory},
UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    dPCH-ID
                                                DPCH-ID,
    tdd-ChannelisationCode
                                                TDD-ChannelisationCode,
    burstType
                                                BurstType,
    midambleShift
                                                MidambleShift,
    timeSlot
                                                TimeSlot,
    tdd-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset,
    repetitionPeriod
                                                RepetitionPeriod,
    repetitionLength
                                                RepetitionLength,
    tFCI-Presence
                                                TFCI-Presence,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRqstTDD
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRgstTDD-ExtIEs} }
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
```

```
DL-DPCH-InformationList-RL-AdditionRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfDPCHs)) OF ProtocolIE-Container {{ DL-DPCH-InformationItemIE-RL-
AdditionRgstTDD }}
DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
          id-DL-DPCH-InformationItem-RL-AdditionRgstTDD
                                                              CRITICALITY
                                                                             notify
                                                                                         TYPE DL-DPCH-InformationItem-RL-AdditionRgstTDD
   PRESENCE
              mandatory},
DL-DPCH-InformationItem-RL-AdditionRgstTDD ::= SEQUENCE {
   dPCH-ID
                                            DPCH-ID.
   tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
   burstType
                                            BurstType,
   midambleShift
                                            MidambleShift,
   timeSlot
                                            TimeSlot,
                                            TDD-PhysicalChannelOffset,
    tdd-PhysicalChannelOffset
   repetitionPeriod
                                            RepetitionPeriod,
   repetitionLength
                                            RepetitionLength,
   tFCI-Presence
                                            TFCI-Presence,
   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
                                            DL-Power
                                                              OPTIONAL,
   iE-Extensions
                                            OPTIONAL,
RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     *****************
-- RADIO LINK ADDITION RESPONSE FDD
__ **********************************
RadioLinkAdditionResponseFDD ::= SEQUENCE {
```

```
{{RadioLinkAdditionResponseFDD-IEs}},
    protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                      OPTIONAL,
RadioLinkAdditionResponseFDD-IES NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                 CRITICALITY
                                                                                ignore
                                                                                                TYPE CRNC-CommunicationContextID
    { ID
               mandatory } |
   PRESENCE
   { ID
          id-RL-InformationResponseList-RL-AdditionRspFDD
                                                                 CRITICALITY
                                                                                ignore
                                                                                                     RL-InformationResponseList-RL-AdditionRspFDD
    PRESENCE
               mandatory } |
          id-CriticalityDiagnostics
                                                                                                TYPE CriticalityDiagnostics
    { ID
                                                                 CRITICALITY
                                                                                ignore
    PRESENCE
               optional
                         },
RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationResponseItemIE-RL-
AdditionRspFDD }}
RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
          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,
   ul-InterferenceLevel
                                                 UL-InterferenceLevel,
   diversityIndication
                                                 DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                                  SSDT-SupportIndicator,
   iE-Extensions
                                                  OPTIONAL,
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
   combining
                                                  Combining-RL-AdditionRspFDD,
   non-combining
                                                 Non-Combining-RL-AdditionRspFDD,
Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspFDD }}
```

```
CombiningIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
   { ID id-CombiningItem-RL-AdditionRspFDD CRITICALITY ignore
                                                              TYPE CombiningItem-RL-AdditionRspFDD
                                                                                                     PRESENCE mandatory },
CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
   iE-Extensions
                                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} }
                                                                                                                     OPTIONAL,
CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Non-Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionRspFDD }}
Non-CombiningIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
   { ID id-Non-CombiningItem-RL-AdditionRspFDD CRITICALITY ignore
                                                                  TYPE Non-CombiningItem-RL-AdditionRspFDD
                                                                                                          PRESENCE mandatory },
Non-CombiningItem-RL-AdditionRspFDD ::= SEOUENCE {
   dCH-InformationResponseList
                                                DCH-InformationResponseList-RL-AdditionRspFDD,
   iE-Extensions
                                                ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs} }
                                                                                                                           OPTIONAL,
   . . .
Non-CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD
DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
   dCH-ID
                                            DCH-ID,
   bindingID
                                            BindingID,
   transportLayerAddress
                                            TransportLayerAddress,
   iE-Extensions
                                            OPTIONAL.
   . . .
DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- RADIO LINK ADDITION RESPONSE TDD
```

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

```
RadioLinkAdditionResponseTDD ::= SEOUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                  {{RadioLinkAdditionResponseTDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
                                                                                                   OPTIONAL.
RadioLinkAdditionResponseTDD-IES NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
    { ID
                                                             CRITICALITY ignore
                                                                                        TYPE CRNC-CommunicationContextID
                                                                                                                                         PRESENCE
   mandatory } |
   { ID
           id-RL-InformationResponse-RL-AdditionRspTDD
                                                             CRITICALITY ignore
                                                                                        TYPE RL-InformationResponse-RL-AdditionRspTDD
                                                                                                                                         PRESENCE
    mandatory } |
    { ID
           id-CriticalityDiagnostics
                                                             CRITICALITY ignore
                                                                                        TYPE CriticalityDiagnostics
                                                                                                                                      PRESENCE
   optional
RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
                                              RL-ID,
   uL-InterferenceList-RL-AdditionRspTDD
                                              UL-InterferenceList-RL-AdditionRspTDD,
   diversityIndication
                                              DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
   dSCH-InfomationResponseList
                                              DSCH-InformationResponseList-RL-AdditionRspTDD
                                                                                              OPTIONAL,
                                              USCH-InformationResponseList-RL-AdditionRspTDD
   uSCH-InfomationResponseList
                                                                                              OPTIONAL,
                                              ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-InterferenceItem-RL-AdditionRspTDD
UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
   timeSlot
                                  TimeSlot,
   ul-InterferenceLevel
                                  UL-InterferenceLevel,
                                  iE-Extensions
                                                                                                                  OPTIONAL,
    . . .
UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
   combining
                                          Combining-RL-AdditionRspTDD,
   non-Combining
                                          Non-Combining-RL-AdditionRspTDD,
Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspTDD }}
CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
   TYPE CombiningItem-RL-AdditionRspTDD
                                                                                                 PRESENCE mandatory },
CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
   iE-Extensions
                                          ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } }
                                                                                                              OPTIONAL,
   . . .
CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Non-Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionRspTDD }}
Non-CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
   TYPE Non-CombiningItem-RL-AdditionRspTDD
                                                                                                      PRESENCE mandatory },
Non-CombiningItem-RL-AdditionRspTDD ::= SEQUENCE
   dCH-InfomationResponseList
                                          DCH-InformationResponseList-RL-AdditionRspTDD
                                                                                       OPTIONAL,
   iE-Extensions
                                          OPTIONAL,
Non-CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD
DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
   dCH-ID
                                       DCH-ID,
   bindingID
                                       BindingID.
   transportLayerAddress
                                       TransportLayerAddress,
   iE-Extensions
                                       ProtocolExtensionContainer { | DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }
                                                                                                                         OPTIONAL,
DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}
DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
   PRESENCE
mandatory },
DSCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-AdditionRspTDD
DSCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
   dsch-ID
                                  DSCH-ID,
   bindingID
                                  BindingID,
                                  TransportLayerAddress,
   transportLayerAddress
                                  iE-Extensions
                                                                                                                  OPTIONAL,
   . . .
DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Container {{ USCH-InformationResponseListIEs-RL-AdditionRspTDD }}
USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
   { ID id-USCH-InformationResponseListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE USCH-InformationResponseListIE-RL-AdditionRspTDD
                                                                                                                          PRESENCE
mandatory },
   . . .
USCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-AdditionRspTDD
USCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
   uSCH-ID
                                  USCH-ID,
   bindingID
                                  BindingID,
   transportLayerAddress
                                  TransportLayerAddress,
   iE-Extensions
                                  ProtocolExtensionContainer { { USCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }
                                                                                                                  OPTIONAL,
   . . .
USCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
-- RADIO LINK ADDITION FAILURE FDD
```

```
__ ********************
RadioLinkAdditionFailureFDD ::= SEOUENCE {
    protocolIEs
                           ProtocolIE-Container
                                                   {{RadioLinkAdditionFailureFDD-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                      OPTIONAL.
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                   CRITICALITY
                                                                   ignore
                                                                               TYPE
                                                                                      CRNC-CommunicationContextID
                                                                                                                          PRESENCE mandatory
     TD
           id-CauseLevel-RL-AdditionFailureFDD
                                                                                      CauseLevel-RL-AdditionFailureFDD
                                                                                                                          PRESENCE mandatory
                                                   CRITICALITY
                                                                   ignore
                                                                              TYPE
    { ID
           id-CriticalityDiagnostics
                                                   CRITICALITY
                                                                   ignore
                                                                               TYPE
                                                                                      CriticalityDiagnostics
                                                                                                                          PRESENCE optional
    . . .
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause
                       GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause
                       RLSpecificCauseList-RL-AdditionFailureFDD,
GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}
GeneralCauseIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
                                                                               CRITICALITY ignore
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD
       TYPE GeneralCauseItem-RL-AdditionFailureFDD
                                                                               PRESENCE mandatory },
    . . .
GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    cause
    iE-Extensions
                                               ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}
RLSpecificCauseIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
          id-RLSpecificCauseItem-RL-AdditionFailureFDD
                                                                               CRITICALITY
                                                                                              ignore
       TYPE
               RLSpecificCauseItem-RL-AdditionFailureFDD
                                                                               PRESENCE
                                                                                          mandatory},
```

```
RLSpecificCauseItem-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)) OF ProtocolIE-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
           id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD
                                                                             CRITICALITY
                                                                                                      TYPE Unsuccessful-RL-InformationRespItem-RL-
                                                                                            ignore
AdditionFailureFDD PRESENCE
                              mandatory \},
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID
                                              RL-ID,
   cause
                                              Cause,
   iE-Extensions
                                              OPTIONAL,
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ Successful-RL-
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,
   ul-InterferenceLevel
                                              UL-InterferenceLevel,
   diversityIndication
                                              DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                              SSDT-SupportIndicator,
    iE-Extensions
                                              ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs} }
    OPTIONAL,
```

```
Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
   combining
                                 Combining-RL-AdditionFailureFDD,
   non-Combining
                                 Non-Combining-RL-AdditionFailureFDD,
Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}
CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionFailureFDD CRITICALITY ignore
                                                                   TYPE CombiningItem-RL-AdditionFailureFDD PRESENCE mandatory },
CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE
   rL-ID
                                             ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} }
   iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Non-Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionFailureFDD }}
Non-CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    PRESENCE mandatory },
    . . .
Non-CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
                                                 {\tt DCH-InformationResponseList-RL-AdditionFailureFDD}\,,
   dCH-InformationResponseList
   iE-Extensions
                                                 ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD
DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
   dCH-ID
                                             DCH-ID,
```

```
bindingID
                                             BindingID,
   transportLayerAddress
                                             TransportLayerAddress,
   iE-Extensions
                                             ProtocolExtensionContainer { { DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs} }
   OPTIONAL,
DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ****************
-- 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 }
                                                                    ignore
          id-CauseLevel-RL-AdditionFailureTDD
                                                                                       CauseLevel-RL-AdditionFailureTDD
   { ID
                                                     CRITICALITY
                                                                               TYPE
                                                                                                                                      PRESENCE
   mandatory } |
   { ID
          id-CriticalityDiagnostics
                                                    CRITICALITY
                                                                    ignore
                                                                               TYPE
                                                                                       CriticalityDiagnostics
                                                                                                                                      PRESENCE
   optional
   . . .
RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
                      GeneralCauseList-RL-AdditionFailureTDD,
   generalCause
   rLSpecificCause
                      RLSpecificCauseList-RL-AdditionFailureTDD,
   . . .
GeneralCauseList-RL-AdditionFailureTDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-AdditionFailureTDD }}
GeneralCauseIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
   { ID id-GeneralCauseItem-RL-AdditionFailureTDD
                                                    CRITICALITY ignore TYPE GeneralCauseItem-RL-AdditionFailureTDD
                                                                                                                     PRESENCE mandatory },
   . . .
GeneralCauseItem-RL-AdditionFailureTDD ::= SEQUENCE {
```

```
iE-Extensions
                               ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs} }
                                                                                                                 OPTIONAL,
GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureTDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureTDD }}
RLSpecificCauseIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
     ID id-RLSpecificCauseItem-RL-AdditionFailureTDD
                                                           CRITICALITY ignore TYPE RLSpecificCauseItem-RL-AdditionFailureTDD
                                                                                                                               PRESENCE mandatory
RLSpecificCauseItem-RL-AdditionFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD
                                                              Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
                                                              ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Container { {Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD}
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD
   PRESENCE mandatory },
    . . .
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD ::= SEQUENCE {
   rL-ID
                                           RL-ID,
   cause
                                           Cause,
   iE-Extensions
                                           ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs} }
                                                                                                                                           OPTIONAL,
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- RADIO LINK RECONFIGURATION PREPARE FDD
```

PRESENCE

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```
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__ *******************
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                  {{RadioLinkReconfigurationPrepareFDD-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
    { ID
                                                          CRITICALITY
                                                                         reject
                                                                                         TYPE NodeB-CommunicationContextID
   mandatory }
    { ID
           id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                         reject
                                                                                         TYPE UL-DPCH-Information-RL-ReconfPrepFDD
    optional
    { ID
           id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                         reject
                                                                                         TYPE DL-DPCH-Information-RL-ReconfPrepFDD
    optional
    { ID
           id-DCH-ModifyList-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                         reject
                                                                                         TYPE DCH-ModifyList-RL-ReconfPrepFDD
    optional
           id-DCH-AddList-RL-ReconfPrepFDD
                                                                                              DCH-AddList-RL-ReconfPrepFDD
    { ID
                                                          CRITICALITY
                                                                         reject
    optional
                                                                                         TYPE DCH-DeleteList-RL-ReconfPrepFDD
    { ID
           id-DCH-DeleteList-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                         reject
    optional
           id-DSCH-ModifyList-RL-ReconfPrepFDD
    { ID
                                                          CRITICALITY
                                                                         reject
                                                                                              DSCH-ModifyList-RL-ReconfPrepFDD
    optional
    { ID
          id-DSCH-AddList-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                         reject
                                                                                              DSCH-AddList-RL-ReconfPrepFDD
    optional
```

OPTIONAL.

RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

id-DSCH-DeleteList-RL-ReconfPrepFDD

id-RL-InformationList-RL-ReconfPrepFDD

{ ID id-Transmission-Gap-Pattern-Sequence-Information

{ ID

optional { ID

PRESENCE optional },

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE ul-ScramblingCode UL-ScramblingCode OPTIONAL, ul-SIR-Target UL-SIR OPTIONAL, minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL, maxNrOfUL-DPDCHs MaxNrOfUL-DPDCHs OPTIONAL, -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 ul-PunctureLimit PunctureLimit OPTIONAL, tFCS TFCS OPTIONAL, ul-DPCCH-SlotFormat UL-DPCCH-SlotFormat OPTIONAL, sSDT-CellIDLength SSDT-CellID-Length OPTIONAL, s-FieldLength S-FieldLength OPTIONAL, iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }

OPTIONAL,

reject

reject

reject

CRITICALITY

CRITICALITY

CRITICALITY

```
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
                                                  TFCS
                                                                                     OPTIONAL,
   dl-DPCH-SlotFormat
                                                  DL-DPCH-SlotFormat
                                                                                     OPTIONAL,
   tFCI-SignallingMode
                                                  TFCI-SignallingMode
                                                                                     OPTIONAL,
   tFCI-Presence
                                                  TFCI-Presence
                                                                                     OPTIONAL,
    -- This IE is only present if the DL DPCH Slot Format is equal to any of the value from 12 to 16
   multiplexingPosition
                                                  MultiplexingPosition
                                                                                     OPTIONAL,
   pDSCH-CodeMapping
                                                  PDSCH-CodeMapping
                                                                                     OPTIONAL,
   pDSCH-RL-ID
                                                  RL-ID
                                                                                     OPTIONAL,
   limitedPowerIncrease
                                                  LimitedPowerIncrease
                                                                                     OPTIONAL,
                                                  iE-Extensions
                                                                                                                                 OPTIONAL,
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepFDD
DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
   ul-FP-Mode
                                      UL-FP-Mode
                                                      OPTIONAL,
   toAWS
                                      ToAWS
                                                      OPTIONAL,
    t.oAWE
                                      TOAWE
                                                      OPTIONAL,
   dCH-SpecificInformationList
                                      DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
   iE-Extensions
                                      ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} } 
                                                                                                               OPTIONAL,
    . . .
DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfPrepFDD::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepFDD
DCH-ModifySpecificItem-RL-ReconfPrepFDD::= SEQUENCE {
   dCH-ID
                                                  DCH-ID,
   ul-TransportFormatSet
                                                  TransportFormatSet
                                                                             OPTIONAL,
   dl-TransportFormatSet
                                                  TransportFormatSet
                                                                             OPTIONAL,
   frameHandlingPriority
                                                  FrameHandlingPriority
                                                                             OPTIONAL,
   iE-Extensions
                                                  ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                                    OPTIONAL,
DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepFDD
DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE
   payloadCRC-PresenceIndicator
                                  PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                  UL-FP-Mode,
   toAWS
                                  ToAWS,
   toAWE
                                  TOAWE,
   dCH-SpecificInformationList
                                  DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
                                  iE-Extensions
DCH-AddItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-AddSpecificInformationList-RL-ReconfPrepFDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepFDD
DCH-AddSpecificItem-RL-ReconfPrepFDD::= SEQUENCE {
   dCH-ID
                                             DCH-ID,
   ul-TransportFormatSet
                                             TransportFormatSet,
   dl-TransportFormatSet
                                             TransportFormatSet,
   frameHandlingPriority
                                             FrameHandlingPriority,
   qE-Selector
                                             OE-Selector,
   iE-Extensions
                                             OPTIONAL,
DCH-AddSpecificItem-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,
   iE-Extensions
                                             DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-ModifyItemIE-RL-ReconfPrepFDD }}
DSCH-ModifyItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
   { ID id-DSCH-ModifyItem-RL-ReconfPrepFDD
                                                                        DSCH-ModifyItem-RL-ReconfPrepFDD PRESENCE mandatory},
                                            CRITICALITY reject
                                                                 TYPE
```

```
DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
                                             DSCH-ID.
   dl-TransportFormatSet
                                             TransportFormatSet
                                                                     OPTIONAL,
   frameHandlingPriority
                                             FrameHandlingPriority
                                                                     OPTIONAL,
   toAWS
                                             ToAWS
                                                                     OPTIONAL,
   TOAWE
                                             TOAWE
                                                                     OPTIONAL,
   iE-Extensions
                                             OPTIONAL,
DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-AddItemIE-RL-ReconfPrepFDD }}
DSCH-AddItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
         id-DSCH-AddItem-RL-ReconfPrepFDD
                                             CRITICALITY reject
                                                                 TYPE
                                                                        DSCH-AddItem-RL-ReconfPrepFDD PRESENCE mandatory },
   . . .
DSCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dscH-ID
                                             DSCH-ID,
   dl-TransportFormatSet
                                             TransportFormatSet,
   frameHandlingPriority
                                             FrameHandlingPriority,
   toAWS
                                             ToAWS,
   toAWE
                                             ToAWE,
                                             iE-Extensions
                                                                                                              OPTIONAL,
DSCH-AddItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-DeleteItemIE-RL-ReconfPrepFDD }}
DSCH-DeleteItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
         id-DSCH-DeleteItem-RL-ReconfPrepFDD
                                            CRITICALITY reject
                                                                 TYPE
                                                                        DSCH-DeleteItem-RL-ReconfPrepFDD PRESENCE mandatory },
   . . .
DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dsch-ID
                                             DSCH-ID,
   iE-Extensions
                                             OPTIONAL,
   . . .
```

```
DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-ReconfPrepFDD }}
RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
          id-RL-InformationItem-RL-ReconfPrepFDD
                                                          CRITICALITY
                                                                         reject
                                                                                         TYPE RL-InformationItem-RL-ReconfPrepFDD
                                                                                                                                    PRESENCE
   mandatory},
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
                                                  RL-ID,
   dl-CodeInformationList
                                                  DL-CodeInformationList-RL-ReconfPrepFDD
                                                                                             OPTIONAL,
   maxDI.-Power
                                                  DL-Power
                                                                                             OPTIONAL,
   minDL-Power
                                                  DL-Power
                                                                                             OPTIONAL,
                                                  SSDT-Indication
   sSDT-Indication
                                                                                             OPTIONAL,
    sSDT-Cell-Identity
                                                  SSDT-Cell-Identity
                                                                                             OPTIONAL,
    -- The IE may be present if the SSDT Indication is set to SSDT Active in the UE
   iE-Extensions
                                                  ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
    . . .
RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-ReconfPrepFDD ::= SEOUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-ReconfPrepFDD
DL-CodeInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dl-scramblingCode
                                                                                             OPTIONAL,
                                                      DL-ScramblingCode
    fdd-DL-ChannelisationCodeNumber
                                                      FDD-DL-ChannelisationCodeNumber
                                                                                             OPTIONAL.
    transmissionGapPatternSequenceCodeInformation
                                                      TransmissionGapPatternSequenceCodeInformation OPTIONAL,
    -- This IE is present only if Downlink compressed mode method is set to "SF/2'"in the Transmission Gap Pattern Sequence Information IE.
   iE-Extensions
                                                      ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs} }
DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
__ ***********************
-- RADIO LINK RECONFIGURATION PREPARE TDD
__ *********************
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
   protocolIEs
                           ProtocolIE-Container
                                                  {{RadioLinkReconfigurationPrepareTDD-IEs}},
```

```
ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}}
                                                                                                              OPTIONAL,
    protocolExtensions
RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
                                                                                                TYPE NodeB-CommunicationContextID
                                                                    CRITICALITY
                                                                                    reject
    PRESENCE
               mandatory } |
    { ID
           id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                                        CRITICALITY
                                                                                        reject
                                                                                                  TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
       PRESENCE
                   optional
           id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                                        CRITICALITY
                                                                                        reject
                                                                                                  TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
           PRESENCE
                        optional
           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
                   optional
           id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                                        CRITICALITY
                                                                                        reject
                                                                                                  TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
            PRESENCE
                        optional
           id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                                                                  TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    { ID
                                                                        CRITICALITY
                                                                                        reject
            PRESENCE
                        optional
           id-DCH-ModifyList-RL-ReconfPrepTDD
    { ID
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE DCH-ModifyList-RL-ReconfPrepTDD
    PRESENCE
                optional
                                } |
           id-DCH-AddList-RL-ReconfPrepTDD
    { ID
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE DCH-AddList-RL-ReconfPrepTDD
    PRESENCE
                optional
    { ID
           id-DCH-DeleteList-RL-ReconfPrepTDD
                                                                    CRITICALITY
                                                                                    reiect
                                                                                                TYPE DCH-DeleteList-RL-ReconfPrepTDD
    PRESENCE
                optional
           id-DSCH-Information-ModifyList-RL-ReconfPrepTDD
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
    { ID
    PRESENCE
                optional
    { ID
           id-DSCH-information-AddList-RL-ReconfPrepTDD
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE
                                                                                                       DSCH-Information-AddList-RL-ReconfPrepTDD
    PRESENCE
                optional
           id-DSCH-Information-DeleteList-RL-ReconfPrepTDD
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE
                optional
           id-USCH-Information-ModifyList-RL-ReconfPrepTDD
    { ID
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE
                optional
    { ID
           id-USCH-information-AddList-RL-ReconfPrepTDD
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE USCH-Information-AddList-RL-ReconfPrepTDD
    PRESENCE
                optional
    { ID
           id-USCH-Information-DeleteList-RL-ReconfPrepTDD
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE
                optional
                                } |
           id-RL-Information-RL-ReconfPrepTDD
    { ID
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE RL-Information-RL-ReconfPrepTDD
                optional
    PRESENCE
                                },
RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    tFCS
                                                TFCS,
```

```
tFCI-Coding
                                               TFCI-Coding,
    punctureLimit
                                               PunctureLimit.
    ul-DPCH-InformationList
                                               UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL.
    iE-Extensions
                                               ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                                        OPTIONAL.
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    TYPE UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD
                                                                                                                                        PRESENCE
mandatory },
    . . .
UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfPrepTDD
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                               DPCH-ID,
    tDD-ChannelisationCode
                                               TDD-ChannelisationCode,
    burstType
                                               BurstType,
    midambleShift
                                               MidambleShift,
    timeSlot
                                               TimeSlot,
    tdd-PhysicalChannelOffset
                                               TDD-PhysicalChannelOffset,
    repetitionPeriod
                                               RepetitionPeriod,
    repetitionLength
                                               RepetitionLength,
    tFCI-Presence
                                               TFCI-Presence,
                                               ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                               CCTrCH-ID,
    t FCS
                                               TFCS
                                                                                                     OPTIONAL,
    tFCI-Coding
                                               TFCI-Coding
                                                                                                     OPTIONAL,
    punctureLimit
                                               PunctureLimit
                                                                                                     OPTIONAL,
    ul-DPCH-InformationAddList
                                               UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                     OPTIONAL,
    ul-DPCH-InformationModifyList
                                               UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    ul-DPCH-InformationDeleteList
                                               UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL,
                                               ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
                                                                                                                                           OPTIONAL,
```

```
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    TYPE UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD
   PRESENCE mandatory },
    . . .
UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dPCH-ID
                                              DPCH-ID,
    tDD-ChannelisationCode
                                              TDD-ChannelisationCode,
   burstType
                                              BurstType,
   midambleShift
                                              MidambleShift,
    timeSlot
                                              TimeSlot,
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset,
   repetitionPeriod
                                              RepetitionPeriod,
   repetitionLength
                                              RepetitionLength,
    tFCI-Presence
                                              TFCI-Presence,
                                              ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ UL-DPCH-InformationModify-ModifyListIEs-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-ModifyListIE-RL-
                   PRESENCE mandatory },
ReconfPrepTDD
    . . .
UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEOUENCE {
   dPCH-ID
                                              DPCH-ID.
   tDD-ChannelisationCode
                                              TDD-ChannelisationCode
                                                                             OPTIONAL,
   burstType
                                              BurstType
                                                                             OPTIONAL,
   midambleShift
                                              MidambleShift
                                                                             OPTIONAL,
    timeSlot
                                              TimeSlot
                                                                             OPTIONAL,
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset
                                                                             OPTIONAL,
```

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repetitionPeriod
                                                RepetitionPeriod
                                                                                 OPTIONAL,
    repetitionLength
                                                RepetitionLength
                                                                                 OPTIONAL.
    t.FCI-Presence
                                                TFCI-Presence
                                                                                 OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-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-ReconfPrepTDD
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEOUENCE {
    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 ::= SEOUENCE (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,
```

```
dl-DPCH-InformationList
                                                  DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
   iE-Extensions
                                                  ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL.
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                 TYPE DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD
                                                                                                                                      PRESENCE
mandatory },
DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfPrepTDD
DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dPCH-ID
    tdd-ChannelisationCode
                                              TDD-ChannelisationCode,
   burstType
                                              BurstType,
   midambleShift
                                              MidambleShift,
    timeSlot
                                              TimeSlot.
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset,
    repetitionPeriod
                                              RepetitionPeriod,
    rpetitionLength
                                              RepetitionLength,
    tFCI-Presence
                                              TFCI-Presence,
                                              iE-Extensions
                                                                                                                                   OPTIONAL,
DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEOUENCE (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,
   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,
   iE-Extensions
                                                  ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
   OPTIONAL,
```

```
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    TYPE DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD
   PRESENCE mandatory },
    . . .
DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
   dPCH-ID
                                              DPCH-ID,
    tdd-ChannelisationCode
                                              TDD-ChannelisationCode,
   burstType
                                              BurstType,
   midambleShift
                                              MidambleShift,
    timeSlot
                                              TimeSlot,
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset,
   repetitionPeriod
                                              RepetitionPeriod,
   rpetitionLength
                                              RepetitionLength,
    tFCI-Presence
                                              TFCI-Presence,
                                              ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-ModifyListIEs-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-ModifyListIE-RL-
                   PRESENCE mandatory },
ReconfPrepTDD
    . . .
DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEOUENCE {
   dPCH-ID
                                              DPCH-ID.
    tdd-ChannelisationCode
                                              TDD-ChannelisationCode
                                                                             OPTIONAL,
   burstType
                                              BurstType
                                                                             OPTIONAL,
   midambleShift
                                              MidambleShift
                                                                             OPTIONAL,
    timeSlot
                                              TimeSlot
                                                                             OPTIONAL,
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset
                                                                             OPTIONAL,
```

```
repetitionPeriod
                                                RepetitionPeriod
                                                                                 OPTIONAL,
    rpetitionLength
                                                RepetitionLength
                                                                                 OPTIONAL.
    t.FCI-Presence
                                                TFCI-Presence
                                                                                 OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    . . .
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-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-
                    PRESENCE mandatory },
ReconfPrepTDD
DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                                ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteLitem-RL-ReconfPrepTDD
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD
DCH-ModifyItem-RL-ReconfPrepTDD ::= SEOUENCE {
    ul-FP-Mode
                                        UL-FP-Mode
                                                         OPTIONAL,
    toAWS
                                        ToAWS
                                                        OPTIONAL,
```

```
toAWE
                                     ToAWE
                                                    OPTIONAL,
   dCH-SpecificInformationList
                                     DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
   iE-Extensions
                                            OPTIONAL.
DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfPrepTDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD
DCH-ModifySpecificItem-RL-ReconfPrepTDD::= 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,
   frameHandlingPriority
                                            FrameHandlingPriority
                                                                      OPTIONAL,
                                            ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} }
   iE-Extensions
                                                                                                                           OPTIONAL,
   . . .
DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD
DCH-AddItem-RL-ReconfPrepTDD
                              ::= SEOUENCE
   payloadCRC-PresenceIndicator
                                     PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                     UL-FP-Mode,
   toAWS
                                     ToAWS,
   toAWE
                                     TOAWE,
   dCH-SpecificInformationList
                                     DCH-AddSpecificInformationList-RL-ReconfPrepTDD.
                                     iE-Extensions
                                                                                                           OPTIONAL.
DCH-AddItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::=
DCH-AddSpecificInformationList-RL-ReconfPrepTDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD
DCH-AddSpecificItem-RL-ReconfPrepTDD::= SEQUENCE
   dCH-ID
                                            DCH-ID,
   ul-CCTrCH-ID
                                            CCTrCH-ID,
   dl-CCTrCH-ID
                                            CCTrCH-ID,
   ul-TransportFormatSet
                                            TransportFormatSet,
   dl-TransportFormatS
                                            TransportFormatSet,
```

```
frameHandlingPriority
                                                FrameHandlingPriority,
    qE-Selector
                                                OE-Selector,
    iE-Extensions
                                                ProtocolExtensionContainer { | DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                                       OPTIONAL.
DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
                                                DCH-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } }
                                                                                                                              OPTIONAL,
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE
    dSCH-ID
                                                DSCH-ID,
    cCTrCH-ID
                                                CCTrCH-ID
                                                                         OPTIONAL,
    transportFormatSet
                                                TransportFormatSet
                                                                         OPTIONAL,
    frameHandlingPriority
                                                FrameHandlingPriority
                                                                         OPTIONAL,
    toAWS
                                                ToAWS
                                                                         OPTIONAL,
    toAWE
                                                ToAWE
                                                                         OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                                          OPTIONAL,
    . . .
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfPrepTDD
DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dsch-ID
                                                DSCH-ID,
    cCTrCH-ID
                                                CCTrCH-ID,
    transportFormatSet
                                                TransportFormatSet,
    frameHandlingPriority
                                                FrameHandlingPriority
                                                                             OPTIONAL.
    toAWS
                                                ToAWS,
    toAWE
    iE-Extensions
                                                ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }
```

```
DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD
DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dscH-TD
                                                ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD
USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
                                                USCH-ID.
    transportFormatSet
                                                TransportFormatSet
                                                                        OPTIONAL,
    cCTrCH-ID
                                                CCTrCH-ID
                                                                        OPTIONAL,
                                                ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL.
   iE-Extensions
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfPrepTDD
USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
   uSCH-ID
                                                USCH-ID.
    cCTrCH-ID
                                                CCTrCH-ID,
    transportFormatSet
                                                TransportFormatSet,
    qE-Selector
                                                OE-Selector,
    iE-Extensions
                                                ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }
                                                                                                                                     OPTIONAL,
    . . .
USCH-Information-Additem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD
USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
    iE-Extensions
                                                ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
```

```
USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {
   rL-ID
                                          RL-ID,
   maxDL-Power
                                          DL-Power
                                                           OPTIONAL,
   minDL-Power
                                          DL-Power
                                                           OPTIONAL,
                                          iE-Extensions
                                                                                                             OPTIONAL,
   . . .
RL-Information-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- RADIO LINK RECONFIGURATION READY
  *****************
RadioLinkReconfigurationReady ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                             {{RadioLinkReconfigurationReady-IEs}},
                        ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}}
   protocolExtensions
                                                                                          OPTIONAL,
RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
   { ID
                                                        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
                                                                                TYPE CriticalityDiagnostics
                                                        CRITICALITY
                                                                      ignore
                                                                                                                          PRESENCE
   optional
            },
   . . .
RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponseList-RL-ReconfReady
                                       ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationResponseItemIE-RL-
ReconfReady } }
RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
```

```
id-RL-InformationResponseItem-RL-ReconfReady
                                                           CRITICALITY
                                                                                    TYPE RL-InformationResponseItem-RL-ReconfReady
   { ID
                                                                        ignore
   PRESENCE
             mandatory},
RL-InformationResponseItem-RL-ReconfReady ::= SEOUENCE {
   rL-ID
                                             RL-ID.
   dCH-InformationResponseList-RL-ReconfReady
                                             DCH-InformationResponseList-RL-ReconfReady OPTIONAL,
   dSCH-InformationResponseList-RL-ReconfReady
                                             DSCH-InformationResponseList-RL-ReconfReady OPTIONAL,
   uSCH-InformationResponseList-RL-ReconfReady
                                             USCH-InformationResponseList-RL-ReconfReady OPTIONAL,
                                             ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs} }
   iE-Extensions
                                                                                                                        OPTIONAL,
   . . .
RL-InformationResponseItem-RL-ReconfReady-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-ReconfReady: = ProtocolIE-Container { DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
   DCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReady
DCH-InformationResponseItem-RL-ReconfReady ::= SEQUENCE
   dCH-ID
                                         DCH-ID,
   bindingID
                                         BindingID,
   transportLayerAddress
                                         TransportLayerAddress,
   iE-Extensions
                                         ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-ReconfReady-ExtIEs } }
                                                                                                                        OPTIONAL,
   . . .
DCH-InformationResponseItem-RL-ReconfReady-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
   DSCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-ReconfReady
DSCH-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
   dSCH-ID
                                         DSCH-ID,
   bindingID
                                         BindingID,
```

```
transportLayerAddress
                                        TransportLayerAddress,
   iE-Extensions
                                        ProtocolExtensionContainer { | DSCH-InformationResponseItem-RL-ReconfReady-ExtIEs } }
                                                                                                                    OPTIONAL,
DSCH-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-InformationResponseList-RL-ReconfReady: = ProtocolIE-Container {{ USCH-InformationResponseListIEs-RL-ReconfReady }}
USCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
},
USCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-ReconfReady
USCH-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
   uSCH-ID
                                        USCH-ID,
   bindingID
                                        BindingID,
   transportLayerAddress
                                        TransportLayerAddress,
   iE-Extensions
                                        OPTIONAL.
USCH-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- RADIO LINK RECONFIGURATION FAILURE
  ******************
RadioLinkReconfigurationFailure ::= SEQUENCE {
                                           {{RadioLinkReconfigurationFailure-IEs}},
   protocolIEs
                       ProtocolIE-Container
   protocolExtensions
                       ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}
                                                                                         OPTIONAL,
   . . .
RadioLinkReconfigurationFailure-IES NBAP-PROTOCOL-IES ::= {
         id-CRNC-CommunicationContextID
   { ID
                                                     CRITICALITY
                                                                   ignore
                                                                             TYPE CRNC-CommunicationContextID
             mandatory }
   PRESENCE
         id-CauseLevel-RL-ReconfFailure CRITICALITY
                                                            TYPE
                                                                   CauseLevel-RL-ReconfFailure
                                                                                              PRESENCE mandatory
         id-CriticalityDiagnostics
                                                     CRITICALITY
                                                                   ignore
                                                                             TYPE CriticalityDiagnostics
                                                                                                                       PRESENCE
   { ID
   optional },
   . . .
```

```
RadioLinkReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-ReconfFailure ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-ReconfFailure,
   rLSpecificCause
                      RLSpecificCauseList-RL-ReconfFailure,
GeneralCauseList-RL-ReconfFailure ::= ProtocolIE-Container {{ GeneralCauseIE-RL-ReconfFailure }}
GeneralCauseIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-ReconfFailure
                                                                         CRITICALITY ignore
       TYPE GeneralCauseItem-RL-ReconfFailure
                                                                         PRESENCE mandatory },
GeneralCauseItem-RL-ReconfFailure ::= SEOUENCE
   iE-Extensions
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs} }
                                                                                                                             OPTIONAL,
GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-ReconfFailure ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-ReconfFailure }}
RLSpecificCauseIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-ReconfFailure
                                                                         CRITICALITY
                                                                                        ignore
                                                                                                   TYPE RLSpecificCauseItem-RL-ReconfFailure
                   PRESENCE mandatory },
    . . .
RLSpecificCauseItem-RL-ReconfFailure ::= SEQUENCE {
   rL-ReconfigurationFailureList-RL-ReconfFailure
                                                      RL-ReconfigurationFailureList-RL-ReconfFailure
   iE-Extensions
                                                      OPTIONAL,
    . . .
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-ReconfigurationFailureList-RL-Reconffailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-ReconfigurationFailureItemIE-RL-
ReconfFailure } }
RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
```

```
id-RL-ReconfigurationFailureItem-RL-ReconfFailure
                                                               CRITICALITY
                                                                                     TYPE RL-ReconfigurationFailureItem-RL-ReconfFailure
                                                                             ignore
      PRESENCE
                 mandatory },
   . . .
RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEOUENCE {
   rL-ID
                                          RL-ID,
   cause
   iE-Extensions
                                          ProtocolExtensionContainer { { RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs} }
                                                                                                                             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
                                                                             NodeB-CommunicationContextID
                                                                                                          PRESENCE mandatory
                                             CRITICALITY
                                                            ignore
                                                                      TYPE
     ID
          id-CFN
                                              CRITICALITY
                                                            ignore
                                                                      TYPE
                                                                                                     PRESENCE mandatory
                                                                             Active-Pattern-Sequence-Information PRESENCE optional },
    ID
          id-Active-Pattern-Sequence-Information CRITICALITY
                                                            ignore
                                                                      TYPE
   . . .
RadioLinkReconfigurationCommit-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- RADIO LINK RECONFIGURATION CANCEL
  ******************
RadioLinkReconfigurationCancel ::= SEQUENCE
   protocolIEs
                        ProtocolIE-Container
                                              {{RadioLinkReconfigurationCancel-IEs}},
   protocolExtensions
                        ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}}
                                                                                             OPTIONAL,
```

```
RadioLinkReconfigurationCancel-IES NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
                                                  CRITICALITY
                                                                             TYPE
                                                                                    NodeB-CommunicationContextID
                                                                                                                       PRESENCE mandatory
                                                                 ignore
    . . .
RadioLinkReconfigurationCancel-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- RADIO LINK RECONFIGURATION REQUEST FDD
  RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
                                                  {{RadioLinkReconfigurationRequestFDD-IEs}},
    protocolIEs
                           ProtocolIE-Container
                           ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
    . . .
RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
                                                         CRITICALITY
                                                                         reject
                                                                                    TYPE
                                                                                            NodeB-CommunicationContextID
                                                                                                                                PRESENCE mandatory
     ID
           id-UL-DPCH-Information-RL-ReconfRqstFDD
                                                          CRITICALITY
                                                                         reject
                                                                                    TYPE
                                                                                            UL-DPCH-Information-RL-ReconfRqstFDD
                                                                                                                                      PRESENCE
    optional
    { ID
           id-DL-DPCH-Information-RL-ReconfRgstFDD
                                                          CRITICALITY
                                                                         reject
                                                                                     TYPE
                                                                                            DL-DPCH-Information-RL-ReconfRgstFDD
                                                                                                                                      PRESENCE
    optional
    { ID
           id-DCH-ModifyList-RL-ReconfRqstFDD
                                                          CRITICALITY
                                                                         reject
                                                                                     TYPE
                                                                                            DCH-ModifyList-RL-ReconfRqstFDD
                                                                                                                                   PRESENCE
    optional
    { ID
           id-DCH-AddList-RL-ReconfRqstFDD
                                                          CRITICALITY
                                                                         reject
                                                                                     TYPE
                                                                                            DCH-AddList-RL-ReconfRqstFDD
                                                                                                                                   PRESENCE
    optional
    { ID
           id-DCH-DeleteList-RL-ReconfRqstFDD
                                                                         reject
                                                                                            DCH-DeleteList-RL-ReconfRqstFDD
                                                                                                                                   PRESENCE
                                                          CRITICALITY
                                                                                    TYPE
    optional
    { ID
           id-DSCH-ModifyList-RL-ReconfRqstFDD
                                                          CRITICALITY
                                                                         reject
                                                                                     TYPE
                                                                                            DSCH-ModifyList-RL-ReconfRastFDD
                                                                                                                                         PRESENCE
    optional
    { ID
           id-DSCH-AddList-RL-ReconfRqstFDD
                                                          CRITICALITY
                                                                         reject
                                                                                    TYPE
                                                                                            DSCH-AddList-RL-ReconfRqstFDD
                                                                                                                                      PRESENCE
    optional
    { ID
           id-DSCH-DeleteList-RL-ReconfRqstFDD
                                                         CRITICALITY
                                                                         reject
                                                                                    TYPE
                                                                                            DSCH-DeleteList-RL-ReconfRqstFDD
                                                                                                                                         PRESENCE
    optional
    { ID
           id-RL-InformationList-RL-ReconfRqstFDD
                                                         CRITICALITY
                                                                         reject
                                                                                    TYPE
                                                                                            RL-InformationList-RL-ReconfRqstFDD
                                                                                                                                      PRESENCE
    optional
    { ID id-Transmission-Gap-Pattern-Sequence-Information
                                                                                            Transmission-Gap-Pattern-Sequence-Information PRESENCE
                                                         CRITICALITY
                                                                         reject
                                                                                    TYPE
optional },
    . . .
RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

. . .

```
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE
    ul-TFCS
                                                                     OPTIONAL.
    iE-Extensions
                                                     ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
                                                                                                                                        OPTIONAL,
    . . .
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-TFCS
                                                     TFCS
                                                                     OPTIONAL,
    tFCI-SignallingMode
                                                     TFCI-SignallingMode
                                                                                              OPTIONAL,
    pDSCH-CodeMapping
                                                     PDSCH-CodeMapping
                                                                                              OPTIONAL,
    pDSCH-RL-ID
                                                     RL-ID
                                                                                              OPTIONAL,
    limitedPowerIncrease
                                                     LimitedPowerIncrease
                                                                                              OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
                                                                                                                                        OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRgstFDD
DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-FP-Mode
                                        UL-FP-Mode
                                                         OPTIONAL,
    toAWS
                                        TOAWS
                                                         OPTIONAL,
                                        ToAWE
                                                         OPTIONAL,
    toAWE
    dCH-SpecificInformationList
                                        DCH-ModifySpecificInformationList-RL-ReconfRqstFDD,
                                                     ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs} } 
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstFDD
DCH-ModifySpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID
                                                     DCH-ID.
    ul-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    dl-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    frameHandlingPriority
                                                     FrameHandlingPriority
                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs} }
                                                                                                                                              OPTIONAL.
```

```
DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRgstFDD
DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
   payloadCRC-PresenceIndicator
                                      PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                      UL-FP-Mode,
   toAWS
                                      ToAWS,
   toAWE
                                      TOAWE,
   dCH-SpecificInformationList
                                      DCH-AddSpecificInformationList-RL-ReconfRqstFDD,
                                      ProtocolExtensionContainer { { DCH-Add-RL-ReconfRqstFDDItem-ExtIEs} }
   iE-Extensions
DCH-Add-RL-ReconfRqstFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
DCH-AddSpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstFDD
                                          SEQUENCE {
DCH-AddSpecificItem-RL-ReconfRqstFDD ::=
   dCH-ID
                                                  DCH-ID,
   ul-TransportFormatSet
                                                  TransportFormatSet,
   dl-TransportFormatSet
                                                  TransportFormatSet,
   frameHandlingPriority
                                                  FrameHandlingPriority,
   qE-Selector
                                                  OE-Selector,
                                                  iE-Extensions
DCH-AddSpecificItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD
DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
   dCH-ID
                                                  DCH-ID,
   iE-Extensions
                                                  ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } 
                                                                                                                             OPTIONAL,
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DSCH-ModifyList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-ModifyItemIE-RL-ReconfRqstFDD }}
DSCH-ModifyItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
          id-DSCH-ModifyItem-RL-ReconfRgstFDD
                                                    CRITICALITY reject
                                                                             TYPE
                                                                                     DSCH-ModifyItem-RL-ReconfRgstFDD PRESENCE mandatory },
    . . .
DSCH-ModifyItem-RL-ReconfRgstFDD ::= SEQUENCE {
    dsch-ID
                                                DSCH-ID.
    dl-TransportFormatSet
                                                TransportFormatSet
                                                                             OPTIONAL,
                                                FrameHandlingPriority
    frameHandlingPriority
                                                                             OPTIONAL,
    toAWS
                                                ToAWS
                                                                             OPTIONAL,
    toAWE
                                                ToAWE
                                                                             OPTIONAL,
   iE-Extensions
                                                ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs} } 
                                                                                                                              OPTIONAL,
DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-AddList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-AddItemIE-RL-ReconfRqstFDD }}
DSCH-AddItemIE-RL-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-DSCH-AddItem-RL-ReconfRqstFDD
                                                    CRITICALITY reject
                                                                             TYPE
                                                                                     DSCH-AddItem-RL-ReconfRgstFDD PRESENCE mandatory },
    . . .
DSCH-AddItem-RL-ReconfRgstFDD ::= SEQUENCE {
    dSCH-ID
                                                DSCH-ID,
    dl-TransportFormatSet
                                                TransportFormatSet,
                                                FrameHandlingPriority,
    frameHandlingPriority
                                                ToAWS,
    toAWS
                                                TOAWE,
    toAWE
    iE-Extensions
                                                ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfRgstFDD-ExtIEs} }
                                                                                                                          OPTIONAL,
DSCH-AddItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-DeleteItemIE-RL-ReconfRqstFDD }}
DSCH-DeleteItemIE-RL-ReconfRastFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-DSCH-DeleteItem-RL-ReconfRqstFDD
                                                    CRITICALITY reject
                                                                             TYPE
                                                                                     DSCH-DeleteItem-RL-ReconfRqstFDD PRESENCE mandatory },
    . . .
DSCH-DeleteItem-RL-ReconfRgstFDD ::= SEQUENCE {
    dSCH-ID
                                                DSCH-ID,
```

```
ProtocolExtensionContainer { { DSCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } 
    iE-Extensions
                                                                                                                          OPTIONAL,
DSCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}}
RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
          id-RL-InformationItem-RL-ReconfRqstFDD
                                                               CRITICALITY
                                                                               reject
                                                                                              TYPE RL-InformationItem-RL-ReconfRqstFDD
                                                                                                                                            PRESENCE
   mandatory},
    . . .
RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE
    rL-ID
                                               RL-ID,
    maxDL-Power
                                               DL-Power
                                                               OPTIONAL,
    minDL-Power
                                               DL-Power
                                                               OPTIONAL,
                                               DL-CodeInformationList-RL-ReconfRqstFDD
    dl-CodeInformationList
    -- This IE is group present only if Downlink compressed mode method is set to "SF/2'" in the Transmission Gap Pattern Sequence Information IE.
                                               ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs} } 
    iE-Extensions
DL-CodeInformationList-RL-ReconfRgstFDD ::= SEOUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-ReconfRgstFDD
DL-CodeInformationItem-RL-ReconfRgstFDD ::= SEQUENCE {
    dl-scramblingCode
                                                       DL-ScramblingCode
                                                                                              OPTIONAL,
    fdd-DL-ChannelisationCodeNumber
                                                       FDD-DL-ChannelisationCodeNumber
                                                                                              OPTIONAL,
                                                       TransmissionGapPatternSequenceCodeInformation OPTIONAL,
    transmissionGapPatternSequenceCodeInformation
    iE-Extensions
                                                       ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfRqstFDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
    . . .
DL-CodeInformationList-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ******************
```

```
-- RADIO LINK RECONFIGURATION REQUEST TDD
__ *********************
RadioLinkReconfigurationRequestTDD ::= SEOUENCE {
                          ProtocolIE-Container
                                                  {{RadioLinkReconfigurationRequestTDD-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}
                                                                                                         OPTIONAL.
RadioLinkReconfigurationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                                                 CRITICALITY
                                                                                 reiect
                                                                                              TYPE NodeB-CommunicationContextID
               mandatory } |
    PRESENCE
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                                     CRITICALITY
                                                                                    notify
                                                                                                TYPE UL-CCTrCH-InformationModifyList-RL-
                              optional
                                        } |
ReconfRastTDD
                   PRESENCE
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                                     CRITICALITY
                                                                                    notify
                                                                                                TYPE UL-CCTrCH-InformationDeleteList-RL-
                              optional
ReconfRastTDD
                  PRESENCE
                                         } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                                                                TYPE DL-CCTrCH-InformationModifyList-RL-
                                                                     CRITICALITY
                                                                                    notify
ReconfRastTDD
                   PRESENCE
                              optional
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                                                                TYPE DL-CCTrCH-InformationDeleteList-RL-
                                                                     CRITICALITY
                                                                                    notify
ReconfRqstTDD
                   PRESENCE
                              optional
    { ID id-DCH-ModifyList-RL-ReconfRqstTDD
                                                                 CRITICALITY
                                                                                              TYPE DCH-ModifyList-RL-ReconfRqstTDD
                                                                                 reject
    PRESENCE
               optional
       { ID
               id-DCH-AddList-RL-ReconfRgstTDD
                                                                     CRITICALITY
                                                                                    reject
                                                                                                TYPE DCH-AddList-RL-ReconfRgstTDD
    PRESENCE
               optional
                        } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD
                                                                                 reject
                                                                                              TYPE DCH-DeleteList-RL-ReconfRqstTDD
                                                                 CRITICALITY
    PRESENCE
               optional
    { ID
          id-DSCH-Information-ModifyList-RL-ReconfRqstTDD
                                                                 CRITICALITY
                                                                                reject
                                                                                              TYPE DSCH-Information-ModifyList-RL-ReconfRqstTDD
    PRESENCE
               optional
          id-DSCH-Information-AddList-RL-ReconfRqstTDD
                                                                 CRITICALITY
                                                                                reject
                                                                                              TYPE DSCH-Information-AddList-RL-ReconfRqstTDD
    PRESENCE
               optional
         id-DSCH-Information-DeleteList-RL-ReconfRqstTDD
    { ID
                                                                 CRITICALITY
                                                                                reject
                                                                                              TYPE DSCH-Information-DeleteList-RL-ReconfRqstTDD
    PRESENCE
               optional
          id-USCH-Information-ModifyList-RL-ReconfRqstTDD
                                                                 CRITICALITY
                                                                                reject
                                                                                              TYPE USCH-Information-ModifyList-RL-ReconfRqstTDD
    { ID
    PRESENCE
               optional
          id-USCH-Information-AddList-RL-ReconfRqstTDD
                                                                 CRITICALITY
                                                                                 reject
                                                                                              TYPE USCH-Information-AddList-RL-ReconfRqstTDD
    PRESENCE
               optional
         id-USCH-Information-DeleteList-RL-ReconfRqstTDD
    { ID
                                                                 CRITICALITY
                                                                                reject
                                                                                              TYPE USCH-Information-DeleteList-RL-ReconfRqstTDD
    PRESENCE
               optional
          id-RL-Information-RL-ReconfRqstTDD
                                                             CRITICALITY
                                                                             ignore
                                                                                            TYPE RL-Information-RL-ReconfRqstTDD
                                                                                                                                         PRESENCE
    optional },
    . . .
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ UL-CCTrCH-InformationModifyItemIE-
RL-ReconfRqstTDD } }
```

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

```
punctureLimit
                                                    PunctureLimit OPTIONAL,
   iE-Extensions
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} }
    OPTIONAL.
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationDeleteItemIE-
RL-ReconfRqstTDD } }
DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
           id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                                                                     TYPE DL-CCTrCH-InformationDeleteItem-RL-
                                                                        CRITICALITY
                                                                                         notify
ReconfRastTDD
                    PRESENCE
                                mandatory},
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID,
                                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
   OPTIONAL,
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfRqstTDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstTDD
DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    ul-FP-Mode
                                        UL-FP-Mode
                                                        OPTIONAL,
    toAWS
                                        ToAWS
                                                        OPTIONAL,
    toAWE
                                        TOAWE
                                                        OPTIONAL,
    dCH-SpecificInformationList
                                        DCH-ModifySpecificInformationList-RL-ReconfRqstTDD,
                                        ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRgstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
DCH-ModifyItem-RL-ReconfRqstTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstTDD
DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= 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.
   frameHandlingPriority
                                                FrameHandlingPriority
                                                                          OPTIONAL.
   iE-Extensions
                                                ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs} }
                                                                                                                                 OPTIONAL,
   . . .
DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstTDD
DCH-AddItem-RL-ReconfRgstTDD ::= SEOUENCE {
   payloadCRC-PresenceIndicator
                                     PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                     UL-FP-Mode,
   toAWS
                                     ToAWS,
                                     TOAWE
   toAWE
   dCH-SpecificInformationList
                                     DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
                                     iE-Extensions
                                                                                                           OPTIONAL,
   . . .
DCH-AddItem-RL-ReconfRastTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-AddSpecificInformationList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRgstTDD
DCH-AddSpecificItem-RL-ReconfRqstTDD ::=
                                         SEQUENCE {
   dCH-ID
                                                DCH-ID,
   ul-CCTrCH-ID
                                                CCTrCH-ID,
   dl-CCTrCH-ID
                                                CCTrCH-ID,
   ul-TransportFormatSet
                                                TransportFormatSet,
   dl-TransportFormatSet
                                                TransportFormatSet,
   frameHandlingPriority
                                                FrameHandlingPriority,
   σE-Selector
                                                QE-Selector,
                                                ProtocolExtensionContainer { | DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
DCH-AddSpecificItem-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.
                                                iE-Extensions
                                                                                                                         OPTIONAL,
```

```
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfRqstTDD
DSCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
   dsch-ID
                                                  DSCH-ID.
   cCTrCH-ID
                                                  CCTrCH-ID
                                                                             OPTIONAL,
    transportFormatSet
                                                  TransportFormatSet
                                                                             OPTIONAL,
                                                  FrameHandlingPriority
    frameHandlingPriority
                                                                             OPTIONAL,
   toAWS
                                                  ToAWS
                                                                             OPTIONAL,
                                                  TOAWE
   t.oAWE
                                                                             OPTIONAL,
   iE-Extensions
                                                  ProtocolExtensionContainer { | DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
    . . .
DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfRqstTDD
DSCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
   dsch-ID
                                                  DSCH-ID,
   cCTrCH-ID
                                                  CCTrCH-ID,
    transportFormatSet
                                                  TransportFormatSet,
    frameHandlingPriority
                                                  FrameHandlingPriority
                                                                             OPTIONAL,
    toAWS
                                                  ToAWS,
   toAWE
                                                  ToAWE,
   iE-Extensions
                                                  OPTIONAL,
DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfRqstTDD
DSCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   dscH-TD
   iE-Extensions
                                                  ProtocolExtensionContainer { | DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs} }
                                                                                                                                         OPTIONAL,
DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
USCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfRqstTDD
USCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE
   uSCH-ID
                                           USCH-ID.
   cCTrCH-ID
                                           CCTrCH-ID
                                                                     OPTIONAL,
   transportFormatSet
                                           TransportFormatSet
                                                                     OPTIONAL,
                                           ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfRgstTDD-ExtIEs} }
   iE-Extensions
USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
USCH-Information-AddList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfRgstTDD
USCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
   uSCH-ID
                                       USCH-ID,
   cCTrCH-ID
                                       CCTrCH-ID,
   transportFormatSet
                                       TransportFormatSet,
   qE-Selector
                                       QE-Selector,
                                       ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs} }
   iE-Extensions
                                                                                                                      OPTIONAL,
   . . .
USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfRqstTDD
USCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   uSCH-ID
   iE-Extensions
                                       OPTIONAL,
USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
   rI.-ID
                                           RL-ID,
   maxDL-Power
                                           DL-Power
                                                          OPTIONAL.
   minDL-Power
                                           DL-Power
                                                          OPTIONAL,
   timeslotISCPInfoList
                                           TimeslotISCPInfoList-RL-ReconfRqstTDD OPTIONAL,
   iE-Extensions
                                           OPTIONAL,
```

```
RL-InformationItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeslotISCPInfoList-RL-ReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfDLTSs)) OF TimeslotISCPInfoItem-RL-ReconfRgstTDD
TimeslotISCPInfoItem-RL-ReconfRgstTDD ::= SEQUENCE {
   timeSlot
                            TimeSlot,
   dL-TimeslotISCP
                            DL-TimeslotISCP.
                            iE-Extensions
                                                                                                       OPTIONAL.
TimeslotISCPInfoItem-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      -- RADIO LINK RECONFIGURATION RESPONSE
__ *********************
RadioLinkReconfigurationResponse ::= SEOUENCE {
   protocolIEs
                        ProtocolIE-Container
                                              {{RadioLinkReconfigurationResponse-IEs}},
   protocolExtensions
                        ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
                                                                                               OPTIONAL,
RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CRNC-CommunicationContextID
                                                      CRITICALITY ignore
                                                                           TYPE
                                                                                  CRNC-CommunicationContextID
                                                                                                                          PRESENCE
   mandatory }
          id-RL-InformationResponseList-RL-ReconfRsp
                                                     CRITICALITY ignore
                                                                           TYPE
                                                                                  RL-InformationResponseList-RL-ReconfRsp
                                                                                                                             PRESENCE
   { ID
   optional } |
    ID
          id-CriticalityDiagnostics
                                                      CRITICALITY ignore
                                                                           TYPE
                                                                                  CriticalityDiagnostics
                                                                                                                        PRESENCE optional
   },
   . . .
RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponseList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{RL-InformationResponseItemIE-RL-ReconfRsp}}
RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
          id-RL-InformationResponseItem-RL-ReconfRsp
                                                         CRITICALITY
                                                                        ignore
                                                                                      TYPE RL-InformationResponseItem-RL-ReconfRsp
   PRESENCE
              mandatory},
```

```
RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   rL-ID
                                     RL-ID,
   dCH-InformationResponseList-RL-ReconfRsp
                                        DCH-InformationResponseList-RL-ReconfRsp
                                                                            OPTIONAL,
   dSCH-InformationResponseList-RL-ReconfRsp
                                     DSCH-InformationResponseList-RL-ReconfRsp
                                                                       OPTIONAL,
   uSCH-InformationResponseList-RL-ReconfRsp
                                     USCH-InformationResponseList-RL-ReconfRsp
                                                                       OPTIONAL,
                                     iE-Extensions
                                                                                                        OPTIONAL,
RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Container {{ DCH-InformationResponseListIEs-RL-ReconfRsp }}
DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
   . . .
DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfRsp
DCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   dCH-ID
                                     DCH-ID.
   bindingID
                                     BindingID,
   transportLayerAddress
                                     TransportLayerAddress,
   iE-Extensions
                                     ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs } }
                                                                                                          OPTIONAL,
DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-ReconfRsp }}
DSCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
```

```
DSCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-ReconfRsp
DSCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   dSCH-ID
                                         DSCH-ID,
   bindingID
                                         BindingID,
   transportLayerAddress
                                         TransportLayerAddress,
                                         ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-ReconfRsp-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
DSCH-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
USCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Container {{ USCH-InformationResponseListIEs-RL-ReconfRsp }}
USCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
   . . .
USCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfUSCHs)) OF USCH-InformationResponseItem-RL-ReconfRsp
USCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   uSCH-ID
                                         USCH-ID,
   bindingID
                                         BindingID,
   transportLayerAddress
                                         TransportLayerAddress,
                                         ProtocolExtensionContainer { { USCH-InformationResponseItem-RL-ReconfRsp-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
USCH-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK DELETION REQUEST
__ *********************
```

```
RadioLinkDeletionRequest ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{RadioLinkDeletionRequest-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}} OPTIONAL,
RadioLinkDeletionRequest-IES NBAP-PROTOCOL-IES ::= {
         id-NodeB-CommunicationContextID
                                                  CRITICALITY
                                                                reject
                                                                             TYPE NodeB-CommunicationContextID
                                                                                                                   PRESENCE
   mandatory
         id-RL-informationList-RL-DeletionRgst
   { ID
                                                  CRITICALITY
                                                                notify
                                                                             TYPE RL-informationList-RL-DeletionRqst
                                                                                                                     PRESENCE
   mandatory
RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
RL-informationList-RL-DeletionRqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{RL-informationItemIE-RL-DeletionRqst}}
RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= {
        id-RL-informationItem-RL-DeletionRqst
                                                  CRITICALITY
                                                                notify
                                                                             TYPE RL-informationItem-RL-DeletionRqst
                                                                                                                        PRESENCE
   mandatory \,
RL-informationItem-RL-DeletionRqst ::= SEQUENCE {
   rL-ID
   iE-Extensions
                                        OPTIONAL,
*****************
-- RADIO LINK DELETION RESPONSE
  *******************
RadioLinkDeletionResponse ::= SEQUENCE {
                                            {{RadioLinkDeletionResponse-IEs}},
   protocolIEs
                       ProtocolIE-Container
                       ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
```

```
DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
   dl-ReferencePower
                                         DL-Power.
   iE-Extensions
                                         ProtocolExtensionContainer { { DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- DEDICATED MEASUREMENT INITIATION REQUEST
  ******************
DedicatedMeasurementInitiationRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{DedicatedMeasurementInitiationRequest-IEs}},
                          ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
DedicatedMeasurementInitiationRequest-IES NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
                                                                                          NodeB-CommunicationContextID
                                                                                                                             PRESENCE mandatory
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
     ID
           id-MeasurementID
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          MeasurementID
                                                                                                                           PRESENCE mandatory
     ID
           id-DedicatedMeasurementObjectType-DM-Rgst
                                                        CRITICALITY
                                                                        ignore
                                                                                   TYPE
                                                                                          DedicatedMeasurementObjectType-DM-Rgst
                                                                                                                                   PRESENCE
   mandatory }
     ID
           id-DedicatedMeasurementType
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          DedicatedMeasurementType
                                                                                                                              PRESENCE mandatory
           id-MeasurementFilterCoefficient
     ID
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          MeasurementFilterCoefficient
                                                                                                                                PRESENCE
    optional
    { ID
           id-ReportCharacteristics
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          ReportCharacteristics
                                                                                                                             PRESENCE mandatory
DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
   rL
                              RL-DM-Rast,
   rLS
                              RL-Set-DM-Rqst,
   all-RL
                              AllRL-DM-Rqst,
   all-RLS
                              AllRL-Set-DM-Rgst,
    . . .
```

```
RL-DM-Rgst ::= ProtocolIE-Container {{ RLIE-DM-Rgst }}
RLIE-DM-Rgst NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory },
RLItem-DM-Rqst ::= SEQUENCE {
  rL-InformationList
                           RL-InformationList-DM-Rqst,
  iE-Extensions
                           OPTIONAL,
RLItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-DM-Rqst }}
RL-InformationItemIE-DM-Rgst NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory },
  . . .
RL-InformationItem-DM-Rgst ::= SEQUENCE {
     rL-ID
                           RL-ID,
     dPCH-ID
                                         OPTIONAL,
                           iE-Extensions
                                                                             OPTIONAL,
RL-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rgst ::= ProtocolIE-Container {{ RL-SetIE-DM-Rgst }}
RL-SetIE-DM-Rgst NBAP-PROTOCOL-IES ::= {
  PRESENCE mandatory },
RL-SetItem-DM-Rqst ::= SEQUENCE {
  rL-Set-InformationList-DM-Rqst
                              RL-Set-InformationList-DM-Rqst,
  iE-Extensions
                              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-Rgst ::= SEOUENCE {
   rL-Set-ID
                              RL-Set-ID,
                              ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rgst-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllRL-DM-Rqst ::= ProtocolIE-Container {{ AllRLIE-DM-Rqst }}
AllRLIE-DM-Rgst NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
AllRLItem-DM-Rqst ::= NULL
AllRL-Set-DM-Rqst ::= ProtocolIE-Container {{ AllRLIE-Set-DM-Rqst }}
AllRLIE-Set-DM-Rgst NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
AllRLItem-Set-DM-Rgst ::= NULL
  *****************
-- DEDICATED MEASUREMENT INITIATION RESPONSE
__ ********************
DedicatedMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                           {{DedicatedMeasurementInitiationResponse-IEs}},
                       ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
   protocolExtensions
                                                                                              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
```

```
{ ID
          id-DedicatedMeasurementObjectType-DM-Rsp
                                                      CRITICALITY
                                                                               TYPE
                                                                                      DedicatedMeasurementObjectType-DM-Rsp PRESENCE
                                                                    ignore
   mandatory }
     ID
          id-CFN
                                                      CRITICALITY
                                                                    ignore
                                                                               TYPE
                                                                                                                     PRESENCE optional }
     ID
          id-CriticalityDiagnostics
                                                     CRITICALITY
                                                                    ignore
                                                                               TYPE
                                                                                      CriticalityDiagnostics
                                                                                                                       PRESENCE optional
   },
   . . .
DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
   rL
                            RL-DM-Rsp.
   rLS
                            RL-Set-DM-Rsp,
   all-RL
                            RL-DM-Rsp,
   all-RLS
                            RL-Set-DM-Rsp
RL-DM-Rsp ::= ProtocolIE-Container {{ RLIE-DM-Rsp }}
RLIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
   { ID id-RLItem-DM-Rsp CRITICALITY ignore TYPE RLItem-DM-Rsp
                                                                PRESENCE mandatory },
RLItem-DM-Rsp ::= SEOUENCE {
   rL-InformationList-DM-Rsp
                                   RL-InformationList-DM-Rsp,
                                   ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-DM-Rsp }}
RL-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
RL-InformationItem-DM-Rsp ::= SEOUENCE
   rL-ID
                                   RL-ID,
   dPCH-ID
                                   DPCH-ID
                                                  OPTIONAL,
   dedicatedMeasurementValue
                                   DedicatedMeasurementValue,
   iE-Extensions
                                   OPTIONAL,
```

```
RL-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rsp ::= ProtocolIE-Container {{    RL-SetIE-DM-Rsp }}
RL-SetIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
RL-SetItem-DM-Rsp ::= SEQUENCE {
   rL-Set-InformationList-DM-Rsp
                                   RL-Set-InformationList-DM-Rsp,
   iE-Extensions
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }
                                                                                             OPTIONAL,
RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-DM-Rsp }}
RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
   { ID id-RL-Set-InformationItem-DM-Rsp
                                           CRITICALITY ignore
                                                                TYPE RL-Set-InformationItem-DM-Rsp PRESENCE mandatory },
   . . .
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
   rL-Set-ID
                                RL-Set-ID,
   dedicatedMeasurementValue
                                DedicatedMeasurementValue,
   iE-Extensions
                                ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ****************
-- DEDICATED MEASUREMENT INITIATION FAILURE
  *****************
DedicatedMeasurementInitiationFailure ::= SEOUENCE
   protocolIEs
                        ProtocolIE-Container
                                               {{DedicatedMeasurementInitiationFailure-IEs}},
                        ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}}
   protocolExtensions
                                                                                                     OPTIONAL,
```

```
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID
           id-CRNC-CommunicationContextID
                                                 CRITICALITY
                                                                ignore
                                                                                TYPE
                                                                                       CRNC-CommunicationContextID
                                                                                                                      PRESENCE mandatory
     TD
           id-MeasurementID
                                                 CRITICALITY
                                                                ignore
                                                                                TYPE
                                                                                       Measurement.ID
                                                                                                                PRESENCE mandatory }
     ID
           id-Cause
                                                 CRITICALITY
                                                                ignore
                                                                                TYPE
                                                                                       Cause
                                                                                                             PRESENCE mandatory }
           id-CriticalityDiagnostics
                                                                                                                   PRESENCE optional },
     ID
                                                 CRITICALITY
                                                                ignore
                                                                                TYPE
                                                                                       CriticalityDiagnostics
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
                                                                                       TYPE CRNC-CommunicationContextID
                                                                                                                                    PRESENCE
                                                            CRITICALITY
                                                                            ignore
   mandatory } |
     ID
           id-MeasurementID
                                                            CRITICALITY
                                                                            ignore
                                                                                       TYPE MeasurementID
                                                                                                                              PRESENCE mandatory
    { ID
           id-DedicatedMeasurementObjectType-DM-Rprt
                                                            CRITICALITY
                                                                            ignore
                                                                                       TYPE DedicatedMeasurementObjectType-DM-Rprt
                                                                                                                                    PRESENCE
   mandatory }
    { ID
           id-CFN
                                                            CRITICALITY
                                                                            ignore
                                                                                       TYPE CFN
                                                                                                                               PRESENCE optional
    . . .
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
   rL
                                     RL-DM-Rprt,
   rLS
                                     RL-Set-DM-Rprt,
   all-RL
                                     RL-DM-Rort,
   all-RLS
                                     RL-Set-DM-Rprt,
    . . .
RL-DM-Rprt ::= ProtocolIE-Container {{ RLIE-DM-Rprt }}
RLIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-RLItem-DM-Rprt CRITICALITY ignore
                                          TYPE RLItem-DM-Rprt
                                                               PRESENCE mandatory },
RLItem-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 ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-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,
   measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
                              iE-Extensions
                                                                                           OPTIONAL,
   . . .
RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
RL-Set-DM-Rprt ::= ProtocolIE-Container {{    RL-SetIE-DM-Rprt }}
RL-SetIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
   TYPE RL-SetItem-DM-Rprt
                                                                      PRESENCE mandatory },
   . . .
RL-SetItem-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-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
   measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
                                  ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
MeasurementAvailabilityIndicator-DedicatedMeasurementReport::= CHOICE {
   measurementAvailable
                              MeasurementAvailable-DedicatedMeasurementReport,
                              MeasurementnotAvailable-DedicatedMeasurementReport,
   measurementnotAvailable
MeasurementAvailable-DedicatedMeasurementReport: = ProtocolIE-Container {{ MeasurementAvailableIE-DedicatedMeasurementReport }}
MeasurementAvailableIE-DedicatedMeasurementReport NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-DedicatedMeasurementReport PRESENCE
mandatory \},
MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE
    dedicatedmeasurementValue
                                  DedicatedMeasurementValue,
                                  ProtocolExtensionContainer { { MeasurementAvailableItem-DedicatedMeasurementReport-ExTIEs} }
   ie-Extensions
                                                                                                                                  OPTIONAL,
    . . .
MeasurementAvailableItem-DedicatedMeasurementReport-ExTIEs NBAP-PROTOCOL-EXTENSION ::= {
MeasurementnotAvailable-DedicatedMeasurementReport::= ProtocolIE-Container {{ MeasurementnotAvailableIE-DedicatedMeasurementReport }}
MeasurementnotAvailableIE-DedicatedMeasurementReport NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementnotAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-DedicatedMeasurementReport
   PRESENCE mandatory },
    . . .
MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL
```

```
__ *********************
-- DEDICATED MEASUREMENT TERMINATION REQUEST
  *****************
DedicatedMeasurementTerminationRequest ::= SEQUENCE
                                            {{DedicatedMeasurementTerminationRequest-IEs}},
   protocolIEs
                       ProtocolIE-Container
   protocolExtensions
                       ProtocolExtensionContainer {{DedicatedMeasurementTerminationRequest-Extensions}}
                                                                                                OPTIONAL,
DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                            CRITICALITY
                                                          ignore
                                                                        TYPE
                                                                              NodeB-CommunicationContextID
                                                                                                          PRESENCE mandatory }
   { ID
          id-MeasurementID
                                                                        TYPE
                                                                                                        PRESENCE mandatory },
                                            CRITICALITY
                                                          ignore
                                                                              MeasurementID
DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ****************
-- DEDICATED MEASUREMENT FAILURE INDICATION
__ **********************
DedicatedMeasurementFailureIndication ::= SEQUENCE {
                       ProtocolIE-Container
                                            {{DedicatedMeasurementFailureIndication-IEs}},
   protocolIEs
                       ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
DedicatedMeasurementFailureIndication-IES NBAP-PROTOCOL-IES ::= {
         id-CRNC-CommunicationContextID
                                         CRITICALITY
                                                                 TYPE
                                                                        CRNC-CommunicationContextID
                                                                                                   PRESENCE mandatory
                                                      ignore
    ID
         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 {
    protocolIEs
                           ProtocolIE-Container
                                                    {{RadioLinkFailureIndication-IEs}},
   protocolExtensions
                           ProtocolExtensionContainer {{RadioLinkFailureIndication-Extensions}}
                                                                                                     OPTIONAL.
RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                        CRITICALITY
                                                                        ignore
                                                                                        TYPE
                                                                                                CRNC-CommunicationContextID
                                                                                                                                      PRESENCE mandatory
           id-Reporting-Object-RL-FailureInd
     ID
                                                        CRITICALITY
                                                                        ignore
                                                                                        TYPE
                                                                                                Reporting-Object-RL-FailureInd
                                                                                                                                   PRESENCE mandatory
    . . .
RadioLinkFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
Reporting-Object-RL-FailureInd ::= CHOICE {
                           RL-RL-FailureInd,
   rL-Set
                           RL-Set-RL-FailureInd,
    . . .
RL-RL-FailureInd ::= ProtocolIE-Container {{ RLIE-RL-FailureInd }}
RLIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RLItem-RL-FailureInd CRITICALITY ignore TYPE RLItem-RL-FailureInd
                                                                                        PRESENCE mandatory },
RLItem-RL-FailureInd ::= SEQUENCE {
    rL-InformationList-RL-FailureInd
                                            RL-InformationList-RL-FailureInd,
                                            ProtocolExtensionContainer { { RLItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
    . . .
RLItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-FailureInd}}
RL-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-FailureInd
                                                                                                RL-InformationItem-RL-FailureInd
                                                        CRITICALITY
                                                                        ignore
                                                                                                                                         PRESENCE
   mandatory},
    . . .
RL-InformationItem-RL-FailureInd ::= SEQUENCE {
    rL-ID
                                                RL-ID,
```

```
iE-Extensions
                                     ProtocolExtensionContainer { { RL-InformationItem-RL-FailureInd-ExtIEs } }
                                                                                                 OPTIONAL,
RL-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-RL-FailureInd ::= ProtocolIE-Container {{ RL-SetIE-RL-FailureInd }}
RL-SetIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
RL-SetItem-RL-FailureInd ::= SEQUENCE {
   rL-Set-InformationList-RL-FailureInd
                                    RL-Set-InformationList-RL-FailureInd,
   iE-Extensions
                                 OPTIONAL,
RL-SetItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
RL-Set-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Container {{ RL-Set-InformationItemIE-RL-FailureInd }}
RL-Set-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
   { ID id-RL-Set-InformationItem-RL-FailureInd
                                      CRITICALITY ignore
                                                          TYPE RL-Set-InformationItem-RL-FailureInd
                                                                                             PRESENCE mandatory },
   . . .
RL-Set-InformationItem-RL-FailureInd ::= SEQUENCE {
   rL-Set-ID
                     RL-Set-ID,
   cause
   iE-Extensions
                     RL-Set-InformationItem-RL-FailureInd-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,
   rL-Set
                       RL-Set-RL-RestoreInd,
RL-RL-RestoreInd ::= ProtocolIE-Container {{ RLIE-RL-RestoreInd }}
RLIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
RLItem-RL-RestoreInd ::= SEQUENCE {
   rL-InformationList-RL-RestoreInd
                                     RL-InformationList-RL-RestoreInd,
   iE-Extensions
                                     RLItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{RL-InformationItemIE-RL-RestoreInd}}
RL-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
        id-RL-InformationItem-RL-RestoreInd
                                               CRITICALITY
                                                                          TYPE
                                                                                 RL-InformationItem-RL-RestoreInd
                                                                                                                   PRESENCE
                                                            ignore
   mandatory},
RL-InformationItem-RL-RestoreInd ::= SEQUENCE {
   rL-ID
   iE-Extensions
```

```
RL-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-RL-RestoreInd ::= ProtocolIE-Container {{ RL-SetIE-RL-RestoreInd }}
RL-SetIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
   . . .
RL-SetItem-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-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 ::= {
-- COMPRESSED MODE COMMAND FDD
__ *********************************
CompressedModeCommand ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{CompressedModeCommand-IEs}},
```

```
ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
          id-NodeB-CommunicationContextID
                                                                                    NodeB-CommunicationContextID
   { ID
                                               CRITICALITY
                                                                  ignore
                                                                             TYPE
                                                                                                                       PRESENCE
                                                                                                                                  mandatory
   { ID
          id-Active-Pattern-Sequence-Information CRITICALITY
                                                                  ignore
                                                                             TYPE
                                                                                    Active-Pattern-Sequence-Information
                                                                                                                       PRESENCE mandatory },
   . . .
CompressedModeCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
      -- ERROR INDICATION
__ **********************
ErrorIndication ::= SEOUENCE {
   protocolIEs
                         ProtocolIE-Container
                                               {{ErrorIndication-IEs}},
                         ProtocolExtensionContainer {{ErrorIndication-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
         id-CRNC-CommunicationContextID
                                           CRITICALITY
                                                          ignore
                                                                         TYPE
                                                                                CRNC-CommunicationContextID
                                                                                                               PRESENCE conditional } |
   -- This IE is only present when message is transmitted by a Node B on a signalling bearer corresponding to a communication control port --
   { ID id-NodeB-CommunicationContextID
                                                                                NodeB-CommunicationContextID
                                                                                                               PRESENCE conditional } |
                                            CRITICALITY
                                                          ignore
                                                                         TYPE
   -- This IE is only present when message is transmitted by a RNC on a signalling bearer corresponding to a communication control port --
          id-Cause
                                                                                                         PRESENCE conditional } |
                                            CRITICALITY
                                                          ignore
   -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
        id-CriticalityDiagnostics
                                            CRITICALITY
                                                          ignore
                                                                                CriticalityDiagnostics
                                                                                                               PRESENCE conditional },
   -- At least either or Cause IE or Criticality Diagnostic IE shall be present--
ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ····
-- PRIVATE MESSAGE
```

```
PrivateMessage ::= SEQUENCE {
   privateIEs
                  PrivateIE-Container {{PrivateMessage-IEs}},
PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
  ******************
-- 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
                                                                                                                               PRESENCE mandatory
                                                     CRITICALITY
                                                                    reject
                                                                                   TYPE
                                                                                           C-ID
     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-ReconfRqst
                                                                                   TYPE
                                                                                                                                 PRESENCE
                                                     CRITICALITY
                                                                    reject
                                                                                           PUSCHSets-AddList-PSCH-ReconfRqst
    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 ::= {
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,
```

```
ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
PDSCH-Information-AddListIEs-PSCH-ReconfRqst
                                              NBAP-PROTOCOL-IES ::=
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject
                                                                             TYPE
                                                                                     PDSCH-Information-AddListIE-PSCH-ReconfRqst
                                                                                                                                      PRESENCE
   mandatory},
    . . .
PDSCH-Information-AddListIE-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF PDSCH-Information-AddItem-PSCH-ReconfRqst
PDSCH-Information-AddItem-PSCH-ReconfRgst ::= SEQUENCE {
   pDSCH-ID
                                              PDSCH-ID,
   tdd-ChannelisationCode
                                              TDD-ChannelisationCode,
   burstType
                                              BurstType,
   midambleShift
                                              MidambleShift,
    timeSlot
                                              TimeSlot,
   repetitionPeriod
                                              RepetitionPeriod,
    tdd-PhysicalChannelOffset
                                              TDD-PhysicalChannelOffset
                                                                             OPTIONAL,
   repetitionLength
                                              RepetitionLength
                                                                             OPTIONAL,
    tFCI-Presence
                                              TFCI-Presence,
   iE-Extensions
                                              ProtocolExtensionContainer { { PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                OPTIONAL,
PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst
PDSCHSets-ModifyItem-PSCH-ReconfRqst
                                       ::= SEOUENCE {
   pDSCHSet-ID
                                              PDSCHSet-ID,
   pDSCH-InformationList
                                              PDSCH-Information-ModifyList-PSCH-ReconfRqst
                                                                                              OPTIONAL,
   iE-Extensions
                                              OPTIONAL,
PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}
```

```
PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
   TYPE
                                                                                     PDSCH-Information-ModifyListIE-PSCH-ReconfRqst
   PRESENCE
              mandatory }.
PDSCH-Information-ModifyListIE-PSCH-ReconfRqst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHs)) OF PDSCH-Information-ModifyItem-PSCH-ReconfRqst
PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE
   pDSCH-ID
                                            PDSCH-ID,
   tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
   burstType
                                            BurstType,
   midambleShift
                                            MidambleShift,
   timeSlot
                                            TimeSlot,
   repetitionPeriod
                                            RepetitionPeriod,
   tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset
                                                                          OPTIONAL,
   repetitionLength
                                            RepetitionLength
                                                                          OPTIONAL,
   tFCI-Presence
                                            TFCI-Presence,
   iE-Extensions
                                            ProtocolExtensionContainer { { PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                              OPTIONAL,
PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst
PDSCHSets-DeleteItem-PSCH-ReconfRqst
                                     ::= SEOUENCE {
   pDSCHSet-ID
                                            PDSCHSet-ID,
   iE-Extensions
                                            PDSCHSets-DeleteItem-PSCH-ReconfRast-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-Information-AddList-PSCH-ReconfRqst
   pUSCH-InformationList
                                                                                        OPTIONAL,
                                            ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                  OPTIONAL,
   . . .
PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}
PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
   {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject
                                                                          TYPE
                                                                                  PUSCH-Information-AddListIE-PSCH-ReconfRqst
                                                                                                                                  PRESENCE
   mandatory },
   . . .
PUSCH-Information-AddListIE-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-Information-AddItem-PSCH-ReconfRqst
PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
   pUSCH-ID
                                            PUSCH-ID,
                                            TDD-ChannelisationCode,
   tdd-ChannelisationCode
   burstType
                                            BurstType,
   midambleShift
                                            MidambleShift,
   timeSlot
                                            TimeSlot,
   repetitionPeriod
                                            RepetitionPeriod,
   tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset
                                                                          OPTIONAL,
   repetitionLength
                                            RepetitionLength
                                                                          OPTIONAL,
   tFCI-Presence
                                            TFCI-Presence,
   iE-Extensions
                                            ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                            OPTIONAL,
       . . .
PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst
PUSCHSets-ModifyItem-PSCH-ReconfRqst
                                      ::= SEOUENCE {
   pUSCHSet-ID
                                            PUSCHSet-ID,
   pUSCH-InformationList
                                            PDSCH-Information-ModifyList-PSCH-ReconfRqst
                                                                                           OPTIONAL,
                                            iE-Extensions
                                                                                                                       OPTIONAL,
   . . .
PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}
PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
   TYPE
                                                                                      PUSCH-Information-ModifyListIE-PSCH-ReconfRast
   PRESENCE
              mandatory},
   . . .
PUSCH-Information-ModifyListIE-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-Information-ModifyItem-PSCH-ReconfRgst
```

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```
PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
   pUSCH-ID
                                           PUSCH-ID,
   tdd-ChannelisationCode
                                           TDD-ChannelisationCode.
   burstType
                                           BurstType,
   midambleShift
                                           MidambleShift,
   timeSlot
                                           TimeSlot,
   repetitionPeriod
                                           RepetitionPeriod,
   tdd-PhysicalChannelOffset
                                           TDD-PhysicalChannelOffset
                                                                        OPTIONAL,
   repetitionLength
                                           RepetitionLength
                                                                        OPTIONAL,
   tFCI-Presence
                                           TFCI-Presence,
   iE-Extensions
                                           ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                          OPTIONAL,
       . . .
PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst
PUSCHSets-DeleteItem-PSCH-ReconfRqst
                                     ::= SEQUENCE {
   pUSCHSet-ID
                                           iE-Extensions
                                                                                                                  OPTIONAL,
   . . .
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    *****************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE TDD
  PhysicalSharedChannelReconfigurationResponseTDD ::= SEQUENCE {
                     ProtocolIE-Container {{PhysicalSharedChannelReconfigurationResponseTDD-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationResponseTDD-Extensions}}
                                                                                                                       OPTIONAL,
   . . .
PhysicalSharedChannelReconfigurationResponseTDD-IES NBAP-PROTOCOL-IES ::= {
          id-CriticalityDiagnostics
   { ID
                                       CRITICALITY
                                                                           CriticalityDiagnostics
                                                                                                  PRESENCE optional },
                                                      ignore
                                                                 TYPE
   . . .
PhysicalSharedChannelReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
******************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE TDD
  ******************
PhysicalSharedChannelReconfigurationFailureTDD ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container {{PhysicalSharedChannelReconfigurationFailureTDD-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationFailureTDD-Extensions}}
                                                                                                                             OPTIONAL,
PhysicalSharedChannelReconfigurationFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
           id-CauseLevel-PSCH-ReconfFailureTDD
                                                 CRITICALITY ignore TYPE CauseLevel-PSCH-ReconfFailureTDD PRESENCE mandatory }
     ID
           id-CriticalityDiagnostics
                                         CRITICALITY ignore
                                                                TYPE
                                                                        CriticalityDiagnostics PRESENCE optional },
    . . .
PhysicalSharedChannelReconfigurationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-PSCH-ReconfFailureTDD ::= CHOICE {
   generalCause
                          GeneralCauseList-PSCH-ReconfFailureTDD,
                          SetSpecificCauseList-PSCH-ReconfFailureTDD,
   setSpecificCause
GeneralCauseList-PSCH-ReconfFailureTDD ::= ProtocolIE-Container {{ GeneralCauseIE-PSCH-ReconfFailureTDD }}
GeneralCauseIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
   { ID id-GeneralCauseItem-PSCH-ReconfFailureTDD
                                                     CRITICALITY ignore TYPE GeneralCauseItem-PSCH-ReconfFailureTDD
                                                                                                                      PRESENCE mandatory },
   . . .
GeneralCauseItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
    cause
                              ProtocolExtensionContainer { { GeneralCauseItem-PSCH-ReconfFailureTDD-ExtIEs} }
   iE-Extensions
                                                                                                              OPTIONAL,
GeneralCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SetSpecificCauseList-PSCH-ReconfFailureTDD ::= ProtocolIE-Container {{ SetSpecificCauseIE-PSCH-ReconfFailureTDD }}
SetSpecificCauseIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
     ID id-SetSpecificCauseItem-PSCH-ReconfFailureTDD
                                                        CRITICALITY ignore TYPE SetSpecificCauseItem-PSCH-ReconfFailureTDD PRESENCE mandatory
```

```
SetSpecificCauseItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
    unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD
                                                                                                       OPTIONAL.
    unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD
                                                                                                       OPTIONAL,
   iE-Extensions
                                                    ProtocolExtensionContainer { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs} }
                                                                                                                                           OPTIONAL.
SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPDSCHSets)) OF ProtocolIE-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-Container {{ Unsuccessful-PUSCHSetItemIE-PSCH-
ReconfFailureTDD }}
Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
           id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDDPRESENCE
mandatory \},
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
   pUSCHSet-ID
                           PUSCHSet-ID,
    cause
                           Cause,
   iE-Extensions
                           ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} } OPTIONAL.
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
}
END
```

9.3.4 NBAP Information Elements

```
__***************************
-- Information Element Definitions
__*****************************
NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   maxNrOfTFCs,
   maxNrOfErrors,
   maxCTFC,
   maxNrOfTFs,
   maxTTI-count,
   maxRateMatching,
   maxCodeNrComp-1,
   maxNrOfCodeGroups,
   maxNrOfTFCIGroups,
   maxNrOfTFCI1Combs,
   maxNrOfTFCI2Combs,
   maxNrOfTFCI2Combs-1,
   maxNrOfSF,
   maxTGPS
FROM NBAP-Constants
   Criticality,
   ProcedureCode,
   ProtocolIE-ID,
   TransactionID,
   TriggeringMessage
FROM NBAP-CommonDataTypes
   ProtocolExtensionContainer{},
   NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
-- -----
Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15)
```

```
-- According to mapping in [4]
Acknowledged-RA-Tries-Value ::= INTEGER(0..240,...)
-- The number of L1 acknowledged random access tries per every 20 ms period.
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 {
        tGPSI
                        TGPSI,
        tGPRC
                        TGPRC,
        tGCFN
                        CFN,
        iE-Extensions
                            ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
APPreambleSignature ::= INTEGER (0..15)
APSubChannelNumber ::= INTEGER (0..11)
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
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed
BindingID ::= OCTET STRING (SIZE (1..4, ...))
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.
BlockSTTD-Indicator ::= ENUMERATED {
   active,
   inactive
BurstType ::= ENUMERATED {
   type1 (1),
   type2 (2),
-- ------
-- ------
```

```
Cause ::= CHOICE {
   radioNetwork
                            CauseRadioNetwork.
                        CauseTransport,
    t.ransport
   protocol
                            CauseProtocol,
   misc
                            CauseMisc.
CauseMisc ::= ENUMERATED {
    control-processing-overload,
   hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scramblingcode-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAlocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified.
    priority-transport-channel-established,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    no-closed-loop-timing-adjustment-mode-configured,
    invalid-CM-settings,
```

```
CauseTransport ::= ENUMERATED {
    transport-link-failure,
    transmission-port-not-available,
    transport-resource-unavailable,
    unspecified,
CCTrCH-ID ::= INTEGER (0..15)
CDSubChannelNumbers ::= BIT STRING (SIZE (12))
CellParameterID ::= INTEGER (0..127)
CFN ::= INTEGER (0..255)
Channel-Assignment-Indication ::= ENUMERATED {
    cA-Active,
    cA-Inactive
ChipOffset ::= INTEGER (0..38399)
-- Unit Chip
C-ID ::= INTEGER (0..65535)
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adi-2-slot,
CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
       dl-Cost
                    INTEGER (0..65535),
       ul-Cost
                    INTEGER (0..65535)
CommonMeasurementType ::= ENUMERATED {
    rssi,
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iscp,
    acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles,
CommonMeasurementValue ::= CHOICE {
```

```
transmitted-carrier-power
                                    Transmitted-Carrier-Power-Value,
    rssi
                                    RSSI-Value.
    acknowledged-ra-tries
                                    Acknowledged-RA-Tries-Value,
                                TimeSlot-ISCP-Value,
    time-slot-iscp
                                            Acknowledged-PCPCH-access-preambles,
    acknowledged-PCPCH-access-preambles
    detected-PCPCH-access-preambles
                                            Detected-PCPCH-access-preambles,
    . . .
CommonPhysicalChannelID ::= INTEGER (0..255)
CommonTransportChannelID ::= INTEGER (0..255)
CommunicationControlPortID ::= INTEGER (0..65535)
Compressed-Mode-Deactivation-Flag-RL-AdditionRgstFDD::= ENUMERATED {
    on,
    off
-- on=deactivate
ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"
ConstantValue ::= INTEGER (-10..10)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB
CPCH-Allowed-Total-Rate ::= ENUMERATED {
    v15,
    v30,
    v60,
    v120,
    v240,
    v480,
    v960,
    v1920,
    v2880,
    v3840,
    v4800,
    v5760,
CPCHScramblingCodeNumber ::= INTEGER (0..79)
CPCH-UL-DPCCH-SlotFormat ::= INTEGER (0..2)
CriticalityDiagnostics ::= SEQUENCE {
```

```
procedureCode
                              ProcedureCode
                                                         OPTIONAL,
    triggeringMessage
                              TriggeringMessage
                                                         OPTIONAL,
    criticalityResponse
                          Criticality
                                                 OPTIONAL.
    transactionID
                              TransactionID
                                                         OPTIONAL,
    iEsCriticalityResponses CriticalityDiagnostics-IE-List,
                              ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
    iE-Extensions
                                                                                             OPTIONAL,
    . . .
CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
       criticalityResponse Criticality,
       iE-ID
                          ProtocolIE-ID,
       repetitionNumber
                          RepetitionNumber
                                                 OPTIONAL,
                              ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} }
       iE-Extensions
                                                                                                     OPTIONAL,
CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CRNC-CommunicationContextID ::= INTEGER (0..1048575)
-- ------
-- -------
DCH-ID ::= INTEGER (0..255)
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
    SEOUENCE {
       dl-Cost
                   INTEGER (0..65535),
       ul-Cost
                   INTEGER (0..65535)
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
   round-trip-time,
   rx-timing-deviation,
DedicatedMeasurementValue ::= CHOICE {
```

```
sIR-Value
                                    SIR-Value,
    sIR-ErrorValue
                                    SIR-Error-Value,
                                        Transmitted-Code-Power-Value,
    transmittedCodePowerValue
    rSCP
                                        RSCP-Value,
    roundTripTime
                                        Round-Trip-Time-Value,
    rxTimingDeviationValue
                                        Rx-Timing-Deviation-Value,
Detected-PCPCH-access-preambles ::= INTEGER (0..240)
-- According to mapping in [4]
D-FieldLength ::= ENUMERATED {
    v1.
    v2,
DeltaSIR
                        ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).
DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not,
DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-model,
    closed-loop-mode2,
DL-DPCH-SlotFormat ::= INTEGER (0..16)
DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
DL-or-Global-CapacityCredit ::= INTEGER (0..65535)
DL-Power ::= INTEGER (-350..150)
-- DL-Power = power * 10
-- If Power <=-35 DL-Power shall be set to -350
-- if Power >=15 DL-Power shall be set to 150
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
```

```
DLPowerAveragingWindowSize ::= INTEGER (1..60)
DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --
DL-TimeslotISCP ::= INTEGER (0..91)
DL-TPC-Pattern01Count ::= INTEGER (0..30,...)
Downlink-Compressed-Mode-Method
                               ::= ENUMERATED {
   puncturing,
   sFdiv2.
   higher-layer-scheduling
DPCH-ID ::= INTEGER (0..239)
DSCH-ID ::= INTEGER (0..255)
-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TFS ::= INTEGER
-- -----
__ ______
__ ______
-- ------
FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 255)
-- The maximum value is equal to the DL spreading factor -1--
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-sizel,
   step-size1-5,
   step-size2,
FirstRLS-Indicator ::= ENUMERATED {
   first-RLS,
   not-first-RLS,
```

```
FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --
FrameOffset ::= INTEGER (0..255)
-- -----
-- -----
GapLength
                ::= INTEGER (1..14)
GapDuration
                ::= INTEGER (1..144)
-- ------
-- ------
IB-SG-DATA ::= BIT STRING
IB-SG-POS ::= INTEGER (0..2046)
-- Only even positions allowed
IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048}
IB-Type ::= ENUMERATED {
  mib,
   sib1,
   sib2,
   sIB3,
   sIB4,
   sIB5,
   sIB6,
   sIB7,
   sIB8,
   sIB9,
   sIB10,
   sIB11,
   sib12,
   sIB13,
   sIB13dot1,
   sIB13dot2,
   sIB13dot3,
   sIB13dot4,
```

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```
sIB14,
IndicationType ::= ENUMERATED {
  noFailure,
  serviceImpacting,
ITPPRM
       ::= ENUMERATED {
  mode-0,
  mode-1
-- -----
-- -----
-- -----
-- -----
Local-Cell-ID ::= INTEGER (0..268435455)
-- ------
MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
MaxNrOfUL-DPDCHs ::= INTEGER (1..6)
Max-Number-of-PCPCHes ::= INTEGER (1..64)
MaxPRACH-MidambleShifts ::= ENUMERATED {
  shift4,
  shift8,
MeasurementAvailabilityIndicator
                      ::= ENUMERATED {
```

```
measurementAvailable,
   measurementnotAvailable
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)
MidambleShift ::= INTEGER (0..15)
MinSpreadingFactor ::= ENUMERATED {
       v4,
       v16,
       v32,
       v64,
       v128,
       v256,
       v512,
       . . .
MinUL-ChannelisationCodeLength ::= ENUMERATED {
   v4,
   v8,
   v16,
   v32,
   v64,
   v128,
   v256,
   . . .
MultiplexingPosition ::= ENUMERATED {
   fixed.
   flexible,
-- -----
-- -----
NEOT ::= INTEGER (0..8)
NFmax ::= INTEGER (1..64)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
```

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```
NodeB-CommunicationContextID ::= INTEGER (0..1048575)
NStartMessage ::= INTEGER (1..8)
-- -----
__ ______
__ _____
PagingIndicatorLength ::= ENUMERATED {
   v2,
   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 +0.1dBm
PCP-Length ::= ENUMERATED{
   ν0,
   v8
PDSCH-CodeMapping ::= SEQUENCE {
   dl-ScramblingCode
                               DL-ScramblingCode,
   signallingMethod
                                  CHOICE {
      code-Range
                                  PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
      tFCI-Range
                                  PDSCH-CodeMapping-DSCH-MappingInformationList,
       explicit
                                      PDSCH-CodeMapping-PDSCH-CodeInformationList
   iE-Extensions
                                      ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs} }
                                                                                             OPTIONAL,
PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)
```

```
PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED {
   v4.
   v8,
   v16.
   v32,
   v64.
   v128,
   v256,
    . . .
PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
   SEOUENCE
       spreadingFactor
                                  PDSCH-CodeMapping-SpreadingFactor,
       multi-CodeInfo
                                  PDSCH-Multi-CodeInfo,
       start-CodeNumber
                                      PDSCH-CodeMapping-CodeNumberComp,
                                  PDSCH-CodeMapping-CodeNumberComp,
       stop-CodeNumber
       iE-Extensions
                                      OPTIONAL,
    . . .
PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
   SEQUENCE ·
       maxTFCI-field2-Value
                                      PDSCH-CodeMapping-MaxTFCI-Field2-Value,
                                  PDSCH-CodeMapping-SpreadingFactor,
       spreadingFactor
       multi-CodeInfo
                                  PDSCH-Multi-CodeInfo,
       codeNumber
                                  PDSCH-CodeMapping-CodeNumberComp,
       iE-Extensions
                                      ProtocolExtensionContainer { { PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs} }
    . . .
PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)
PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
   SEQUENCE {
                                  PDSCH-CodeMapping-SpreadingFactor,
       spreadingFactor
       multi-CodeInfo
                                  PDSCH-Multi-CodeInfo,
       codeNumber
                                  PDSCH-CodeMapping-CodeNumberComp
       iE-Extensions
                                      ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs} }
                                                                                                                            OPTIONAL,
```

```
PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-Multi-CodeInfo ::= INTEGER (1..16)
PDSCH-ID ::= INTEGER (0..255)
PDSCHSet-ID ::= INTEGER (0..255)
PICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72.
    v144,
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range OdB .. +6dB, Step +0.25dB
PowerRaiseLimit ::= INTEGER (0..10)
PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    . . .
PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 [9] --
PreambleThreshold ::= INTEGER (0..72)
-- 0= 0dB, 1= 0.5dB, ..., 72= 36dB
PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm
PrimaryScramblingCode ::= INTEGER (0..511)
PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = Ochip, 1 = 3chips
```

```
SCH-TimeSlot ::= INTEGER (0..6)
PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%
PUSCH-ID ::= INTEGER (0..255)
PUSCHSet-ID ::= INTEGER (0..255)
-- -----
-- ------
QE-Selector ::= ENUMERATED {
   selected,
   non-selected
-- -----
-- -----
RACH-SlotFormat ::= ENUMERATED {
   v1,
   v2,
   v3,
RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11
RepetitionLength ::= INTEGER (1..63)
RepetitionPeriod ::= ENUMERATED {
   v1,
   v2,
   v4,
   v8,
   v16,
   v32,
   v64,
RepetitionNumber ::= INTEGER (0..255)
RefTFCNumber ::= INTEGER (0..3)
ReportCharacteristics ::= CHOICE {
```

```
onDemand
    periodic
                            ReportCharacteristicsType-ReportPeriodicity,
                        ReportCharacteristicsType-EventA,
    event.-a
    event.-b
                        ReportCharacteristicsType-EventB,
                        ReportCharacteristicsType-EventC,
    event.-c
                        ReportCharacteristicsType-EventD,
    event-d
                        ReportCharacteristicsType-EventE,
    event.-e
                        ReportCharacteristicsType-EventF,
    event-f
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.
                                                                                                      OPTIONAL,
    measurementHysteresisTime
                                    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
    iE-Extensions
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-ExtIEs} }
                                                                                                                  OPTIONAL,
ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ReportCharacteristicsType-EventC ::= SEQUENCE {
    measurementIncreaseThreshold
                                    ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                    ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-ExtIEs} }
                                                                                                                  OPTIONAL,
ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventD ::= SEOUENCE {
    measurementDecreaseThreshold
                                    ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                    ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-ExtIEs} }
                                                                                                                  OPTIONAL,
```

```
ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventE ::= SEQUENCE {
    measurementThreshold1
                                     ReportCharacteristicsType-MeasurementThreshold,
    measurement.Threshold2
                                    ReportCharacteristicsType-MeasurementThreshold
                                                                                                  OPTIONAL.
    measurementHysteresisTime
                                    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                 OPTIONAL,
    reportPeriodicity
                                     ReportCharacteristicsType-ReportPeriodicity
                                                                                                  OPTIONAL.
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs}
    iE-Extensions
                                                                                                                  OPTIONAL,
        . . .
ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventF ::= SEQUENCE {
    measurementThreshold1
                                     ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2
                                     ReportCharacteristicsType-MeasurementThreshold
                                                                                                  OPTIONAL,
    measurementHysteresisTime
                                    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                 OPTIONAL,
                                    ReportCharacteristicsType-ReportPeriodicity
    reportPeriodicity
                                                                                                  OPTIONAL,
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs} }
    iE-Extensions
                                                                                                                  OPTIONAL,
        . . .
ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
                                    RSSI-Value-IncrDecrThres,
    transmitted-carrier-power
                                    Transmitted-Carrier-Power-Value,
    ackowledged-ra-tries
                                    Acknowledged-RA-Tries-Value,
    timesslot-iscp
                                TimeSlot-ISCP-Value-IncrDecrThres.
    sir
                                SIR-Value-IncrDecrThres,
    sir-error
                                SIR-Error-Value-IncrDecrThres,
                                    Transmitted-Code-Power-Value-IncrDecrThres,
    transmitted-code-power
                                    RSCP-Value-IncrDecrThres,
    rscp
    round-trip-time
                                    Round-Trip-Time-IncrDecrThres,
                                            Acknowledged-PCPCH-access-preambles,
    acknowledged-PCPCH-access-preambles
    detected-PCPCH-access-preambles
                                            Detected-PCPCH-access-preambles,
ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
                                    RSSI-Value,
    transmitted-carrier-power
                                    Transmitted-Carrier-Power-Value,
    ackowledged-ra-tries
                                    Acknowledged-RA-Tries-Value,
    timesslot-iscp
                                TimeSlot-ISCP-Value,
    sir
                                SIR-Value,
```

```
sir-error
                                SIR-Error-Value,
    transmitted-code-power
                                    Transmitted-Code-Power-Value.
    rscp
                                    RSCP-Value.
    round-trip-time
                                    Round-Trip-Time-Value,
    rx-timing-deviation
                                    Rx-Timing-Deviation-Value,
    acknowledged-PCPCH-access-preambles
                                            Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles
                                            Detected-PCPCH-access-preambles,
ReportCharacteristicsType-ScaledMeasurementChangeTime ::= INTEGER (1..600)
-- ReportCharacteristicsType-MeasurementChangeTime = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= INTEGER (1..600)
-- ReportCharacteristicsType-MeasurementHysteresisTime = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms
ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
                        ReportPeriodicity-Scaledmsec,
    msec
    min
                        ReportPeriodicity-Scaledmin
ReportPeriodicity-Scaledmsec ::= INTEGER (1..600)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms
ReportPeriodicity-Scaledmin ::= INTEGER (1..60)
-- Unit min, Range 1min .. 60min(hour), Step 1min
ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled,
LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
RL-ID ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
RPM
        ::= ENUMERATED {
    mode-0,
    mode-1
```

```
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)
Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215
RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [5]
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)
RSSI-Value ::= INTEGER(0..621)
-- According to mapping in [4]/[5]
RSSI-Value-IncrDecrThres ::= INTEGER (0..620)
Rx-Timing-Deviation-Value ::= INTEGER (0..2047)
-- -----
-- -----
AdjustmentPeriod
                       ::= INTEGER(1..300)
-- Unit Frame
ScaledAdjustmentRatio
                             ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
MaxAdjustmentStep
                         ::= INTEGER(1..10)
-- Unit Slot
ScramblingCodeNumber ::= INTEGER (0..15)
SecondaryCCPCH-SlotFormat ::= INTEGER(0..17)
S-FieldLength ::= ENUMERATED {
       v1,
       v2,
       . . .
SFN ::= INTEGER (0..4095)
ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec
SIB-Originator ::= ENUMERATED {
   cRNC,
```

```
SIR-Error-Value ::= INTEGER (0..125)
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
SIR-Value ::= INTEGER (0..63)
-- According to mapping in [4]/[5]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}
SSDT-CellID-Length ::= ENUMERATED {
   short,
   medium,
   long,
SSDT-Indication ::= ENUMERATED {
   ssdt-active-in-the-UE,
   ssdt-not-active-in-the-UE,
STTD-Indicator ::= ENUMERATED {
   active,
   inactive,
   . . .
SSDT-SupportIndicator ::= ENUMERATED {
   sSDT-Supported,
   sSDT-not-supported,
   . . .
SyncCase ::= INTEGER (1..2)
-- ------
T-Cell ::= ENUMERATED {
   ν0,
   v1.
   v2,
   v3,
   v4,
   ν5,
   v6,
   v7,
```

```
v8,
    ν9,
    . . .
T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range Os .. 25.5s, Step 0.1s
TDD-ChannelisationCode ::= ENUMERATED {
    chCodeldiv1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCodel6div4,
    chCode16div5,
    chCodel6div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11.
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
TDD-PhysicalChannelOffset ::= INTEGER (0..63)
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-sizel,
    step-size2,
    step-size3,
```

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```
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors
                                SEOUENCE {
       betaC
                                BetaCD,
       betaD
                                BetaCD,
            refTFCNumber
                                        RefTFCNumber
                                                         OPTIONAL
    computedGainFactors
                                    RefTFCNumber
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
TFCI-Presence ::= ENUMERATED {
    present,
    not-present,
    . . .
TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption
                                TFCI-SignallingMode-TFCI-SignallingOption,
    splitType
                            TFCI-SignallingMode-SplitType
                                                                         OPTIONAL,
    -- This IE is only present if TFCI signalling option is split --
                                TFCI-SignallingMode-LengthOfTFCI2
    lengthOfTFCI2
                                                                             OPTIONAL,
    -- This IE is only present if split type is logical --
                                ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)
TFCI-SignallingMode-SplitType ::= ENUMERATED {
   hard,
    logical,
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    split,
    . . .
```

```
TGD
                    ::= INTEGER (0|15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
                    ::= INTEGER (0..63)
TGPRC
-- 0 = infinity
TGPSI
                    ::= INTEGER (1.. maxTGPS)
TGSN
                    ::= INTEGER (0..14)
TimeSlot ::= INTEGER (0..14)
TimeSlotDirection ::= ENUMERATED {
   ul,
    dl,
    . . .
TimeSlot-ISCP-Value ::= INTEGER (0..81)
-- According to mapping in [5]
TimeSlot-ISCP-Value-IncrDecrThres ::= INTEGER (0..80)
TimeSlotStatus ::= ENUMERATED {
   active,
   not-active,
    . . .
ToAWE ::= INTEGER (0..2559)
-- Unit ms
ToAWS ::= INTEGER (0..1279)
-- Unit ms
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
        tGPSI
                        TGPSI,
        tGSN
                        TGSN,
        tGL1
                        GapLength,
        tGL2
                        GapLength OPTIONAL,
        tGD
                        TGD,
        tGPL1
                        GapDuration,
        tGPL2
                        GapDuration OPTIONAL,
```

```
rPM
                        RPM,
        iTPPRM
                        ITPPRM,
       uL-DL-mode
                        UL-DL-mode,
        downlink-Compressed-Mode-Method
                                            Downlink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
       uplink-Compressed-Mode-Method
                                            Uplink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
       dL-FrameType
                            DL-FrameType,
       delta-SIR1
                            DeltaSIR,
       delta-SIR-after1
                            DeltaSIR,
        delta-SIR2
                            DeltaSIR
                                        OPTIONAL,
        delta-SIR-after2
                           DeltaSIR
                                        OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
Transmission-Gap-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
  code-change,
  nocode-change
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [4]/[5]
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [4]/[5]
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive,
TFCS ::= SEQUENCE {
    tFCSvalues
                                CHOICE {
```

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```
no-Split-in-TFCI
                                   TFCS-TFCSList,
       split-in-TFCI
                                   SEQUENCE {
            transportFormatCombination-DCH
                                                TFCS-DCHList.
            signallingMethod
                                                CHOICE {
                tFCI-Range
                                                TFCS-MapingOnDSCHList,
                explicit
                                                   TFCS-DSCHList
                       ProtocolExtensionContainer { { TFCS-ExtIEs} }
    iE-Extensions
                                                                           OPTIONAL,
TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEOUENCE {
       CTFC
                           TFCS-CTFC,
       tFC-Beta
                       TransportFormatCombination-Beta
                                                           OPTIONAL,
                           ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
       iE-Extensions
                                                                                        OPTIONAL,
TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TFCS-CTFC ::= INTEGER (0..maxCTFC)
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
    SEOUENCE {
       cTFC
                           TFCS-CTFC,
                           ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs} }
       iE-Extensions
                                                                                        OPTIONAL,
    . . .
TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
    SEQUENCE {
       maxTFCI-field2-Value
                                   TFCS-MaxTFCI-field2-Value,
       cTFC-DSCH
                               TFCS-CTFC,
       iE-Extensions
                                   ProtocolExtensionContainer { { TFCS-MapingOnDSCHList-ExtIEs} }
TFCS-MapingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1)
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
    SEOUENCE {
       cTFC-DSCH
                               TFCS-CTFC,
       iE-Extensions
                                    ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs} }
                                                                                                OPTIONAL,
    . . .
TFCS-DSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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 is only present if "Number of Transport Blocks" is greater than 0
       mode
                                    TransportFormatSet-ModeDP,
                                    ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs} }
       iE-Extensions
TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
    SEQUENCE {
       transmissionTimeInterval
                                        TransportFormatSet-TransmissionTimeInterval,
                                        ProtocolExtensionContainer { { TransmissionTimeIntervalList-ExtIEs} }
    iE-Extensions
TransmissionTimeIntervalList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
                                        TransportFormatSet-TransmissionTimeInterval
    transmissionTimeInterval
    -- This IE is mandatory if not defined sa dynamic parameter. Otherwise it is absent
    channelCoding
                                    TransportFormatSet-ChannelCodingType,
    codingRate
                                    TransportFormatSet-CodingRate
                                                                                  OPTIONAL,
    -- This IE is only present if channelCoding is 'convolutional' or 'turbo'
    rateMatcingAttribute
                                    TransportFormatSet-RateMatchingAttribute,
    cRC-Size
                                    TransportFormatSet-CRC-Size,
    mode
                                     TransportFormatSet-ModeSSP
                                     ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs} }
    iE-Extensions
                                                                                                                      OPTIONAL,
    . . .
TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    . . .
TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    . . .
TransportFormatSet-ModeDP ::= CHOICE {
                        TransmissionTimeIntervalList,
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent
    notApplicable
                                NULL,
    . . .
TransportFormatSet-ModeSSP ::= CHOICE {
                    TransportFormatSet-SecondInterleavingMode,
    notApplicable
                                NULL,
```

```
TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..4095)
TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)
TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
   frame-rlated,
   timeSlot-related,
   . . .
TransportFormatSet-TransmissionTimeInterval ::= ENUMERATED {
   msec-10,
   msec-20,
   msec-40,
   msec-80,
TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)
TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))
TSTD-Indicator ::= ENUMERATED {
   active,
   inactive,
-- -----
UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 1885.2MHz .. 2024.8MHz
UL-CapacityCredit ::= INTEGER (0..65535)
UL-DL-mode ::= ENUMERATED {
   ul-only,
   dl-only,
   both-ul-and-dl
Uplink-Compressed-Mode-Method ::= ENUMERATED {
   sFdiv2,
   higher-layer-scheduling
```

```
UL-DPCCH-SlotFormat ::= INTEGER (0..5)
UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]
UL-FP-Mode ::= ENUMERATED {
  normal,
   silent,
UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- UL-InterferenceLevel = InterferenceLevel * 10
-- Unit dBm, Range -128dBm .. -60dBm, Step 0.1dBm
UL-ScramblingCode ::= SEQUENCE {
   uL-ScramblingCodeNumber
                           UL-ScramblingCodeNumber,
   uL-ScramblingCodeLength
                           UL-ScramblingCodeLength,
   iE-Extensions
                           ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } } OPTIONAL,
   . . .
UL-ScramblingCode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-ScramblingCodeNumber ::= INTEGER (0..16777215)
UL-ScramblingCodeLength ::= ENUMERATED {
   short,
   long,
   . . .
USCH-ID ::= INTEGER (0..255)
-- ------
-- ------
-- ------
-- ------
-- ------
-- ------
-- -----
```

9.3.5 NBAP Common Data Type Definitions

```
-- Common definitions
NBAP-CommonDataTypes -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
               ::= ENUMERATED { reject, ignore, notify }
MessageDiscriminator ::= ENUMERATED { common, dedicated }
Presence
               ::= ENUMERATED { optional, conditional, mandatory }
PrivateIE-ID ::= CHOICE {
   local
                   INTEGER (0..65535),
    global
                    OBJECT IDENTIFIER
ProcedureCode ::= INTEGER (0..255)
            ::= SEQUENCE {
ProcedureID
                          INTEGER (0..255),
   procedureCode
   ddMode
                          ENUMERATED { tdd, fdd, common }
ProtocolExtensionID ::= INTEGER (0..65535)
ProtocolIE-ID
               ::= INTEGER (0..65535)
TransactionID
               ::= CHOICE {
    shortTransActionId
                          INTEGER (0..127),
    longTransActionId
                          INTEGER (0..32767)
TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessfull-outcome, outcome }
```

END

9.3.6 NBAP Extension Definitions

```
******************
-- Container definitions
__ *********************
NBAP-Containers -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
  ******************
-- IE parameter types from other modules.
__ ********************
IMPORTS
   Criticality,
   Presence,
   PrivateIE-ID,
   ProtocolExtensionID,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes
   maxProtocolExtensions,
   maxPrivateIEs,
   maxProtocolIEs
FROM NBAP-Constants;
__ *********************
-- Class Definition for Protocol IEs
__ ********************************
NBAP-PROTOCOL-IES ::= CLASS {
        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 {
             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 {
         ProtocolExtensionID
                                UNIQUE,
   &criticality
               Criticality,
   &Extension,
   &presence
                Presence
WITH SYNTAX {
       &id
   ID
   CRITICALITY &criticality
   EXTENSION &Extension
   PRESENCE
             &presence
  ******************
-- Class Definition for Private IEs
```

```
NBAP-PRIVATE-IES ::= CLASS {
         PrivateIE-ID.
   &criticality
               Criticality,
   &Value.
   &presence
                Presence
WITH SYNTAX {
   TD
         &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-Field {NBAP-PROTOCOL-IES : IESSetParam} ::= SEQUENCE {
         NBAP-PROTOCOL-IES.&id
                                ({IEsSetParam}),
              NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),
   criticality
                                    ({IEsSetParam}{@id})
   value
            NBAP-PROTOCOL-IES.&Value
    ****************
-- 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 {
   id NBAP-PROTOCOL-IES-PAIR.&id
                                              ({IEsSetParam}),
   firstCriticality
                      NBAP-PROTOCOL-IES-PAIR.&firstCriticality
                                                          ({IEsSetParam}{@id}),
   firstValue NBAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),
   secondCriticality NBAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),
   secondValue NBAP-PROTOCOL-IES-PAIR.&SecondValue ({IEsSetParam}{@id})
  ****************
-- Container Lists for Protocol IE Containers
```

```
*******************
ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-Container {{IEsSetParam}}
ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR : IESSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-ContainerPair {{IEsSetParam}}
*****************
-- Container for Protocol Extensions
    ****************
ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
   SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
   ProtocolExtensionField {{ExtensionSetParam}}
ProtocolExtensionField {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
         NBAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),
   criticality NBAP-PROTOCOL-EXTENSION.&criticality ({ExtensionSetParam}{@id}),
   extensionValue NBAP-PROTOCOL-EXTENSION.&Extension ({ExtensionSetParam}{@id})
    *****************
-- Container for Private IEs
__ *********************
PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
   SEOUENCE (SIZE (1..maxPrivateIEs)) OF
   PrivateIE-Field {{IEsSetParam}}
PrivateIE-Field {NBAP-PRIVATE-IES : IESSetParam} ::= SEQUENCE {
             NBAP-PRIVATE-IES.&id
   ({IEsSetParam}),
   criticality
                    NBAP-PRIVATE-IES.&criticality
   ({IEsSetParam}{@id}),
             NBAP-PRIVATE-IES.&Value
   ({IEsSetParam}{@id})
END
--9.3.7 Constant Definitions for NBAP
__ **********************
```

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```
-- Constant definitions
__ ********************
NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
     Elementary Procedures
  ****************
id-audit
                                                    INTEGER ::= 0
id-auditRequired
                                                    INTEGER ::= 1
id-blockResource
                                                    INTEGER ::= 2
id-cellDeletion
                                                    INTEGER ::= 3
id-cellReconfiguration
                                                    INTEGER ::= 4
id-cellSetup
                                                    INTEGER ::= 5
id-commonMeasurementFailure
                                                    INTEGER ::= 6
id-commonMeasurementInitiation
                                                    INTEGER ::= 7
id-commonMeasurementReport
                                                    INTEGER ::= 8
id-commonMeasurementTermination
                                                    INTEGER ::= 9
id-commonTransportChannelDelete
                                                    INTEGER ::= 10
id-commonTransportChannelReconfigure
                                                    INTEGER ::= 11
id-commonTransportChannelSetup
                                                    INTEGER ::= 12
id-compressedModeCommand
                                                    INTEGER ::= 14
id-dedicatedMeasurementFailure
                                                    INTEGER ::= 16
id-dedicatedMeasurementInitiation
                                                    INTEGER ::= 17
id-dedicatedMeasurementReport
                                                    INTEGER ::= 18
id-dedicatedMeasurementTermination
                                                    INTEGER ::= 19
id-downlinkPowerControl
                                                    INTEGER ::= 20
id-errorIndicationForDedicated
                                                    INTEGER ::= 21
id-physicalSharedChannelReconfiguration
                                                    INTEGER ::= 37
id-privateMessageForDedicated
                                                    INTEGER ::= 22
id-radioLinkAddition
                                                    INTEGER ::= 23
id-radioLinkDeletion
                                                    INTEGER ::= 24
id-radioLinkFailure
                                                    INTEGER ::= 25
id-radioLinkRestoration
                                                    INTEGER ::= 26
id-radioLinkSetup
                                                    INTEGER ::= 27
id-resourceStatusIndication
                                                    INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation
                                                    INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit
                                                    INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation
                                                    INTEGER ::= 31
id-systemInformationUpdate
                                                    INTEGER ::= 32
id-unblockResource
                                                    INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration
                                                    INTEGER ::= 34
id-errorIndicationForCommon
                                                    INTEGER ::= 35
id-privateMessageForCommon
                                                    INTEGER ::= 36
```

```
__ ****************
-- Extension constants
__ *********************
maxPrivateIEs
                            INTEGER ::= 65535
maxProtocolExtensions
                            INTEGER ::= 65535
                            INTEGER ::= 65535
maxProtocolIEs
__ *******************
-- Lists
__ *********************
maxNrOfCodes
                        INTEGER ::= 10
maxNrOfDLTSs
                         INTEGER ::= 15
maxNrOfDLCodes
                        INTEGER ::= 8
maxNrOfErrors
                        INTEGER ::= 256
maxNrOfTFs
                        INTEGER ::= 32
maxNrOfTFCs
                        INTEGER ::= 1024
                        INTEGER ::= 16
maxNrOfRLs
maxNrOfRLSets
                        INTEGER ::= maxNrOfRLs
maxNrOfDPCHs
                        INTEGER ::= 240
                        INTEGER ::= 8
maxNrOfSCCPCHs
maxNrOfCPCHs
                         INTEGER ::= 10 -- temporary value
maxNrOfPCPCHs
                         INTEGER ::= 64
                         INTEGER ::= 128
maxNrOfDCHs
maxNrOfDSCHs
                         INTEGER ::= 32
maxNrOfFACHs
                         INTEGER ::= 8
maxNrOfCCTrCHs
                        INTEGER ::= 16
                        INTEGER ::= 256
maxNrOfPDSCHs
maxNrOfPUSCHs
                        INTEGER ::= 256
maxNrOfPDSCHSets
                        INTEGER ::= 256
maxNrOfPUSCHSets
                        INTEGER ::= 256
                         INTEGER ::= 15
maxNrOfULTSs
maxNrOfUSCHs
                        INTEGER ::= 32
maxAPSiqNum
                        INTEGER ::= 16
maxNrOfSlotFormatsPRACH
                         INTEGER ::= 8
maxCellinNodeB
                         INTEGER ::= 256
maxCCPinNodeB
                         INTEGER ::= 256
maxCPCHCell
                         INTEGER ::= 64
maxCTFC
                         INTEGER ::= 16777215
maxLocalCellinNodeB
                         INTEGER ::= maxCellinNodeB
maxNoofLen
                         INTEGER ::= 7
maxRACHCell
                         INTEGER ::= maxPRACHCell
maxPRACHCell
                         INTEGER ::= 16
maxPCPCHCell
                         INTEGER ::= 64
                        INTEGER ::= 32
maxSCCPCHCell
```

```
maxSCPICHCell
                           INTEGER ::= 32
maxTTI-count
                           INTEGER ::= 4
maxIBSEG
                           INTEGER ::= 16
maxIB
                           INTEGER ::= 32
maxFACHCell
                           INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching
                           INTEGER ::= 256
maxCodeNrComp-1
                           INTEGER ::= 256
maxNrOfCodeGroups
                           INTEGER ::= 256
                           INTEGER ::= 256
maxNrOfTFCIGroups
maxNrOfTFCI1Combs
                           INTEGER ::= 512
maxNrOfTFCI2Combs
                           INTEGER ::= 1024
maxNrOfTFCI2Combs-1
                           INTEGER ::= 1023
maxNrOfSF
                           INTEGER ::= 8
maxTGPS
                           INTEGER ::= 6
    *****************
-- IEs
id-AICH-InformationItem-AuditRsp
                                                                   INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd
                                                                   INTEGER ::= 1
id-BCH-InformationItem-AuditRsp
                                                                   INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd
                                                                   INTEGER ::= 8
id-BCCH-ModificationTime
                                                                   INTEGER ::= 9
id-BlockingPriorityIndicator
                                                                   INTEGER ::= 10
id-CaselItem-Cell-SetupRqstTDD
                                                                   INTEGER ::= 11
id-Case2Item-Cell-SetupRgstTDD
                                                                   INTEGER ::= 12
id-Cause
                                                                   INTEGER ::= 13
id-CCP-InformationItem-AuditRsp
                                                                   INTEGER ::= 14
id-CCP-InformationList-AuditRsp
                                                                   INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd
                                                                   INTEGER ::= 16
id-Cell-InformationItem-AuditRsp
                                                                   INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd
                                                                   INTEGER ::= 18
id-Cell-InformationList-AuditRsp
                                                                   INTEGER ::= 19
id-CellItem-CM-Rprt
                                                                   INTEGER ::= 20
id-CellItem-CM-Rgst
                                                                   INTEGER ::= 21
id-CellItem-CM-Rsp
                                                                   INTEGER ::= 22
id-CellParameterID
                                                                   INTEGER ::= 23
id-CFN
                                                                   INTEGER ::= 24
id-C-ID
                                                                   INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD
                                                                   INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD
                                                                   INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD
                                                                   INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD
                                                                   INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD
                                                                   INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt
                                                                   INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst
                                                                   INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp
                                                                   INTEGER ::= 33
id-CommonMeasurementType
                                                                   INTEGER ::= 34
```

dal Garage and Photonia and Others and TD	TATELOED 25
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommunicationControlPortID	INTEGER ::= 40
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRgstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRgstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRgstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRgstTDD	INTEGER ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rgst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRgstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfrgstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfigstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 92 INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfrepFDD id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 93
id-DSCH-DeteceList-kL-keconikqstFDD id-DSCH-ID	INTEGER := 94 INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97

id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-AdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148
id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRgstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153

id-RL-InformationItem-DM-Rprt

id-RL-InformationItem-DM-Rgst

id-RL-InformationItem-RL-AdditionRgstFDD

id-RL-informationItem-RL-DeletionRqst

id-RL-InformationItem-RL-FailureInd

id-RL-InformationItem-DM-Rsp

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INTEGER ::= 202

INTEGER ::= 203

INTEGER ::= 204

INTEGER ::= 205

INTEGER ::= 206

INTEGER ::= 207

id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231
id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254
id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259

110 1 00000 7 0 11 71 0 11 0 1000	T17000000 060
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRgstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280
id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-Active-Pattern-Sequence-Information	INTEGER ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 316
id-AdjustmentRatio	INTEGER ::= 317
id-AllRLItem-DM-Rqst	INTEGER ::= 318

id-AllRLItem-Set-DM-Rqst	INTEGER ::= 319
id-AP-AICH-InformationItem-AuditRsp	INTEGER ::= 320
id-AP-AICH-InformationItem-ResourceStatusInd	INTEGER ::= 321
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	INTEGER ::= 324
id-CauseLevel-RL-AdditionFailureFDD	INTEGER ::= 325
id-CauseLevel-RL-AdditionFailureTDD	INTEGER ::= 326
id-CauseLevel-RL-ReconfFailure	INTEGER ::= 327
id-CauseLevel-RL-SetupFailureFDD	INTEGER ::= 328
id-CauseLevel-RL-SetupFailureTDD	INTEGER ::= 329
id-CDCA-ICH-InformationItem-AuditRsp	INTEGER ::= 330
id-CDCA-ICH-InformationItem-ResourceStatusInd	INTEGER ::= 331
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	INTEGER ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	INTEGER ::= 334
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD	INTEGER ::= 335
id-CPCH-InformationItem-AuditRsp	INTEGER ::= 336
id-CPCH-InformationItem-ResourceStatusInd	INTEGER ::= 337
id-CPCHItem-CM-Rprt	INTEGER ::= 338
id-CPCHItem-CM-Rqst	INTEGER ::= 339
id-CPCHItem-CM-Rsp	INTEGER ::= 340
id-CPCHListItem-CTCH-ReconfRqstFDD	INTEGER ::= 341
id-CPCH-Parameters-CTCH-SetupRsp	INTEGER ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 343
id-DCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 344
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 345
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	INTEGER ::= 353
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 354
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	INTEGER ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	INTEGER ::= 357
id-DL-TPC-Pattern01Count	INTEGER ::= 358
id-DPCHConstant	INTEGER ::= 359
id-DSCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 360
id-DSCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 361
id-FACH-ParametersList-CTCH-SetupRsp	INTEGER ::= 362
id-GeneralCauseItem-PSCH-ReconfFailureTDD	INTEGER ::= 363
id-GeneralCauseItem-RL-AdditionFailureFDD	INTEGER ::= 364
id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 365
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 366
id-GeneralCauseItem-RL-SetupFailureFDD	INTEGER ::= 367
id-GeneralCauseItem-RL-SetupFailureTDD	INTEGER ::= 368
id-Limited-power-increase-information-Cell-SetupRqstFDD	INTEGER ::= 369

$\verb id-MeasurementAvailableItem-CommonMeasurementReport \\$	INTEGER ::= 370
$\verb id-Measurement not Available \verb Item-CommonMeasurement Report$	INTEGER ::= 371
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 372
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 373
id-PCH-Parameters-CTCH-SetupRsp	INTEGER ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	INTEGER ::= 375
id-PCPCH-InformationItem-AuditRsp	INTEGER ::= 376
id-PCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 377
id-PCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 378
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 379
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	INTEGER ::= 380
id-PRACHConstant	INTEGER ::= 381
id-PRACHListIE-CTCH-ReconfRqstFDD	INTEGER ::= 382
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 383
id-PUSCHConstant	INTEGER ::= 384
id-RACH-Parameters-CTCH-SetupRsp	INTEGER ::= 385
id-RLSpecificCauseItem-RL-AdditionFailureFDD	INTEGER ::= 386
id-RLSpecificCauseItem-RL-AdditionFailureTDD	INTEGER ::= 387
id-RLSpecificCauseItem-RL-ReconfFailure	INTEGER ::= 388
id-RLSpecificCauseItem-RL-SetupFailureFDD	INTEGER ::= 389
id-RLSpecificCauseItem-RL-SetupFailureTDD	INTEGER ::= 390
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD	INTEGER ::= 391
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD	INTEGER ::= 392
id-Synchronisation-Configuration-Cell-ReconfRqst	INTEGER ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst	INTEGER ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	INTEGER ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	INTEGER ::= 403
id-UL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 404
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	INTEGER ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	INTEGER ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	INTEGER ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	INTEGER ::= 409
id-USCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 410
id-USCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 411

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].

[Editor's note: The dating of reference [11] needs to be verified. It has been included from the ITU-T list of recommendations in force. The dating of the reference is FFS.]

9.5 Timers

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:

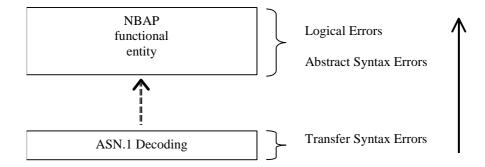


Figure 38: Protocol Errors in NBAP.

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 concerning object, the IEs or IE groups should 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.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error 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.

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 chapter 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

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 concerning 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;
- 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.

10.3.4 Not comprehended IE/IE group

10.3.4.1 Procedure Code

The receiving node shall treat the different types of received criticality information of the *Procedure Code* according to the following:

Reject IE:

- If a message is received with a *Procedure Code* 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 Code* 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 Code* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

10.3.4.2 IEs other than the Procedure Code

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code* 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.
- 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 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 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 n the response message of the procedure 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 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.

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.
- 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 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 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 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.
- 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 initiate the Error Indication procedure.

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 continue with the procedure based on the other IEs/IE groups present in the message.

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 failure message, the failure 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 failure message, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 1 procedure, local error handling shall be initiated.

Class 2:

Where the logical error occurs in a message of a class 2 procedure, the ERROR INDICATION procedure shall be initiated with an appropriate cause value.

Annex A (informative): Change history

Change 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

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History

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