## TSGRP#10(00)0629

## TSG-RAN Meeting #10 Bangkok, Thailand, 6 - 8 December 2000

Title: Agreed CRs to TS 25.433

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Nu	CR_Subject	CR_Categor	WG_Status	Cur_Ver_Nu	New_Ver_Nu
R3-003204	25.433	300	1	Transport bearer establishment	F	agreed	3.3.0	3.4.0
R3-003247	25.433	301	1	Clarification of the Handling of Common and Dedicated	F	agreed	3.3.0	3.4.0
R3-003238	25.433	302	1	Segmentation of AUDIT RESPONSE	F	agreed	3.3.0	3.4.0
R3-003248	25.433	303	1	Modification of System Information Update procedure	F	agreed	3.3.0	3.4.0
R3-003015	25.433	304		TFCI2 transmit power	F	agreed	3.3.0	3.4.0
R3-003269	25.433	305	2	DCH information in TDD messages	F	agreed	3.3.0	3.4.0
R3-003173	25.433	307	1	Relation between UL and DL CCTrCH for TPC	F	agreed	3.3.0	3.4.0
R3-003275	25.433	308	2	Variability of SF in UL Physical Channel for TDD	F	agreed	3.3.0	3.4.0
R3-003064	25.433	309		Resource Status Indication corrections for TDD	F	agreed	3.3.0	3.4.0
R3-003271	25.433	312	2	Extensibility correction for FACH Information Response:	F	agreed	3.3.0	3.4.0
R3-003095	25.433	313		Refinement for extension tools in ASN.1	F	agreed	3.3.0	3.4.0
R3-003254	25.433	314	1	Correction on CPCH	F	agreed	3.3.0	3.4.0

R3-003177	25.433	316	1	Minor changes to NBAP	F	agreed	3.3.0	3.4.0
R3-003138	25.433	318		Clarification of Assignments of ASN.1 Constants	F	agreed	3.3.0	3.4.0
R3-003227	25.433	320	1	Round trip time (UTRAN) for NBAP	F	agreed	3.3.0	3.4.0
R3-003182	25.433	321		Dated References to RAN WG4 specs	F	agreed	3.3.0	3.4.0
R3-003184	25.433	322		Introduction of extension of ddMode	F	agreed	3.3.0	3.4.0
R3-003220	25.433	323	1	Extensibility Correction for DCH Information Response	F	agreed	3.3.0	3.4.0

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#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G\_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

#### 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

If a new transport bearer is required for the new reconfiguration and it is not available at the requested CFN, the Node B shall initiate the Radio Link Failure procedure.

#### 8.3.12.2 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 Sets the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links/Radio Link Sets are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link/Radio Link Set from the UE context, or the UE context itself. When applicable, the retention priorities associated to the transport channels shall be used by the Node B to prioritise which Radio Links/Radio Link Sets to indicate as unavailable to the CRNC.

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation, the message shall be sent, with the cause value 'Synchronisation Failure', 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].

In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links or Radio Link Sets are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Links from the UE context, or the UE context itself.

Typical cause values are:

#### **Radio Network Layer Causes:**

- Synchronisation Failure

**Transport Layer Causes:** 

- Transport Resources Unavailable

#### **Miscellaneous Causes:**

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

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#### 8.2.14 Cell Deletion

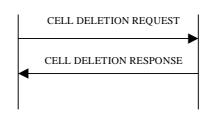
#### 8.2.14.1 General

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

#### 8.2.14.2 Successful Operation

CRNC

Node B



#### Figure 14: 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 <u>remaining common and dedicated channels</u> within the <u>cell-cell created by the</u> <u>Cell Setup procedure or Common Transport Channel Setup procedure</u>. The states for the cell and the deleted <u>common</u> channels shall be set to Not Existing [6]. <u>The Node B shall remove all Radio Links from the Cell and all Node B</u> <u>Communication Contexts that as a result do not have a Radio Link. The Node B shall also initiate release of the user</u> plane transport bearers for the removed common and dedicated channels.

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

#### 8.2.14.3 Unsuccessful Operation

#### 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.

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#### 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 *Indication Type* IE set equal to "No Failure", the Local Cell Id IE and the Add/Delete Indicator IE set equal to 'Add'. 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 Local Cell are modelled independently in the Uplink and Downlink direction. If the "UL Capacity Credit" IE is not present, then the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink. The new resulting Node B capability shall be indicated within the NodeB Information IE group. 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. If the "UL Capacity Credit" is not present, 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 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 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.

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 *Indication Type* IE set equal to "No Failure", the Local Cell Id IE and the Add/Delete Indicator IE set equal to 'Delete'. The new resulting Node B capability shall be indicated within the NodeB Information IE group. 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. 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 *Indication Type* IE set equal to "Service Impacting" and the Local Cell Id. The Node B shall include the *Minimum DL Power Capability* IE when it is known by the Node B. If the

DL power capability has changed, the new capability shall be indicated in the *DL Power Capability* IE. If the DL capability for supporting the minimum spreading factor has changed, the new capability shall be indicated in the *Minimum Spreading Factor* IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value. If the internal resource capabilities of the Local Cell are affected, it shall be reported in the following way: If the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink, the new capacity shall be reported in the DL or Global Capacity Credit IE. If the internal resource capabilities of the Local Cell are modelled and Downlink direction, then the DL or Global Capacity Credit IE and the UL Capacity Credit IE shall be present in the RESOURCE STATUS INDICATION. If the maximum DL power capability of the Local Cell is affected, this shall be reported using the Maximum DL Power Capability IE.

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 *Indication Type* IE set equal to "Service Impacting", the C-ID IE, the *Resource Operational State* IE and the *Availability Status* IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

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

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

When 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 *Indication Type* IE set equal to "Service Impacting" and the Communication Control Port ID IE. The Cause IE in the RESOURCE STATUS INDICATON 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 *Indication Type* IE set equal to "Service Impacting" and 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.

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

#### 8.2.15.3 Abnormal Conditions

# TSG-RAN Working Group 3 Meeting #17 Chicago, USA, 20<sup>th</sup>-24<sup>th</sup> November 2000

# Document R3-003238 e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

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- behaviour is specified for the case in which no audit sequence is ongoing and a Node B receives and Audit Request not indicating a start;
- Audit Failure is introduced in order to accomplish the goal above described.

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	BSS test specifications	$\rightarrow$ List of CRs:
	O&M specifications	$\rightarrow$ List of CRs:
<u>Other</u> comments:		

# 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 Outcome			
Procedure		Response message	Response message Time			
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]	PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST	PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE	PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE			
Audit	AUDIT REQUEST	AUDIT RESPONSE	AUDIT 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			
Reset	RESET REQUEST	RESET RESPONSE				

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Elementary Procedure	Message
Resource Status Indication	RESOURCE STATUS INDICATION
Audit Required	AUDIT REQUIRED INDICATION
Common Measurement Reporting	COMMON MEASUREMENT
	REPORT
Common Measurement	COMMON MEASUREMENT
Termination	TERMINATION REQUEST
Common Measurement Failure	COMMON MEASUREMENT
	FAILURE INDICATION
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Commit	COMMIT
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Cancellation	CANCELLATION
Radio Link Failure	RADIO LINK FAILURE INDICATION
Radio Link Restoration	RADIO LINK RESTORE INDICATION
Dedicated Measurement Reporting	DEDICATED MEASUREMENT
	REPORT
Dedicated Measurement	DEDICATED MEASUREMENT
Termination	TERMINATION REQUEST
Dedicated Measurement Failure	DEDICATED MEASUREMENT
	FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Control	COMPRESSED MODE COMMAND
Command	
Unblock Resource	UNBLOCK RESOURCE INDICATION
Error Indication	ERROR INDICATION

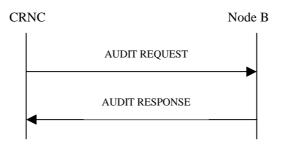
#### Table 2: Class 2

### 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. <u>A complete audit of a Node B is performed by one or more Audit procedures, together perfoming an audit sequence</u>. 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 the *Start of Audit Sequence* IE in the AUDIT REQUEST message is set to "start of audit sequence" a new audit sequence is started, any ongoing audit sequence shall be aborted and the Node B shall provide (part of the) audit information. If the *Start of Audit Sequence* IE is set to "not start of audit sequence", the Node B shall provide (part of) the remaining audit information not already provided during this audit sequence.

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

#### Information Provided In One Audit Sequence.

If a *Configuration Generation ID* IE for a cell can not be trusted, the Node B shall set this *Configuration Generation ID* IE = '0'.

The Node B shall include in the AUDIT RESPONSE message aone 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 and the *Minimum DL Power Capability* IE when any of those values are known by the Node B.

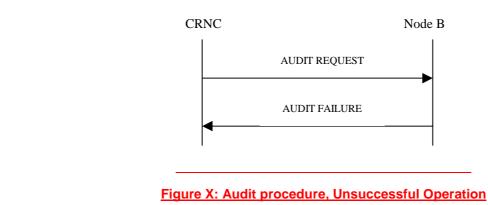
The Node B shall include the Node B internal resource capability and consumption laws <u>in one\_with the "NodeB Information NodeB Information</u> IE group."- If the "UL Capacity Credit" IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between 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 aone *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. If a *Configuration Generation ID* IE for a cell can not be trusted, the Node B shall set this *Configuration Generation ID* IE  $= 0^{\circ}$ .

<u>The Node B shall also include in the AUDIT RESPONSE message, aone</u> Communication Control Port Information IE group for each communication control port in the Node B.

#### 8.2.7.3 Unsuccessful Operation



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

Typical cause values for the AUDIT FAILURE message are:

**Protocol Causes:** 

- Message not Compatible with Receiver State

8.2.7.4 Abnormal Conditions

# 9.1.16 AUDIT REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Start Of Audit Sequence Indicator	M		<u>9.2.1.x</u>		<u>YES</u>	<u>reject</u>

# 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
End Of Audit Sequence Indicator	M		<u>9.2.1.x</u>		<u>YES</u>	<u>ignore</u>
Node B Information		<u>0</u> 1			YES	<u>ignore</u>
>DL or Global Capacity Credit	Μ		9.2.2.12			
>UL Capacity Credit	0		9.2.2.60			
>Common Channels Capacity Consumption Law	М		9.2.2.3			
>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
Cell Information		0 < maxCellin NodeB >			EACH	ignore
>C-ID	М		9.2.1.9		_	
>Configuration Generation ID	М		9.2.1.16			
>Resource Operational State	М		9.2.1.52		_	
>Availability Status	М		9.2.1.2		-	
>Local Cell ID	Μ		9.2.1.38	The local cell that the cell is configured on		
>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	М		9.2.1.2		_	
>Secondary SCH Information		01	0.0.4.40		YES	ignore
>>Common Physical Channel ID >>Resource	M		9.2.1.13 9.2.1.52		-	
Operational State	M		9.2.1.52		-	
>Primary CPICH Information	M	01	9.2.1.2		 YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		_	
>>Resource Operational State	M		9.2.1.52		_	
>>Availability Status	М		9.2.1.2		_	
>Secondary CPICH Information		0 <maxsc PICHCell&gt;</maxsc 			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		_	
>Primary CCPCH Information		01			YES	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	_	
>BCH Information		01		YES	ignore
>>Common Transport Channel ID	М		9.2.1.13	-	-grane
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	_	
>Secondary CCPCH Information		0 <maxsc CPCHCell &gt;</maxsc 		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	_	
>PCH Information		01		EACH	ignore
>Common Transport Channel ID	М		9.2.1.14	-	
>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	_	
>PICH Information		01		YES	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	-	
>FACH Information		0 <maxfa CHCell&gt;</maxfa 		EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14	-	
>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
>PRACH Information		0 <maxpr ACHCell&gt;</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 <maxra CHCell&gt;</maxra 		EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14		
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
>AICH Information		0 <maxra CHCell&gt;</maxra 		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 PCHCell&gt;</maxpc 		EACH	ignore
>>Common Physical Channel ID	М		9.2.1.13	-	
>>Resource	М		9.2.1.52		
	•		· · ·	i I	

Operational State					
Operational State >>Availability Status	М		9.2.1.2		
>CPCH Information	IVI		9.2.1.2	-	
		0 <maxcp CHCell&gt;</maxcp 		EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14	-	
>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
>AP-AICH Information		0 <maxcp CHCell&gt;</maxcp 		EACH	ignore
>Common Physical Channel ID	М		9.2.1.14		
>>Resource Operational State	М		9.2.1.52		
>>Availability Status	М		9.2.1.2		
>CD/CA-ICH Information		0 <maxcp CHCell&gt;</maxcp 		EACH	ignore
>>Common Physical Channel ID	М		9.2.1.14		
>>Resource Operational State	М		9.2.1.52		
>>Availability Status	М		9.2.1.2		
>SCH Information		01		YES	ignore
>>Common Physical Channel ID	М		9.2.1.14	-	5
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
Communication Control Port Information		0 <maxccpi nNodeB&gt;</maxccpi 		EACH	ignore
>Communication Control Port ID	М		9.2.1.15	-	
>Resource Operational State	М		9.2.1.52	-	
>Availability Status	М		9.2.1.2	_	
Local Cell Information		0 <maxlocal CellinNode B&gt;</maxlocal 		EACH	ignore
>Local Cell ID	М		9.2.1.38	_	
>DL or Global Capacity Credit	М		9.2.2.12		
>UL Capacity Credit	0		9.2.2.60		
>Common Channels Capacity Consumption	М		9.2.2.3		
Law >Dedicated Channels Capacity Consumption Law	M		9.2.2.6		
>Maximum DL Power Capability	0		9.2.1.39	-	
>Minimum Spreading Factor	0		9.2.1.47		
>Minimum DL Power Capability	0		9.2.1.46A	-	
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.X AUDIT FAILURE

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

#### 9.2.1.x End Of Audit Sequence Indicator

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

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
End Of Audit Sequence Indicator			ENUMERAT ED(end of audit sequence, not end of audit sequence)	End of audit sequence = all audit information has been provided by the Node B; Not end of audit sequence = more audit information is available;

#### 9.2.1.x Start Of Audit Sequence Indicator

Indicates if the AUDIT REQUEST message initiates a new audit sequence or not.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Start Of Audit Sequence Indicator			ENUMERAT ED(start of audit sequence, not start of audit sequence)	

#### 9.3.2 Elementary Procedure Definitions

\_ \_ -- Elementary Procedure definitions --NBAP-PDU-Discriptions { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Descriptions (0) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN \_ \_ -- IE parameter types from other modules. \_ \_ \_\_\_ IMPORTS Criticality, ProcedureID, MessageDiscriminator, TransactionID FROM NBAP-CommonDataTypes CommonTransportChannelSetupRequestFDD, CommonTransportChannelSetupRequestTDD, CommonTransportChannelSetupResponse, CommonTransportChannelSetupFailure, CommonTransportChannelReconfigurationRequestFDD, CommonTransportChannelReconfigurationRequestTDD, CommonTransportChannelReconfigurationResponse, CommonTransportChannelReconfigurationFailure, CommonTransportChannelDeletionReguest, CommonTransportChannelDeletionResponse, BlockResourceRequest, BlockResourceResponse, BlockResourceFailure, UnblockResourceIndication, AuditFailure, AuditRequiredIndication, AuditRequest, AuditResponse, CommonMeasurementInitiationRequest, CommonMeasurementInitiationResponse, CommonMeasurementInitiationFailure, CommonMeasurementReport,

#### \*\*\*\*\*some parts of the module have been removed\*\*\*\*\*

```
-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelReconfigurationRequestFDD
                            CommonTransportChannelReconfigurationResponse
    SUCCESSFUL OUTCOME
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelReconfigurationRequestTDD
                            CommonTransportChannelReconfigurationResponse
    SUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelReconfigure, ddMode tdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelDelete ***
commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelDeletionRequest
    SUCCESSFUL OUTCOME
                            CommonTransportChannelDeletionResponse
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-commonTransportChannelDelete, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            AuditRequest
    SUCCESSFUL OUTCOME
                            AuditResponse
    UNSUCCESSFUL OUTCOME
                            AuditFailure
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-audit, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
```

#### 9.3.3 PDU Definitions

---- PDU definitions for NBAP. --// partly ommitted DL-TPC-Pattern01Count, DPCH-ID, DSCH-ID, End-Of-Audit-Sequence-Indicator, FDD-DL-ChannelisationCodeNumber, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, // partly ommitted SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, // partly ommitted id-DSCH-ModifyItem-RL-ReconfPrepFDD, id-DSCH-ModifyItem-RL-ReconfRqstFDD, id-DSCH-ModifyList-RL-ReconfPrepFDD, id-End-Of-Audit-Sequence-Indicator, id-FACH-InformationItem-AuditRsp, id-FACH-InformationItem-ResourceStatusInd, id-FACHItem-CTCH-SetupRsp, // partly ommitted id-SFN, id-ShutdownTimer, id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,

// partly ommitted

************************************
 AUDIT FAILURE
************************************
AuditFailure ::= SEQUENCE {
protocolles         Protocolle-Container         {{AuditFailure-IEs}},           protocolextensions         ProtocolextensionContainer         {{AuditFailure-Extensions}}         OPTIONAL,
protocolExtensions ProtocolExtensionContainer {{AuditFailure-Extensions}} OPTIONAL,
$\frac{1}{2}$
AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-Cause       CRITICALITY       ignore       TYPE       Cause       PRESENCE mandatory       }         { ID id-CriticalityDiagnostics       CRITICALITY       ignore       TYPE       CriticalityDiagnostics       PRESENCE optional },
1
AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
$\frac{\ldots}{}$
************************************
 AUDIT REQUEST
AUDII REQUESI
************************************
AuditRequest ::= SEQUENCE {
protocolIEs ProtocolIE-Container {{AuditRequest-IEs}}, protocolExtensions ProtocolExtensionContainer {{AuditRequest-Extensions}} OPTIONAL,
···
}
AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-Start-Of-Audit-Sequence-Indicator CRITICALITY reject TYPE Start-Of-Audit-Sequence-Indicator PRESENCE mandatory },
}
AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
}
************************************
 AUDIT RESPONSE
************************************

proto	onse ::= SEQUENCE { colIEs colExtensions	ProtocolIE-Container ProtocolExtensionConta	{{AuditRespons ainer {{AuditRes		ensions]	} OPTIONAL,	
}							
AuditResp	onse-IEs NBAP-PROTOCOL	-IES ::= {					
{ ID	id-End-Of-Audit-Seg	uence-Indicator	CRITICALITY	ignore	TYPE	End-Of-Audit-Sequence-Indicator	PRESENCE mandatory }
{ ID	id-NodeBInformation	-AuditRep	CRITICALITY	ignore	TYPE	NodeBInformation-AuditRsp	PRESENCE optional mandatory }
ID	id-Cell-Information	List-AuditRsp	CRITICALITY	ignore	TYPE	Cell-InformationList-AuditRsp	PRESENCE optional }
{ ID	id-CCP-InformationL	ist-AuditRsp	CRITICALITY	ignore	TYPE	CCP-InformationList-AuditRsp	PRESENCE optional }
CCI	P (Communication Contr	ol Port)					- 71
{ ID	id-Local-Cell-Infor	mationList-AuditRsp	CRITICALITY	ignore	TYPE	Local-Cell-InformationList-Audit	Rsp PRESENCE optional }
{ ID	id-CriticalityDiagn	ostics	CRITICALITY	ignore	TYPE	CriticalityDiagnostics	PRESENCE optional },
}							

}

// partly ommitted

-- E

End-Of-Audit-Sequence-Indicator ::= ENUMERATED {

end-of-audit-sequence,

not-end-of-audit-sequence

}

```
-- S
// partly ommitted
SSDT-Indication ::= ENUMERATED {
   ssdt-active-in-the-UE,
   ssdt-not-active-in-the-UE
}
Start-Of-Audit-Sequence-Indicator ::= ENUMERATED {
   start-of-audit-sequence,
  not-start-of-audit-sequence
}
STTD-Indicator ::= ENUMERATED {
   active,
  inactive,
   . . .
}
```

// partly ommitted

## 9.3.6 Constant Definitions

	************************************		
	Constant definitions		
	************************************		
	// partly ommitted		
	id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER	::=
	id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER	::=
	id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER	::=
	id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER	::=
	id-End-Of-Audit-Sequence-Indicator	INTEGER	::=
-	id-FACH-InformationItem-AuditRsp	INTEGER	::=
	id-FACH-InformationItem-ResourceStatusInd	INTEGER	::=
	// partly ommitted		
	id-ServiceImpactingItem-ResourceStatusInd	INTEGER	::=
	id-SFN	INTEGER	::=
	id-ShutdownTimer	INTEGER	::=
	id-Start-Of-Audit-Sequence-Indicator	INTEGER	::=
	id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER	::=
	id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER	::=
	id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER	::=

// partly ommitted

e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

			CHANGE I	REQI	JEST		see embedded help f r instructions on how		
			25.433	CR	303r1		Current Versio	on: <mark>3.3.0</mark>	
GSM (AA.BB) or	3G (	AA.BBB) specifica	tion number $\uparrow$		↑ CR n	umber a	is allocated by MCC s	support team	
For submissic	val n	neeting # here ↑	for a for info		X t version of this form	n is availa	strate non-strate	gic	
Proposed cha			(U)SIM	ME	UT	RAN	/ Radio X	Core Networ	'k
Source:		R-WG3					Date:	November 2	2000
Subject:		Modification	of System Inforn	nation U	pdate proce	dure			
Work item:									
Category: (only one category shall be marked with an X)	F A B C D	Addition of	modification of fea		rlier release		Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
<u>Reason for</u> <u>change:</u>		<ul> <li>The RRC specification was modified regarding the System Information structure, introducing two new Scheduling Blocks and removing the scheduling from the SIBs. This CRs alignes 25.433 with this modification.</li> <li>Consequences if the CR is not approved: 25.433 will not reflect the change in RRC and will result in a misalignment.</li> <li>R1: clarification to a condition in the tabular format is also added in the ASN.1 and some les are now correctly indicated in <i>Italic</i>.</li> </ul>					C and		
Clauses affec	ted	<u>3.3, 8.2</u>	2 <mark>.16, 9.1.33, 9.2.1</mark>	<mark>.35, 9.3</mark>	<mark>.3, 9.3.4, 9.</mark>	3.6			
Other specs affected:									
Other comments:									

<----- double-click here for help and instructions on how to create a CR.

# 3.3 Abbreviations

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

15

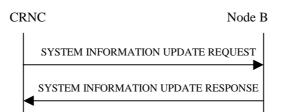
ASN.1	Abstract Syntax Notation One
ATM	Asynchronous Transfer Mode
BCCH	Broadcast Control Channel
CCPCH	Common Control Physical Channel
CFN	Connection Frame Number
СМ	Compressed Mode
CPCH	Common Packet Channel
CRNC	Controlling Radio Network Controller
DCH	Dedicated Channel
DL	Downlink
DPCCH	Dedicated 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
MIB	Master Information Block
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
SB	Scheduling Block
<u>SIB</u>	System Information Block
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

#### 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/<u>SB/</u>SIB information is included in the SYSTEM INFORMATION UPDATE REQUEST message.

If the SYSTEM INFORMATION UPDATE message includes the <u>BCCH Modification Time BCCH Modification Time</u> IE, the updates to the BCCH schedule (possibly consisting of IB occurrence additions, IB occurrence deletions and IB occurrence 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/<u>SB/</u>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 in addition to SIB or <u>SB</u> 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 <u>SB</u>/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**

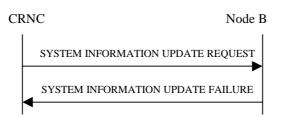
If the *IB Deletion Indicator* IE value is set to 'Deletion' the Node B shall delete the IB indicated by the *IB Type* IE and *IB OC ID* IE from the transmission schedule on BCCH.

#### **Information Block update**

If the SYSTEM INFORMATION UPDATE REQUEST message contains segments for an IB and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a <u>MIB/SIB information *MIB/SB/SIB information*</u> 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 <u>MIB/SIB information</u> <u>MIB/SB/SIB information</u> IE group repetition, an illegal BCCH schedule results;
- if a MIB/<u>SB</u>/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 and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a <u>MIB/SIB information *MIB/SB/SIB information* IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated;
  </u>
- if a MIB/<u>SB/</u>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 and IB OC ID;
- if a MIB/<u>SB</u>/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 and IB OC ID but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a <u>MIB/SIB information</u>.*MIB/SB/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.

## 9.1.33 SYSTEM INFORMATION UPDATE 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
BCCH Modification Time	0		9.2.1.3		YES	reject
MIB/ <u>SB/</u> SIBInformation		1 maxIB			GLOBAL	reject
>IB Type	М		9.2.1.35		-	
>IB OC ID	Μ		9.2.1.31A	In one message, every occurrence of IB Type can only be deleted once and/or added once.	_	
>CHOICE IB						
DeletionIndicator						
>>NoDeletion					YES	reject
>>>SIB Originator	C- NotMIB <u>SIB</u>		9.2.1.55		-	
>>>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' or if the IB Type equals "MIB", "SB1" or
	<u>"SB2".</u>
NotMIBSIB	This IE shall be present if the IB Type is not equal to
	" <mark>MS</mark> IB"

The IB  $\underline{T}_{t}$  ype identifies a specific system information block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ІВ Туре			Enumerated	
			(MIB, <u>SB1,</u>	
			<u>SB2,</u> SIB1,	
			SIB2	
			SIB3, SIB4,	
			SIB5, SIB6,	
			SIB7, SIB8,	
			SIB9, SIB10,	
			SIB11,	
			SIB12,	
			SIB13,	
			SIB13.1	
			SIB13.2,	
			SIB13.3,	
			SIB13.4,	
			SIB14,	
			SIB15,	
			SIB15.1,	
			SIB15.2,	
			SIB15.3,	
			SIB16,)	

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### 9.3.3 PDU Definitions

\*\*\*\*\*\* -- PDU definitions for NBAP. \_ \_ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGE ::= BEGIN \_\_\_\_ -- IE parameter types from other modules. \_ \_ IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, \*\*\*\*\*TEXT HAS BEEN OMITTED\*\*\*\*\* id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-MeasurementAvailableItem-CommonMeasurementReport, id-MeasurementnotAvailableItem-CommonMeasurementReport, id-MeasurementAvailableItem-DedicatedMeasurementReport, id-MeasurementnotAvailableItem-DedicatedMeasurementReport, id-MeasurementFilterCoefficient, id-MeasurementID, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst, 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,

#### \*\*\*\*TEXT HAS BEEN OMITTED\*\*\*\*

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

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```
No-Deletion-SystemInfoUpdate ::= ProtocolIE-Single-Container {{ No-DeletionIE-SystemInfoUpdate }}
No-DeletionIE-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-No-DeletionItem-SystemInfoUpdate CRITICALITY reject TYPE No-DeletionItem-SystemInfoUpdate
                                                                                                              PRESENCE mandatory
}
No-DeletionItem-SystemInfoUpdate ::= SEQUENCE {
    sIB-Originator
                                            SIB-Originator
                                                                         OPTIONAL,
    -- This IE shall be present if the IB-Type is not equal to "MSIB"
    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 ::= ProtocollE-Single-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}
SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-SegmentInformationListIE-SystemInfoUpdate CRITICALITY reject TYPE SegmentInformationListIE-SystemInfoUpdate
                                                                                                                                 PRESENCE mandatory }
SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate
SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    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" or the IB-Type is "MIB", "SB1" or "SB2"
                                            ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
SeqmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

. . .

```
_ _
-- Information Element Definitions
___
NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
  maxNrOfTFCs,
  maxNrOfErrors,
  maxCTFC,
  maxNrOfTFs,
  maxTTI-count,
  maxRateMatching,
  maxCodeNrComp-1,
  maxNrOfCodeGroups,
  maxNrOfTFCIGroups,
   maxNrOfTFCI1Combs,
   maxNrOfTFCI2Combs,
   maxNrOfTFCI2Combs-1,
  maxNrOfSF,
   maxTGPS
FROM NBAP-Constants
   Criticality,
   ProcedureID,
```

Information Elements Definitions

```
ProtocolIE-ID,
TransactionID,
TriggeringMessage
FROM NBAP-CommonDataTypes
```

9.3.4

```
ProtocolExtensionContainer{},
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
```

```
--- A
```

```
Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15,...)
```

```
Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
```

```
-- I
IB-OC-ID ::= INTEGER (1..16)
IB-SG-DATA ::= BIT STRING
IB-SG-POS ::= INTEGER (0..4094)
-- Only even positions allowed
IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}
IB-Type ::= ENUMERATED {
   mib,
   sb1,
   sb2,
   sibl,
   sib2,
   sIB3,
   sIB4,
   sIB5,
   sIB6,
   sIB7,
   sIB8,
   sIB9,
   sIB10,
   sIB11,
   sib12,
   sIB13,
   sIB13dot1,
   sIB13dot2,
   sIB13dot3,
   sIB13dot4,
   sIB14,
   sIB15,
   sIB15dot1,
   sIB15dot2,
   sIB15dot3,
   sIB16,
   . . .
}
IndicationType ::= ENUMERATED {
   noFailure,
   serviceImpacting,
   . . .
}
-- J
```

### 9.3.6 Constant Definitions

--

-- Constant definitions

NBAP-Constants {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

#### 3GPP TS 25.433 version 3.3.0 Release 1999

id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92
id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
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-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 <mark>-SB</mark> -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 id-P-SCH-InformationItem-AuditRsp 426

INTEGER ::= 147 INTEGER ::= 148

CR-Form-v3										
ж	25.43	<mark>3</mark> CR <mark>3</mark>	04	ж	rev	<b>-</b> *	Current v	ersion:	3.3.0	<b>)</b> #
For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>X</b> symbols.										
Proposed change a	affects:	ដ (U)Sl	M	ME/UE	F	Radio A	ccess Netw	ork X	Core N	letwork
Title: ដ	TFCI2	transmit po	wer							
Source: ೫	R-WG	3								
Work item code: %							Date:	ж <mark>Nc</mark>	vember 2	2000
Category: ж	F						Release:	<mark>೫ R</mark> ទ	9	
	Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tetailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5						?) 3) 7) 3)			
	R-WG3									
Reason for change. Summary of change							rroneousiy	defined	as zero	dbm.
Consequences if not approved:		this error c ode B and		t defined	l there	might b	e interopei	ability p	oroblems	with
Clauses offerstail	aa 🔒	0470 00								
Clauses affected: Other specs Affected:	ж	2.17.2, 8.3 Other core Test spec O&M Spe	e specific fications		ж					
Other comments:	ж									

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G\_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

### 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 24: 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, including also combinations where one or more transport channel types are not present.]

[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.]

[FDD – If the received *Limited Power Increase* IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control.]

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

If the RADIO LINK SETUP REQUEST message includes a *DCH 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.

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL

Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

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

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

The *Retention Priority* IE defines the priority level that should be used by the Node B to prioritise the retention of the resources used by the DCHes in error situation.

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

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* IE 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 *SSDT Cell Identity* IE, the Node B shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *TFCI2 Bearer Information* IE then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of ToAWS and ToAWE specified in the IE's. The *Binding ID* IE and *Transport Layer Address* IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the *TFCI Signaling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information* IE is not included in the message then the Node B shall set transmit the TFCI2 field transmit with zero power to zero dbm.]

[FDD - If the *TFCI Signaling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI and the *TFCI2 BearerI nformation* IE is included in the message then the Node B shall set-transmit the TFCI2 field transmit with zero power to zero dbm until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer (see ref.[24]).]

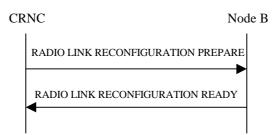
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 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 any *DCHs to Modify* IEs then the Node B shall treat them each as follows:

- If the *DCHs to Modify* IE includes the *Retention Priority* IE, the Node B should use this information to prioritise the retention of the resources used by the DCHes in error situation.
- If the *DCHs to Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes 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 *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of coordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH Id* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH Id* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs then the Node B shall treat them each as follows:

- The Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration.
- If the *DCHs to Add* IE 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.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16]].
- For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16]].
- The Node B 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.
- [TDD The Node B shall apply the *CCTrCH Id* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH Id* IE (for the UL) in the Uplink of this DCH in the new configuration.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Delete* IEs, the Node B shall not include the referenced DCHs in the new configuration.

If all of 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 an *UL DPCH Information* IE then the Node B shall apply the parameters to the new configuration as follows: ]

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD If the *UL DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuratio
- [FDD The Node B shall use the *TFCS* IE for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPCCH Slot Format* IE, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Diversity Mode* IE, the Node B shall apply diversity according to the given value.]
- [FDD If the *UL DPCH Information* IE includes an *SSDT Cell Identity Length* IE and/or an *S-Field Length* IE, the Node B shall apply the values in the new configuration.]

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

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCCH Slot Format* IE, group the Node B shall set the new Downlink DPCCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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.]

[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, and the Transmission Gap Pattern Sequence Codes to be used in the new Compressed Mode Configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH to Modify* or *DL CCTrCH to Modify* IEs, then the Node B shall treat them each as follows:]

- [TDD If the IE 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 IE includes any *UL DPCH to add* or *DL DPCH to add* IEs, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH to delete* or *DL DPCH to delete* IEs, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH to modify or DL DPCH to modify IEs, and includes any of Repetition Period IE, Repetition Length IE, or TDD DPCH Offset IE or the message includes UL/DL Timeslot Information and includes any of Midamble shiftand Burst Type IE, Time Slot IE, or TFCI presence IE or the message includes UL/DL Code information the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]

### [TDD – UL/DL CCTrCH Addition]

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

[TDD - If the *UL/DL CCTrCH to Add* IE includes any *UL/DL DPCH Information* IE, the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

#### [TDD – 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.]

#### DSCH Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to modify*, *DSCH to add* or *DSCH to delete IEs*, 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.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCl2 Bearer Information* IE then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.

[FDD - If the *TFCI S ignaling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information* IE is not included in the message then the Node B shall set transmit the TFCI2 field transmit with zero power to zero dbm in the new configuration.]

[FDD - If the *TFCI S ignaling Mode* IE within the RADIO LINK RECONFUGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall set-transmit the TFCI2 field transmit-with zero power to zero dbm until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer in the new configuration (see ref.[24]).]

### 3GPP TSG-RAN WG3 Meeting #17 Chicago, USA, 20-24 November 2000

## Tdoc R3-003269

CHANGE REQUEST								R-Form-v3	
¥	25.	<mark>433</mark>	CR <mark>305</mark>	ж	rev R2	ж	Current vers	<sup>sion:</sup> 3.3.0 <sup>\$</sup>	£
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Reason for change	<u>R-W</u>		performing	PL addition	it is possi	ible in	TDD to not I	have any DCH's t	o add
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		in AS	CR allows DC	are highlig	hted in ye	llow			nuuu
Consequences if not approved:	Ħ		CR was not orted in Radio			owed	physical cor	figurations could	not be
Clauses affected:	æ	9.1.4	0.2, 9.4						
Other specs affected:	ж	Otl Te	her core spec st specificatio M Specificat	ons	¥				
Other comments:	ж								

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G\_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

1

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 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	М		9.2.1.62		-	
RL Information Response		1 <maxno ofRL-1&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>RL Set ID	М		9.2.2.9			
>RSSI	М		9.2.2.39A		-	
>Diversity Indication	М		9.2.1.26		-	
>CHOICE diversity indication					-	
>>Combining					YES	ignore
>>>RL ID	М		9.2.1.53	Reference RL	-	
>>Non combining					YES	ignore
>>>DCH Information Response		1< <i>maxno</i> ofDCHs>			-	
>>>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	accomption		ontiounty
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 &gt;</maxn 		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	М		9.2.3.23			
>>UL Timeslot ISCP	М		9.2.3.26A		_	
>DCH Information		<u>01</u>			=	
_>Diversity Indication	М		9.2.1.26		_	
_>CHOICE diversity indication						
>>Combining				In TDD it indicates whether the old Transport Bearer shall be reused or not	YES	ignore
<u>_&gt;&gt;</u> >>RL ID	М		9.2.1.53	Reference RL	-	
>>>Non combining					YES	ignore
<u>&gt;&gt;&gt;</u> >>DCH Information Response		<u>1</u> ⊕ <m axnoof DCHs&gt;</m 			_	
>>>DCH ID	М		9.2.1.20		_	
>>>>Binding ID	М		9.2.1.4		_	
<u>&gt;&gt;&gt;&gt;</u> Transport Layer Address	М		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	Μ		9.2.1.4		_	
>>Transport Layer Address	Μ		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

- --- RADIO LINK ADDITION RESPONSE TOD \_\_\_\_ RadioLinkAdditionResponseTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkAdditionResponseTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}} OPTIONAL, . . . RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }| { ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory }| id-CriticalityDiagnostics { ID CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . RL-InformationResponse-RL-AdditionRspTDD ::= SEOUENCE { rL-ID 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. dCH-Information DCH-Information-RL-AdditionRspTDD OPTIONAL, dSCH-InformationResponseList DSCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL, uSCH-InformationResponseList USCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, . . . RL-InformationResponse-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-InterferenceItem-RL-AdditionRspTDD UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE { timeSlot TimeSlot, iSCP UL-TimeslotISCP-Value, ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```
. . .
ι
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversitvIndication
                                        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.
    iE-Extensions
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
   . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining
                                                Combining-RL-AdditionRspTDD,
    non-Combining
                                                Non-Combining-RL-AdditionRspTDD,
    . . .
Combining-RL-AdditionRspTDD ::= ProtocollE-Single-Container {{ CombiningLE-RL-AdditionRspTDD }}
CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD CRITICALITY ignore
                                                                    TYPE CombiningItem-RL-AdditionRspTDD
                                                                                                              PRESENCE mandatory
CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                             OPTIONAL,
CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Non-Combining-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ Non-CombiningIE-RL-AdditionRspTDD }}
Non-CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-AdditionRspTDD CRITICALITY ignore
                                                                        TYPE Non-CombiningItem-RL-AdditionRspTDD
                                                                                                                  PRESENCE mandatory }
Non-CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponseList
                                                DCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                                   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,
    transportLaverAddress
                                            TransportLaverAddress,
                                            ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocollE-Single-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}
DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-AdditionRspTDD
    PRESENCE mandatory }
}
DSCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-AdditionRspTDD
DSCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    bindingID
                                        BindingID,
    transportLaverAddress
                                        TransportLaverAddress,
    iE-Extensions
                                        ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }
                                                                                                                                       OPTIONAL,
    . . .
DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocollE-Single-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 ::= SEOUENCE (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 ::= {

. . .

}

	AN WG3 Meeting #17 JS, 20-24 Nov 2000			<b>R3-003173</b> for 3GPP use the format TP-99xxx for SMG, use the format P-99-xxx
	CHANGE	REQUEST	Please see embedded he page for instructions on he	Ip file at the bottom of this ow to fill in this form correctly.
	25.433	CR 307r1	Current Ver	sion: V 3.3.0
GSM (AA.BB) or 3G	(AA.BBB) specification number ↑	↑ CR	R number as allocated by MC	C support team
For submission t		rmation	non-stra	tegic (for SMG use only)
Proposed chang (at least one should be m	e affects: (U)SIM		JTRAN / Radio X	Core Network
<u>Source:</u>	R-WG3		Date	20 Nov 2000
Subject:	Relation between UL and DL C	CTrCH for TPC		
Work item:				
Category:       F         A       A         (only one category       B         shall be marked       C         with an X)       D	Correction Corresponds to a correction Addition of feature Functional modification of fe Editorial modification		Se <b>X</b> Release	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00
Reason for change:	While it is possible to allocat at least one UL CCTrCH. Th	is CR corrects this		UL TPC did assume
	Consequences if not accepted Inconsistency in the specification			
Clauses affected				
affected: I	Other 3G core specifications Other GSM core specifications MS test specifications BSS test specifications O&M specifications	$\begin{array}{c} \textbf{X} \\ \rightarrow \text{ List of } 0 \\ \rightarrow \text{ List of } 0 \\ \hline \end{array}$ $\begin{array}{c} \rightarrow \text{ List of } 0 \\ \rightarrow \text{ List of } 0 \\ \hline \end{array}$ $\begin{array}{c} \rightarrow \text{ List of } 0 \\ \rightarrow \text{ List of } 0 \\ \hline \end{array}$	CRs: CRs: CRs:	
Other comments:				



<----- double-click here for help and instructions on how to create a CR.

## 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	reject
Transaction ID	М		9.2.1.62		_	
UL CCTrCH Information		0 to <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
>UL DPCH Information		01			YES	notify
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot Information		1 <maxnoof ULts&gt;</maxnoof 			_	
>>>Time Slot	Μ		92.3.23		-	
>>>Midamble Shift and Burst Type	М		9.2.3.7		_	
>>>TFCI Presence	М		9.2.1.57		_	
>>>UL Code Information		1 <maxnoof DPCH&gt;</maxnoof 			-	
>>>>DPCH ID	M		9.2.3.5		_	
>>>>TDD Channelisation Code	M		9.2.3.19		_	
DL CCTrCH Information		0 to <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	Μ		9.2.3.22		-	
>Puncture Limit	Μ		9.2.1.50		-	
>TDD TPC DL Step Size	Μ		9.2.3.21			
>TPC CCTrCH List		4 <u>0</u> to <maxnoc CTrCH&gt;</maxnoc 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		_	
>DL DPCH information		01	0.2.0.0		YES	notify
>>Repetition Period	М	1	9.2.3.16		-	
>>Repetition Length	М	1	9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>DL Timeslot Information		1 <maxnoof DLts&gt;</maxnoof 			-	
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift and Burst Type	M		9.2.3.7		_	
>>>TFCI Presence	М		9.2.1.57		_	

		1	I		[[	
>>>DL Code Information		<pre> <maxnoof dpch=""></maxnoof></pre>			_	
>>>DPCH ID	М		9.2.3.5		_	
>>>TDD	М		9.2.3.19		_	
Channelisation Code						
DCH Information		0 to			GLOBAL	reject
		<maxnoof DCHs&gt;</maxnoof 				-
>Payload CRC Presence Indicator	М		9.2.1.49		_	
>UL FP mode	М		9.2.1.66		-	
>ToAWS	М		9.2.1.61		_	
>ToAWE	М		9.2.1.60		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.20		-	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	_	
>>CCTrCH ID	М		9.2.3.3	DL CCTrCH in which the DCH is mapped	-	
>>Transport Format Set	М		9.2.1.59	For UL	-	
>>Transport Format Set	М		9.2.1.59	For DL	_	
>>Retention Priority	М		9.2.1.52A		_	
>>Frame Handling Priority	0		9.2.1.30		_	
>>QE-Selector	C- CoorDCH		9.2.1.50A		_	
DSCH Information		0 to <maxnoof DSCHs&gt;</maxnoof 			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	For DSCH	_	
>Retention Priority	М		9.2.1.52A		_	
>Frame handling Priority	М		9.2.1.30		_	
>ToAWS	М	1	9.2.1.61	1	_	
>ToAWE	М	1	9.2.1.60	1	_	
USCH Information		0 to <maxnoof USCHs&gt;</maxnoof 			GLOBAL	reject
>USCH ID	M		9.2.3.27	1	_	
>CCTrCH ID	М		9.2.3.3	UL CCTrCH in which the USCH is mapped	_	
>Transport Format Set	М		9.2.1.59	For USCH	—	
>Retention Priority	М		9.2.1.52A		_	
RL Information		1			YES	reject
>RL ID	М		9.2.1.53		_	
>C-ID	М	1	9.2.1.9	1	_	
>Frame Offset	М	1	9.2.1.31	1	_	
>Initial DL transmission Power	М		DL Power 9.2.1.21		-	

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>Maximum DL power	М	DL Power 9.2.1.21	_	
>Minimum DL power	М	DL Power 9.2.1.21	_	

Condition	Explanation
CoorDCH	This IE is present only this DCH is part of a set of coordinated DCHs (number of instances of DCH Specific Info is greater than 1)

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
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

# 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	Μ		9.2.1.62		-	
UL CCTrCH to Add		0 <maxno of CCTrC Hs&gt;</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		01			YES	notify
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot Information		1 <maxno ofULts&gt;</maxno 			_	
>>>Time Slot	М		9.2.3.23		-	
>>>Midamble Shift and Burst Type	М		9.2.3.7		_	
>>>TFCI Presence	М		9.2.1.57		_	
>>>UL Code Information		1 <maxno OfDPC H&gt;</maxno 			_	
>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD Channelisation Code	М		9.2.3.19		-	
UL CCTrCH to Modify		0 <maxno of CCTrC Hs&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М				_	
>TFCS	0				_	
>TFCI Coding	0				_	
>Puncture Limit	0				_	
>UL DPCH to add		01			YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>UL Timeslot Information		1 <maxno ofULts&gt;</maxno 			-	
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift and Burst Type	М				-	
>>>TFCI Presence	М				-	

	r	r	1			
>>>UL Code Information		1 <maxno OfDPC H&gt;</maxno 			-	
>>>DPCH ID	M		9.2.3.5	+	_	
>>>TDD	M		9.2.3.19		_	
Channelisation Code	101		0.2.0.10			
		01			YES	notify
>UL DPCH to modify	0	01	9.2.3.16		120	notity
>>Repetition Period	0		9.2.3.15			
>>Repetition Length	0		9.2.3.19 9.2.3.19A		_	
>>TDD DPCH Offset	0	0 to	9.2.3.19A		_	
>>UL Timeslot Information		<maxno ofULts&gt;</maxno 			_	
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift and	0				_	
Burst Type						
>>>TFCI Presence	0				_	
>>>UL Code		0 to			_	
Information		<maxno OfDPC H&gt;</maxno 				
>>>>DPCH ID	M		9.2.3.5	1	_	
>>>>DPCH ID >>>>TDD	M		9.2.3.19		_	
Channelisation Code			0.2.0.10			
>UL DPCH to delete		0			GLOBAL	reject
SOL DFCH to delete		<maxno< td=""><td></td><td></td><td>GLOBAL</td><td>rejeet</td></maxno<>			GLOBAL	rejeet
		of				
		DPCHs				
		>				
>>DPCH ID	М				-	
UL CCTrCH to Delete		0			GLOBAL	reject
		<maxno of</maxno 				
		CCTrC				
		Hs>				
>CCTrCH ID	М				-	
DL CCTrCH to Add		0			GLOBAL	reject
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		of				
		CCTrC Hs				
>CCTrCH ID	M	113	9.2.3.3	1	_	
>TFCS	M		9.2.1.58	1	_	
>TFCI Coding	M		9.2.3.22	1	_	
>PunctureLimit	M		9.2.1.50	+	_	
>TPC CCTrCH List		4 <u>0</u> to	0.2.1.00	List of uplink	_	
		<maxno< td=""><td></td><td>CCTrCH</td><td></td><td></td></maxno<>		CCTrCH		
		CCTrC		which		
		H>		provide TPC		
>>TPC CCTrCH ID	М		CCTrCH		—	
			ID			
		01	9.2.3.3		YES	notify
>DL DPCH Information	М	01	9.2.3.16		160	пошу
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	M				-	
>>TDD DPCH Offset	IVI	1	9.2.3.19A		_	
>>DL Timeslot Information		1 <maxno< td=""><td></td><td></td><td>—</td><td></td></maxno<>			—	
		ofDLts>				
>>>Time Slot	Μ	0.02002	9.2.3.23	1	_	
>>>Midamble Shift and	M		9.2.3.7	1	_	
Burst Type						

>>>TFCI Presence	М		9.2.1.57			
>>>DL Code	vi	1	0.2.1.07		_	
Information		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
information		OfDPC				
		H>	0005			
	M		9.2.3.5		-	
	М		9.2.3.19		_	
Channelisation Code		0				re ie et
DL CCTrCH to Modify		<i>0</i> <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		of				
		CCTrC				
	-	Hs				
FOOTIONIE	М				-	
211.00	0				_	
> IT OF OOding	0				-	
FT anotaroEmme	0				-	
>TPC CCTrCH List		0 to		List of uplink CCTrCH	-	
		<maxno CCTrC</maxno 		which		
		H>		provide TPC		
>>TPC CCTrCH ID	М		CCTrCH		_	
			ID			
		01	9.2.3.3		YES	notify
>DL DPCH to add	M	01	9.2.3.16		TES	noury
	M		9.2.3.10		_	
FFItopotation Eoligan	M		9.2.3.15 9.2.3.19A		_	
FF TBB BT OTT Official	VI	1	9.2.3.19A		_	
>>DL Timeslot Information		i <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
		ofDLts>				
>>>Time Slot	М		9.2.3.23		-	
>>>Midamble Shift and	М				-	
Burst Type						
>>>TFCI Presence N	М				-	
>>>DL Code		1			-	
Information		<maxno OfDPC</maxno 				
		H>				
>>>>DPCH ID	М		9.2.3.5		_	
	М		9.2.3.19		-	
Channelisation Code						
>DL DPCH to modify		01			YES	notify
	С		9.2.3.16		_	
	С		9.2.3.15		_	
	С		9.2.3.19A		_	
>>DL Timeslot Information		0			_	
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
	1	ofDLts>	0.0.0.00			
	N		9.2.3.23		-	
	C				_	
Burst Type	C					
	-	0			-	
>>>DL Code		o <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information		OfDPC				
		H>				
	М		9.2.3.5		-	
	Μ		9.2.3.19		-	
>>>TDD M Channelisation Code Channelisation Code		0			GLOBAL	reject

					1	
		<maxno of</maxno 				
		DPCHs				
		>				
>>DPCH ID	М	-			_	
DL CCTrCH to Delete		0			GLOBAL	reject
DE COmon to Delete		<maxno< td=""><td></td><td></td><td>0101/1</td><td></td></maxno<>			0101/1	
		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>				
	0	118>	9.2.1.66		_	
>UL FP Mode	0		9.2.1.61		_	
>ToAWS	0					
>ToAWE	0	4	9.2.1.60		—	
>DCH Specific Info		1 <max noofDC</max 			_	
		Hs>				
>>DCH ID	М		9.2.1.20		_	
>>CCTrCH ID	0		9.2.3.3	UL CCTrCH		
	Ū		0.2.0.0	in which the		
				DCH is		
				mapped.		
>>CCTrCH ID	0		9.2.3.3	DL CCTrCH	-	
				in which the		
				DCH is		
	0		0.04.50	mapped		
>>Transport Format Set	0		9.2.1.59	For the UL.	_	
>>Transport Format Set	0		9.2.1.59	For the DL.	_	
>>Retention Priority	0		9.2.1.52A		—	
>>Frame Handling Priority	0		9.2.1.30		-	
DCHs to Add		0 <max< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></max<>			GLOBAL	reject
		noofDC Hs>				
	M	118>	9.2.1.49		_	
>Payload CRC Presence	101		5.2.1.45			
Indicator	M		9.2.1.66		_	
>UL FP Mode	M		9.2.1.61		_	
>ToAWS					_	
>ToAWE	М		9.2.1.60	-	_	
>DCH Specific Info		1 <max noofDC</max 			_	
		Hs>				
>>DCH ID	М	1102	9.2.1.20		_	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH	_	
	101		0.2.0.0	in which the		
				DCH is		
				mapped.		
>>CCTrCH ID	М		9.2.3.3	DL CCTrCH	-	
				in which the		
				DCH is		
	Μ	+	9.2.1.59	mapped For the UL.	_	
>>Transport Format Set	M		9.2.1.59	For the DL.	_	
>>Transport Format Set		-		FOI THE DL.	-	
>>Retention Priority	M		9.2.1.52A		-	
>>Frame Handling Priority	M		9.2.1.30		-	
>>QE-Selector	C-CoorDCH		9.2.1.50A		-	
DCHs to Delete		0 <max< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></max<>			GLOBAL	reject
		noofDC Hs>				
	M	-01	9.2.1.20			
>DCH ID			3.2.1.20		_	

DSCH Information to modify		0 <maxno of DSCHs &gt;</maxno 			GLOBAL	reject
>DSCH ID	М		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		-	
>Retention Priority	0		9.2.1.52A		-	
>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 &gt;</maxno 			GLOBAL	reject
>DSCH ID	М		9.2.1.27		_	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	М		9.2.1.59		-	
>Retention Priority	М		9.2.1.52A		-	
>Frame handling Priority	0		9.2.1.30		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
DSCH Information to delete		0 <maxno of DSCHs &gt;</maxno 			GLOBAL	reject
>DSCH ID	М		9.2.1.27		_	
USCH Information to modify		0 <maxno of USCHs &gt;</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		_	
>Transport Format Set	0		9.2.1.59		-	
>Retention Priority	0		9.2.1.52A		-	
>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the USCH is mapped	-	
USCH Information to add		0 <maxno of USCHs &gt;</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		-	
>Retention Priority	М		9.2.1.52A		_	
USCH Information to delete		0 <maxno of</maxno 			GLOBAL	reject

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		USCHs			
		>			
>USCH ID	М		9.2.3.27	1	
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		

Condition	Explanation
CoorDCH	This IE is present only this DCH is part of a set of coordinated DCHs (number of instances of DCH Specific Info is greater than
	1)

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
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

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### 9.3.3 PDU Definitions

```
/*** snip ***/
DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
          id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                                     CRITICALITY
                                                                                     notify
                                                                                                   TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
    { ID
    PRESENCE
                mandatory }
}
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID.
    tFCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding,
    punctureLimit
                                            PunctureLimit,
    tdd-TPC-DownlinkStepSize
                                            TDD-TPC-DownlinkStepSize,
                                            CCTrCH-TPCList-RL-SetupRqstTDD OPTIONAL,
    cCTrCH-TPCList
   dL-DPCH-Information
                                            DL-DPCH-Information-RL-SetupRqstTDD
                                                                                     OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD
                                ::= SEQUENCE {
    CCTrCH-ID
                                            CCTrCH-ID,
   iE-Extensions
                                            ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRgstTDD-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
 *** snip ***/
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                     CCTrCH-ID,
    tFCS
                                                     TFCS,
    tFCI-Coding
                                                     TFCI-Coding,
   punctureLimit
                                                     PunctureLimit,
    cCTrCH-TPCList
                                                     CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL,
    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 ::= {
    . . .
```

}

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CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEOUENCE { cCTrCH-ID CCTrCH-ID, ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs} } iE-Extensions OPTIONAL, . . . } snip \*\*\* DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS OPTIONAL, tFCI-Coding TFCI-Coding OPTIONAL, punctureLimit PunctureLimit OPTIONAL, cCTrCH-TPCList CCTrCH-TPCModifyList-RL-ReconfPrepTDD OPTIONAL, dl-DPCH-InformationAddList DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL, dl-DPCH-InformationModifyList DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL, dl-DPCH-InformationDeleteList DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL, ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (01..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, iE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . \*\* snip \*\*\*

	RAN WG3 Meeting #17 US, 20-24 Nov 2000DocumentR3-003275 e.g. for 3GPP use the format TP-99xx or for SMG, use the format TP-99xx						
	<b>CHANGE REQUEST</b> Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.						
	25.433 CR 308r2 Current Version: V 3.3.0						
GSM (AA.BB) or 3	G (AA.BBB) specification number 1						
For submission	al meeting # here for information non-strategic use only)						
Form: CR cover she	eet, version 2 for 3GPP and SMG The latest version of this form is available from: <u>ftp://ftp.3gpp.org/Information/CR-Form-v2.doc</u> v2.doc						
Proposed char (at least one should be							
<u>Source</u>	R-WG3 Date: 23 Nov 2000						
Subject:	Variability of SF in UL Physical Channel for TDD mode						
Work item:							
(only one category shall be marked	FCorrectionXRelease:Phase 2ACorresponds to a correction in an earlier releaseRelease 96Release 96BAddition of featureRelease 97Release 97CFunctional modification of featureRelease 98Release 98DEditorial modificationRelease 00X						
<u>Reason for</u> <u>change:</u>							
Clauses affecte	ed: 9.1.37.2; 9.1.40.2; 9.2.3.26B; 9.3.3; 9.3.4						
Other specs	Other 3G core specifications $X \rightarrow \text{List of CRs:} \begin{array}{c} 25.221\text{CR34}; 25.222\text{CR50}; \\ 25.331\text{CR618}; \\ 25.423\text{CR260r2} \end{array}$						
affected:	Other GSM core specifications $\rightarrow$ List of CRs:MS test specifications $\rightarrow$ List of CRs:BSS test specifications $\rightarrow$ List of CRs:O&M specifications $\rightarrow$ List of CRs:						
<u>Other</u> comments:	<ul> <li>Changes compared to revision 1 (in R3-003207):</li> <li>'UL PhysCH SF Variation' IE removed from RESOURCE STATUS INDICATION message and now included in RADIO LINK SETUP RESPONSE (TDD) and RADIO LINK ADDITION RESPONSE (TDD)</li> <li>'UL_SF_variation_allowed' changed into 'UL_SF_variation_supported'</li> <li>'UL_SF_variation_NOT_allowed' changed into 'UL_SF_variation_NOT_supported'</li> <li>Description of IE is referring to 'Radio Link' instead of 'Physical Channel'</li> <li>ASN.1 coding adopted according to changes from above</li> </ul>						



<----- double-click here for help and instructions on how to create a CR.

# 9.1.37 RADIO LINK SETUP RESPONSE

## 9.1.37.1 FDD message

/\*\*\* snip \*\*\*/

# 9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	_		
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	М		9.2.1.15		YES	ignore
RL Information Response	1	1		1	YES	ignore
>RL ID	М		9.2.1.53	1	-	-
>UL Interference per Time Slot		1 <maxnooful ts&gt;</maxnooful 		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	М		9.2.3.23			
>>UL Timeslot ISCP	Μ		9.2.3.26A			
>UL PhysCH SF Variation	M		<u>9.2.3.26B</u>		=	
>DCH Information Response		1 to <maxnoofd CH&gt;</maxnoofd 		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
>>DCH ID	Μ		9.2.1.20		_	
>>Binding ID	М		9.2.1.4		_	
>>Transport Layer Address	М		9.2.1.63		-	
>DSCH Information Response		0 <maxnoof DSCHs&gt;</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&gt;</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

# 9.1.40 RADIO LINK ADDITION RESPONSE

# 9.1.40.1 FDD message

/\*\*\* snip \*\*\*/

# 9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
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 &gt;</maxn 		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	М		9.2.3.23			
>>UL Timeslot ISCP	Μ		9.2.3.26A		-	
>UL PhysCH SF Variation	M	1	<u>9.2.3.26B</u>		=	
>Diversity Indication	М		9.2.1.26		-	
>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&gt;</ma 			_	
>>>DCH ID	М		9.2.1.20		-	
>>>Binding ID	М		9.2.1.4		-	
>>>Transport Layer Address	М		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	Μ		9.2.3.27		-	
>>Binding ID	Μ		9.2.1.4		-	
>>Transport Layer Address	Μ		9.2.1.63		-	
Criticality diagnostics	0	1	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

### 9.2.3.26 Transmission Diversity Applied

Defines if Transmission Diversity on DCHs to be applied in a cell (see[19]).

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

### 9.2.3.26A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the Node B, see ref. [5].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Timeslot ISCP			INTEGER ( 081)	According to mapping in [5].

# 9.2.3.26B UL PhysCH SF Variation

Indicates whether variation of SF in UL is supported by Radio Link or not.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
UL PhysCH SF Variation			ENUMERAT ED (SF Variatio n_supported, SF Variation NOT supp orted)	

#### PDU Definitions 9.3.3 \_ \_ -- PDU definitions for NBAP. \_\_\_ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN \_\_\_\_ -- IE parameter types from other modules. \_ \_ IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, APPreambleSignature, APSubChannelNumber, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, BlockSTTD-Indicator, 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, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-or-Global-CapacityCredit, DL-Power, DLPowerAveragingWindowSize, DL-ScramblingCode, DL-TimeslotISCP, DL-TPC-Pattern01Count, DPCH-ID, DSCH-ID, FDD-DL-ChannelisationCodeNumber, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FrameHandlingPriority, FrameOffset, IB-OC-ID, 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, MidambleShiftAndBurstType, MinimumDL-PowerCapability, 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, PICH-Power, 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, RetentionPriority, RL-Set-ID, RL-ID, RSSI-Value, 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-DPCHOffset, 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-PhysCH-SF-Variation, UL-ScramblingCode, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres, USCH-ID

FROM NBAP-IEs

(\*\*\* snip \*\*\*/

/\*\*\* snip \*\*\*/ RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-ID RL-ID, uL-InterferenceList-RL-SetupRspTDD UL-InterferenceList-RL-SetupRspTDD, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, dCH-InformationResponseList DCH-InformationResponseList-RL-SetupRspTDD, dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspTDD OPTIONAL, uSCH-InformationResponseList USCH-InformationResponseList-RL-SetupRspTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs } } OPTIONAL, . . . }

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RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {



/\*\*\* snip \*\*\*/

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RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE { rL-ID RL-ID, uL-InterferenceList-RL-AdditionRspTDD UL-InterferenceList-RL-AdditionRspTDD, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, 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-InfomationResponseList USCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, . . . }

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {



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### 9.3.4 Information Elements Definitions

\*\*\* snip \*\*\*/

```
___
   ΤT
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-PhysCH-SF-Variation ::= ENUMERATED {
   sf-variation-supported,
   sf-variation-not-supported
}
UL-ScramblingCode ::= SEQUENCE {
   uL-ScramblingCodeNumber
                                UL-ScramblingCodeNumber,
   uL-ScramblingCodeLength
                                UL-ScramblingCodeLength,
                                ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
}
```

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/\*\*\* snip \*\*\*/

3GPP TSG RAN WG3 Meeting #17 Chicago, IL, US, 20-24 Nov 2000					Docume	e.g. for	3GPP use the f	03064 ormat TP-99xxx format P-99-xxx
		CHANGE F	REQI	JEST		mbedded help i uctions on how		
		25.433	CR			rrent Versi		3.0
GSM (AA.BB) or 3G	(AA.BBB) specific	ation number $\uparrow$		↑ C	R number as allo	cated by MCC	support team	
For submission t		<mark>0                                    </mark>	oproval mation	X		strate non-strate	-	(for SMG use only)
Form: CR cover sheet,	version 2 for 3GPP	and SMG The latest version	on of this forn	n is available fro	om: <mark>ftp://ftp.3c</mark>	pp.org/Info	ormation/	<u>CR-Form-</u> v2.doc
Proposed chang (at least one should be m		(U)SIM	ME	(	UTRAN / Ra	idio X	Core Ne	twork
<u>Source</u>	R-WG3					Date:	14 Nov	2000
Subject:	Resource St	atus Indication corre	ections fo	r TDD				
Work item:								
Category:       F         A       A         (only one category       B         shall be marked       C         with an X)       D	Addition of	modification of fea		rlier relea		<u>Release:</u>	Phase 2 Release Release Release Release Release	96 97 98 99 <b>X</b>
<u>Reason for</u> change:	some IEs in This CR pro	RESOURCE ST poses to define a ces if not accepte cy in the specifica	ATUS IN Ilso thes <u>d:</u>	DICATIO	DN message	e are define	ed for FDI	
Clauses affected	l: 9.1.17	<mark>; 9.1.32; 9.2.1.9; 9</mark>	.2.1.20;	9.2.1.65;	<mark>; 9.2.2.3; 9.</mark> 2	2 <mark>.2.6; 9.2.2</mark>	<mark>.12; 9.2.2</mark>	.60
affected:	Other 3G con Other GSM of specificat MS test spec BSS test spec O&M specific	ions ifications cifications	-	$\begin{array}{l} \rightarrow \text{ List of} \\ \rightarrow \text{ List of} \end{array}$	CRs: CRs: CRs:			
<u>Other</u> comments:								
100								



<----- double-click here for help and instructions on how to create a CR.

# 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 Credit	М		9.2. <u>1.20B</u> <del>2</del> <del>.12</del>			
>UL Capacity Credit	0		9.2. <u>1.65A</u> 2 . <del>60</del>			
>Common Channels Capacity Consumption Law	Μ		9.2. <u>1.9A</u> 2. <del>3</del>			
>Dedicated Channels Capacity Consumption Law	Μ		9.2. <u>1.20A</u> 2 <del>.6</del>			
Cell Information		0 < maxCellin NodeB >			EACH	ignore
>C-ID	М		9.2.1.9		_	
>Configuration Generation ID	M		9.2.1.16			
>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		
>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	М		9.2.1.2		—	
>Secondary SCH Information		01			YES	ignore
>>Common Physical Channel ID	Μ		9.2.1.13		-	
>>Resource Operational State >>Availability Status	M		9.2.1.52		_	
>Primary CPICH	М	0.1	J.Z.I.Z			
Information		01			YES	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		-	
>Secondary CPICH Information		0 <maxsc PICHCell&gt;</maxsc 			EACH	ignore
>>Common Physical Channel ID	М		9.2.1.13		-	
>>Resource Operational State	М		9.2.1.52		-	
>>Availability Status >Primary CCPCH Information	M	01	9.2.1.2		 YES	ignore

>>Common Physical Channel ID	М		9.2.1.13	-	
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М	1	9.2.1.2		
>BCH Information		01	0.2.1.2	YES	ignore
>>Common Transport	М	01	9.2.1.13	1123	ignore
Channel ID					
>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
>Secondary CCPCH Information		0 <maxsc CPCHCell &gt;</maxsc 		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	_	
>PCH Information	1	01		EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14	-	-3
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	_	
>PICH Information		01		YES	ignore
>>Common Physical Channel ID	М		9.2.1.13	-	ignore
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	_	
>FACH Information		0 <maxfa< td=""><td>0.2.1.2</td><td>EACH</td><td>ignore</td></maxfa<>	0.2.1.2	EACH	ignore
		CHCell>		LAON	ignore
>>Common Transport Channel ID	М		9.2.1.14	-	
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
>PRACH Information		0 <maxpr ACHCell&gt;</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 <maxra CHCell&gt;</maxra 		EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14	-	
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М	1	9.2.1.2	_	
>AICH Information		0 <maxra CHCell&gt;</maxra 		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 PCHCell&gt;</maxpc 		EACH	ignore
>>Common Physical	M	F CI ICell>	9.2.1.13		
Channel ID			3.2.1.13	_	

>>Resource	М		9.2.1.52	_	
Operational State					
>>Availability Status	М		9.2.1.2	_	
>CPCH Information		0 <maxcp CHCell&gt;</maxcp 		EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14	_	
>>Resource Operational State	М		9.2.1.52	_	
>>Availability Status	М		9.2.1.2	_	
>AP-AICH Information		0 <maxcp CHCell&gt;</maxcp 		EACH	ignore
>>Common Physical Channel ID	М		9.2.1.14		
>>Resource Operational State	М		9.2.1.52		
>>Availability Status	М		9.2.1.2		
>CD/CA-ICH Information		0 <maxcp CHCell&gt;</maxcp 		EACH	ignore
>>Common Physical Channel ID	М		9.2.1.14		
>>Resource Operational State	М		9.2.1.52		
>>Availability Status	М		9.2.1.2		
>SCH Information		01		YES	ignore
>>Common Physical Channel ID	М		9.2.1.14	_	
>>Resource Operational State	М		9.2.1.52	-	
>>Availability Status	М		9.2.1.2	-	
Communication Control Port Information		0 <maxccpi nNodeB&gt;</maxccpi 		EACH	ignore
>Communication Control Port ID	М		9.2.1.15	_	
>Resource Operational State	М		9.2.1.52	-	
>Availability Status	М		9.2.1.2	_	
Local Cell Information		0 <maxlocal CellinNode B&gt;</maxlocal 		EACH	ignore
>Local Cell ID	М		9.2.1.38	Ι	
>DL or Global Capacity Credit	М		9.2. <u>1.20B</u> 2 <del>.12</del>		
>UL Capacity Credit	0		9.2. <u>1.65A</u> 2 <del>.60</del>		
>Common Channels Capacity Consumption Law	М		9.2. <u>1.9A<del>2.</del> 3</u>		
>Dedicated Channels Capacity Consumption Law	М		9.2. <u>1.20A</u> 2 <del>.6</del>		
>Maximum DL Power Capability	0		9.2.1.39	_	
>Minimum Spreading Factor	0		9.2.1.47		
>Minimum DL Power Capability	0		9.2.1.46A	_	
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

# 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	<u> </u>
Indication Type	М		9.2.1.36		YES	ignore
CHOICE Indication Type					YES	ignore
>"No Failure"					YES	ignore
>>Node B Information		1			_	<u> </u>
>>>DL or Global	М		9.2. <u>1.20B</u> 2			
Capacity Credit			. <u>12</u>			
>>>UL Capacity Credit	0		9.2. <u>1.65A</u> 2			
>>>0L Capacity Credit	Ŭ		.60			
>>>Common Channels Capacity Consumption Law	М		9.2. <u>1.9A</u> 2. 3			
>>>Dedicated	М		9.2. <u>1.20A</u> 2			
Channels Capacity			<del>.6</del>			
Consumption Law						
>>Local Cell		1 <max< td=""><td></td><td></td><td>EACH</td><td>ignore</td></max<>			EACH	ignore
Information		LocalCellin NodeB >				.9
>>>Local Cell ID	М		9.2.1.58		_	
>>>Add/Delete	М		9.2.1.1		_	
Indicator						
>>>DL or Global	C-add		9.2. <u>1.20B</u> 2			
Capacity Credit			<del>.12</del>			
>>>UL Capacity Credit	0		9.2. <u>1.65A</u> 2 . <del>60</del>			
>>>Common Channels Capacity Consumption Law	C-add		9.2. <u>1.9A</u> 2. 3			
>>>Dedicated	C-add		9.2. <u>1.20A</u> 2			
Channels Capacity	0 uuu		.6			
Consumption Law						
>>>Maximum DL	C-add		9.2.1.39		_	
Power Capability	0 444		0.2.1.00			
>>>Minimum	C-add		9.2.1.47			
	0 000		5.2.1.47			
Spreading Factor >>>Minimum DL Power	M		9.2.1.46A		_	
Sepability			0.2.1.707			
>"Service Impacting"					YES	ignore
		01			120	ignore
>>Node B Information	0	0	9.2. <u>1.20B<del>2</del></u>			
>>>DL or Global Capacity Credit	-		<del>.12</del>			
>>>UL Capacity Credit	0		9.2. <u>1.65A</u> 2 . <del>60</del>			
>>Local Cell Information		0 <maxlocal CellinNode B&gt;</maxlocal 			EACH	ignore
>>>Local Cell ID	М	T	9.2.1.38		_	
>>>DL or Global	0		9.2. <u>1.20B</u> 2			
Capacity Credit			<del>.12</del>			
>>>UL Capacity Credit	0		9.2. <u>1.65A</u> 2 . <del>60</del>			
>>>Maximum DL	0	ł	9.2.1.39		_	

Power Capability					
>>>Minimum	0		9.2.1.47		
Spreading Factor	-				
>>>Minimum DL Power	0		9.2.1.46A		
Capability	-				
>>Communication		0		EACH	ignore
Control Port		<maxccpi< td=""><td></td><td>2,1011</td><td>ignore</td></maxccpi<>		2,1011	ignore
Information		nNodeB>			
mormation					
>>>Communication	М		9.2.1.15	-	
Control Port ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability Status	Μ		9.2.1.2	-	
>>Cell Information		0		EACH	ignore
		<maxcellin< td=""><td></td><td></td><td></td></maxcellin<>			
	М	NodeB>	9.2.1.9		
>>>C-ID	0		9.2.1.9		
>>>Resource			0.2.1.02		
Operational State	0		9.2.1.2		
>>>Availability Status	0	01	J.Z.I.Z	 YES	ianara
>>>Primary SCH		01		1ES	ignore
Information	N.4				
>>>>Common	М		9.2.1.13	-	
Physical Channel ID	N.4		0.24.52		
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>>Availability	М		9.2.1.2	-	
Status					
>>>Secondary SCH		01		YES	ignore
Information			0.0.1.10		
>>>Common	М		9.2.1.13	-	
Physical Channel ID			0.0.4.50		
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>>Availability	М		9.2.1.2	-	
Status					
>>>Primary CPICH		01		YES	ignore
Information		ļ			
>>>Common	М		9.2.1.13	-	
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status			ļ		
>>>Secondary CPICH		0 <maxsc< td=""><td></td><td>EACH</td><td>ignore</td></maxsc<>		EACH	ignore
Information		PICHCell>			
>>>>Common	М		9.2.1.13	-	
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>>Availability	М		9.2.1.2	-	
Status					
>>>Primary CCPCH		01		YES	ignore
Information					
>>>>Common	М		9.2.1.13	-	
Physical Channel ID					
>>>Resource	М	1	9.2.1.52	-	
Operational State					

			1		
>>>Availability	М		9.2.1.2	-	
Status		0.1		VES	ignoro
>>>BCH Information		0 1		YES	ignore
>>>Common	М		9.2.1.14	-	
Transport Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	Μ		9.2.1.2	-	
Status					
>>>Secondary		0 <maxsc< td=""><td></td><td>EACH</td><td>ignore</td></maxsc<>		EACH	ignore
CCPCH Information		CPCHCell			
>>>Common	М		9.2.1.13	_	
Physical Channel ID					
>>>Resource	М		9.2.1.52	_	
Operational State			0.2.1.02		
	М		9.2.1.2		
>>>>Availability	IVI		9.2.1.2	_	
Status		0.4		FAOL	
>>>PCH Information		01		EACH	ignore
>>>Common	М		9.2.1.14	-	
Transport Channel ID					
>>>Resource	Μ		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	_	
Status					
>>>PICH Information		01		YES	ignore
>>>Common	М		9.2.1.13		.g
			0.2.1.10		
Physical Channel ID			0.04.50		
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status					
>>>FACH Information		0 <maxfac HCell&gt;</maxfac 		EACH	ignore
>>>Common	Μ		9.2.1.14	_	
Transport Channel ID					
>>>Resource	М		9.2.1.52	_	
Operational State			0.2.1.02		
	М		9.2.1.2		
>>>>Availability			3.2.1.2		
Status		0 <maxpr< td=""><td></td><td>FACU</td><td>ignore</td></maxpr<>		FACU	ignore
>>>PRACH		ACHCell>		EACH	ignore
Information					
>>>Common	М		9.2.1.13	-	
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status					
>>>RACH		0		EACH	ignore
Information		<maxpra CHCell&gt;</maxpra 			.9
>>>Common	М		9.2.1.14	-	
Transport Channel ID					
>>>Resource	М		9.2.1.52		
Operational State					
>>>Availability	М		9.2.1.2		
Status					
>>>AICH Information		0		EACH	ignore
>>>AICH Information		0	I I	LAUIT	Ignore

		<maxpra< th=""><th></th><th></th><th></th></maxpra<>			
>>>Common	M	CHCell>	9.2.1.13		
Physical Channel ID			0.2.1110		
>>>Resource	М		9.2.1.52	_	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status					
>>>PCPCH		0 <maxpc< td=""><td></td><td>EACH</td><td>ignore</td></maxpc<>		EACH	ignore
Information		PCHCell>			
>>>Common	М		9.2.1.13	-	
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status		0		FAOL	
>>>CPCH Information		0 <maxcpc HCell&gt;</maxcpc 		EACH	ignore
>>>Common	М		9.2.1.14	_	
Transport Channel ID					
>>>Resource	М		9.2.1.52	_	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status					
>>>AP-AICH		0		EACH	ignore
Information		<maxcpc HCell&gt;</maxcpc 			
>>>>Common	М		9.2.1.13	-	
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State			0.0.1.0		
>>>Availability	М		9.2.1.2	-	
Status		0		EACH	
>>>CD/CA-ICH Information		o <maxcpc HCell&gt;</maxcpc 		EACH	ignore
>>>Common	Μ		9.2.1.13		
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	_	
Status					
>>>SCH Information		01		YES	ignore
>>>Common	М		9.2.1.14	-	
Physical Channel ID					
>>>Resource	М		9.2.1.52	-	
Operational State					
>>>Availability	М		9.2.1.2	-	
Status	0		9.2.1.6	YES	ignore
Cause	0		3.2.1.0	TEO	ignore

Condition	Explanation
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.

### 9.2.1.8 CFN Offset

Void

#### 9.2.1.9 C-ID

The C-ID (Cell identifier) is the identifier of a cell in one RNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
C-ID			INTEGER (065535)	

### 9.2.1.9A Common Channels Capacity Consumption Law

The capacity consumption law indicates 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	<u>Range</u>	IE type and reference	Semantics description
Common Channels Capacity Consumption Law				
≥SF allocation law		<u><maxnumberofs< u=""> <u>F&gt;</u></maxnumberofs<></u>		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		<u>INTEGER</u> (065535)	
>>UL cost	M		<u>INTEGER</u> (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,)	

#### 9.2.1.19 DCH Combination Indicator

Void

#### 9.2.1.20 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DCH ID			INTEGER	
			(0255)	

#### 9.2.1.20A Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates 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	<u>Range</u>	IE type and reference	Semantics description
Dedicated Channels Capacity Consumption Law				
<u>&gt;SF allocation law</u>		<u><maxnumberofs< u=""> <u>F&gt;</u></maxnumberofs<></u>		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		<u>INTEGER</u> (065535)	
>>UL cost	M		<u>INTEGER</u> (065535)	

### 9.2.1.20B 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			<u>INTEGER</u> (065535)	

## 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

#### 9.2.1.64 TSTD Indicator

Indicates if TSTD shall be active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
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 ]

#### 9.2.1.65A 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)	

#### 9.2.1.66 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 (Normal, Silent,)	

#### 9.2.1.67 UL interference level

Void.

#### 9.2.2.2 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip offset is used as offset 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 ED (Offset1, Offset2,)	According to [10] chapter 7.1: Offset1 = $slot(j+1)mod15$ Offset2 = $slot(j+2)mod15$

### 9.2.2.3 Common Channels Capacity Consumption Law

Void

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&gt;</maxnumberofs 		For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 8, the third to SF = 16 and so on.
<del>&gt;&gt;DL cost</del>	M		<del>INTEGER</del> (065535)	
>>UL cost	M		<del>INTEGER</del> <del>(065535)</del>	

### 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			ENUMERAT	On = deactivate.
Deactivation flag			ED(On,	
			Off)	

#### 9.2.2.4 Compressed Mode Method

Void.

### 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, 480, 960, 1920, 2880, 3840, 4800, 5760,)	Channel Symbol Rate (ksps)

#### 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

Void.

#### 9.2.2.6 Dedicated Channels Capacity Consumption Law

Void

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&gt;</maxnumberofs 		For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 8, the third to SF = 16 and so on.
>>DL cost	м		<del>INTEGER</del> <del>(065535)</del>	
>>UL cost	м		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

Void.

### 9.2.2.12 DL or Global Capacity Credit

Void

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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			<del>INTEGER</del> (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

### 9.2.2.59 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	М		INTEGER (0 2 <sup>24</sup> -1)	
>UL scrambling code length	M		ENUMERAT ED(Short, Long)	

# 9.2.2.60 UL Capacity Credit

Void

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			<del>INTEGER</del> <del>(065535)</del>	

# 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

Void.

Document	R3-003271
	3GPP use the format TP-99xxx r SMG, use the format P-99-xxx

•	
	<b>CHANGE REQUEST</b> Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
	25.433 CR 312 r2 Current Version: V 3.3.0
GSM (AA.BB) or 3	3G (AA.BBB) specification number ↑
For submissior	meeting # here ↑ For information non-strategic use only)
F Proposed chan (at least one should be	
Source:	R-WG3 23 Nov 2000
Subject:	Extensibility correction for FACH Information Response
Work item:	
(only one category shall be marked	F       Correction       X       Release:       Phase 2       Release 96         A       Corresponds to a correction in an earlier release       Release 96       Release 96       Release 97         B       Addition of feature       Release 97       Release 97       Release 98         C       Functional modification of feature       Release 98       Release 98         D       Editorial modification       X       Release 99       X         In the current NBAP specification the IE's "Transport Layer Address" and "Binding ID"       In the FACH Information group of the "COMMON TRANSPORT CHANNEL SETUP
	RESPONSE" message are mandatory. Also the IE's "Transport Layer Address" and "Binding ID" of the PCH, RACH and CPCH information groups are mandatory. For extensibility reasons this IE's should be made optional. This CR changes the IE's "Transport Layer Address" and "Binding ID" in the FACH, PCH, RACH and CPCH Information group of the "COMMON TRANSPORT CHANNEL SETUP RESPONSE" message from mandatory to optional. Consequences if not approved: If this CR is not approved the future option of "co-ordinated FACH", sharing the same transport bearer on lub, will be excluded. Also the future option of co-ordinated - PCH, RACH, CPCH will be excluded.
Clauses affecte	ed: 8.2.1.2, 9.1.4,
<u>Other specs</u> affected:	Other 3G core specifications $\rightarrow$ List of CRs:Other GSM core specifications $\rightarrow$ List of CRs:MS test specifications $\rightarrow$ List of CRs:BSS test specifications $\rightarrow$ List of CRs:O&M specifications $\rightarrow$ List of CRs:
<u>Other</u> comments:	



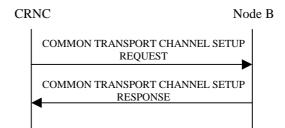
<----- double-click here for help and instructions on how to create a CR.

# 8.2 NBAP Common Procedures

# 8.2.1 Common Transport Channel Setup

•••

## 8.2.1.2 Successful Operation



### Figure <u>14</u>: 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 REQUET message contains a PRACH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. [FDD-PCPCHes]:

3G 25.433 Version 3.3.0 (2000-09)

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *CD Signatures* IE, the Node B may use only the given CD signatures on CD/CA-ICH.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes Channel Request Parameters IE group, the Node B shall use the parameters to distinguish the PCPCHs.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in Channel Request Parameters IE group, the Node B shall use AP sub channel number to distinguish the PCPCHs.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in SF Request Parameters IE group, the Node B shall use AP sub channel number to distinguish the requested Spreading Factors.

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 *Common Transport Channel ID* IE, the *Binding ID* IE and the *Transport Layer Address* IE transport layer information for the configured common transport channels.

# 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
Message Discriminator	M		9.2.1.45		-	<b>D</b> : (
Message Type Transaction ID	M		9.2.1.46		YES	Reject
FACH Parameters	М	0 <ma< td=""><td>9.2.1.62</td><td>The FACH</td><td> GLOBAL</td><td>Ignore</td></ma<>	9.2.1.62	The FACH	 GLOBAL	Ignore
		xnoofF ACHs>		Parameters may be combined with PCH Parameters	GLUDAL	Ignore
>Common Transport Channel ID	М		9.2.1.14	T didificiers	_	
>Binding ID	MO		9.2.1.4		_	
> <mark>Transport <del>layer</del> Layer</mark> addressAddress	₩ <u>0</u>		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	₩ <u>O</u>		9.2.1.4		—	
>Transport <del>layer <u>Layer</u> address<u>Address</u></del>	₩ <u>0</u>		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	M <u>O</u>		9.2.1.4		_	
>Transport layer-Layer addressAddress	M <u>O</u>		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		9.2.1.14		-	
>Binding ID	<u>MO</u>	ļ	9.2.1.4		_	
>Transport <del>layer <u>Layer</u> address<u>Address</u></del>	<u>₩0</u>		9.2.1.63		-	
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].

# 9.3.3 PDU Definitions

```
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
CommonTransportChannelSetupResponse ::= SEQUENCE {
                       ProtocolIE-Container
                                                  {{CommonTransportChannelSetupResponse-IEs}},
   protocolIEs
   protocolExtensions
                           ProtocolExtensionContainer {{CommonTransportChannelSetupResponse-
Extensions}} OPTIONAL,
    . . .
}
CommonTransportChannelSetupResponse-IES NBAP-PROTOCOL-IES ::= {
    {        ID id-FACH-ParametersList-CTCH-SetupRsp        CRITICALITY ignore
    }

                                                                          TYPE
                                                                                FACH-
ParametersList-CTCH-SetupRsp
                                 PRESENCE optional
                                                          } |
   { ID id-PCH-Parameters-CTCH-SetupRsp
                                                CRITICALITY ignore
                                                                          TYPE PCH-Parameters-
                          PRESENCE optional
CTCH-SetupRsp
                                                   } |
                                                  CRITICALITY ignore
         id-RACH-Parameters-CTCH-SetupRsp
                                                                          TYPE RACH-
    { ID
                                               optional
Parameters-CTCH-SetupRsp
                                  PRESENCE
                                                           }|
    { ID id-CPCH-Parameters-CTCH-SetupRsp
                                                CRITICALITY ignore
                                                                                  TYPE CPCH-
Parameters-CTCH-SetupRsp
                              PRESENCE
                                               optional }|
                                                                                  TYPE
    { ID id-CriticalityDiagnostics
                                                           CRITICALITY
                                                                           ignore
    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 OPTIONAL,
                                       TransportLayerAddress OPTIONAL,
   transportLayerAddress
                                       ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-
   iE-Extensions
                    OPTIONAL,
SetupRsp-ExtIEs } }
}
FACH-ParametersItem-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
PCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID
                                       CommonTransportChannelID,
    bindingID
                                       BindingID OPTIONAL,
                                       TransportLayerAddress <u>OPTIONAL</u>,
ProtocolExtensionContainer { { PCH-Parameters-CTCH-
    transportLayerAddress
   iE-Extensions
                      OPTIONAL,
SetupRsp-ExtIEs} }
    . . .
}
PCH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RACH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
   commonTransportChannelID
                                      CommonTransportChannelID,
   bindingID
                                       BindingID OPTIONAL,
                                      TransportLayerAddress <u>OPTIONAL</u>,
ProtocolExtensionContainer { RACH-Parameters-CTCH-
   transportLaverAddress
   iE-Extensions
SetupRsp-ExtIEs } }
                      OPTIONAL,
    . . .
}
RACH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
CPCH-Parameters-CTCH-SetupRsp ::= SEQUENCE {
    commonTransportChannelID
                                      CommonTransportChannelID,
    bindingID
                                       BindingID OPTIONAL,
    transportLayerAddress
                                       TransportLayerAddress OPTIONAL,
```

```
iE-Extensions ProtocolExtensionContainer { { CPCH-Parameters-CTCH-
SetupRsp-ExtIEs } OPTIONAL,
... }
CPCH-Parameters-CTCH-SetupRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ...
```

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}

TSG-RAN Working Group 3 Meeting #17 Chicago, US,  $20^{th} - 24^{th}$  November 2000

Document	R3-003095
	e.g. for 3GPP use the format TP-99x

.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

			CHANGE	REQ	UEST		e embedded help file a nstructions on how to fil	
			25.433	CR	313		Current Versi	on: 3.3.0
GSM (AA.E	3B) or	3G (AA.BBB) speci	ication number $\uparrow$		↑ C	R number as a	allocated by MCC supp	ort team
For submissi		neeting # here $\uparrow$	for info	approval ormation	X		Strate non-strate	gic use only)
			Form: CR cover sheet, version 2	-	MG The latest	version of this for	m is available from: ftp://ftp.3	gpp.org/Information/CR-Form-v2.doc
Proposed char (at least one should be i			(U)SIM	ME		UTRAN	/Radio X	Core Network
Source:		R-WG3					Date:	November 2000
Subject:		Refinement	or extension tools	in ASN.1	(lub/lur ex	tensibility:	issue 2.1)	
Work item:								
Category: (only one category shall be marked with an X)	F A B C D	Addition of fe	nodification of featu		release	X	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 <b>X</b> Release 00
<u>Reason for</u> <u>change:</u>							is notation () to The purpose of not applied to the	
Clauses affecte	ed:	9.3.4						
Other specs affected:	C N E		ifications		$\begin{array}{l} \rightarrow \mbox{ List o} \\ \rightarrow \mbox{ List o} \end{array}$	f CRs: f CRs: f CRs:		
<u>Other</u>								

### comments:



<----- double-click here for help and instructions on how to create a CR.

# 9.3.4 Information Elements Definitions

-- Information Element Definitions \_ \_ NBAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN - Partly omitted -CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF SEQUENCE { dl-Cost INTEGER (0..65535), ul-Cost INTEGER (0..65535), ProtocolExtensionContainer { { CommonChannelsCapacityConsumptionLaw-ExtIEs } } iE-Extensions OPTIONAL, CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { - Partly omitted -DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF SEQUENCE { INTEGER (0..65535), dl-Cost ul-Cost INTEGER (0..65535), iE-Extensions ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-ExtIEs } DedicatedChannelsCapacityConsumptionLaw-Extles NBAP-PROTOCOL-EXTENSION ::= {

OPTIONAL,

-- Partly omitted --

```
MidambleShiftAndBurstType ::=
                                       CHOICE {
    type1
                                            CHOICE ·
         defaultMidamble
                                                NULL,
         commonMidamble
                                                NULL,
         ueSpecificMidamble
                                                MidambleShiftLong,
         . . .
    },
    type2
                                            CHOICE {
         defaultMidamble
                                                NULL,
                                                NULL,
         commonMidamble
         ueSpecificMidamble
                                                MidambleShiftShort,
         <u>...</u>
    },
                                            CHOICE {
    type3
         defaultMidamble
                                                NULL,
         ueSpecificMidamble
                                                MidambleShiftLong,
         . . .
    },
    . . .
 - Partly omitted -
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,
         . . .
    },
                                            ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs} }
                                                                                                            OPTIONAL,
    iE-Extensions
    . . .
PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
 - Partly omitted --
ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    msec
                          ReportPeriodicity-Scaledmsec,
                          ReportPeriodicity-Scaledmin,
    min
```

Partly omitted
TransportFormatCombination-Beta ::= CHOICE {     signalledGainFactors SEQUENCE {         betaC BetaCD,         betaD BetaCD,         refTFCNumber RefTFCNumber OPTIONAL,         iE-Extensions ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
<pre> }, computedGainFactors RefTFCNumber, }</pre>
SignalledGainFactors-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
partly omitted
TFCS ::= SEQUENCE {     tFCSvalues CHOICE {         no-Split-in-TFCI TFCS-TFCSList,         split-in-TFCI SEQUENCE {             transportFormatCombination-DCH TFCS-DCHList,             signallingMethod CHOICE {                tFCI-Range TFCS-MapingOnDSCHList,                  explicit TFCS-DSCHList,
} iE-Extensions ProtocolExtensionContainer { { Split-in-TFCI-ExtIEs } } OPTIONAL,
<pre> }</pre>
Split-in-TFCI-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
1
TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  }

	CHANGE REQUEST	CR-Form-v3
ж	25.433 CR CR-314 <sup># rev</sup> R1 <sup>#</sup>	Current version: <b>3.3.0</b> <sup>#</sup>
For <u>HELP</u> of	on using this form, see bottom of this page or look at the	e pop-up text over the X symbols.
Proposed chan	ge affects: ೫ (U)SIM ME/UE Radio Ac	cess Network X Core Network
Title:	Correction on CPCH	
Source:	<mark>೫ R-WG3</mark>	
Work item code	e: #	<b>Date:</b>
Category:	ж <mark>F</mark>	Release: ೫ <mark>R99</mark>
	Use <u>one</u> of the following categories: <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) 9) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
Reason for cha	nge: # maxNrOfCPCHs and maxCPCHCell have the number of CPCHes that can be defined in a should be aligned.	
Summary of ch	ange: # MaxCPCHCell has the same value as maxN	rOfCPCHs
Consequences not approved:	if # The values which are defined exactly same v ambiguity.	will have different value and it gives
Clauses affecte	ed: ¥ 9.3.6	
Other specs affected:	#       Other core specifications       #         Test specifications       0&M Specifications	
Other commen	ts: ¥	

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G\_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 9.3.6 Constant Definitions

```
__ *************
               ****
-- Constant definitions
NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
-- Elementary Procedures
_ _
id-audit
                                             INTEGER ::= 0
id-auditRequired
                                             INTEGER ::= 1
                                             INTEGER ::= 2
id-blockResource
id-cellDeletion
                                             INTEGER ::= 3
id-cellReconfiguration
                                             INTEGER ::= 4
id-cellSetup
                                             INTEGER ::= 5
id-commonMeasurementFailure
                                             INTEGER ::= 6
id-commonMeasurementInitiation
                                             INTEGER ::= 7
id-commonMeasurementReport
                                             INTEGER ::= 8
                                             INTEGER ::= 9
id-commonMeasurementTermination
id-commonTransportChannelDelete
                                             INTEGER ::= 10
id-commonTransportChannelReconfigure
                                             INTEGER ::= 11
id-commonTransportChannelSetup
                                             INTEGER ::= 12
id-compressedModeCommand
                                             INTEGER ::= 14
{\it id-dedicated} {\tt Measurement} {\tt Failure}
                                             INTEGER ::= 16
id-dedicatedMeasurementInitiation
                                             INTEGER ::= 17
id-dedicatedMeasurementReport
                                             INTEGER ::= 18
id-dedicatedMeasurementTermination
                                             INTEGER ::= 19
id-downlinkPowerControl
                                             INTEGER ::= 20
id-errorIndicationForDedicated
                                             INTEGER ::= 21
                                             INTEGER ::= 37
id-physicalSharedChannelReconfiguration
                                             INTEGER ::= 22
id-privateMessageForDedicated
                                             INTEGER ::= 23
id-radioLinkAddition
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
{\tt id-synchronisedRadioLinkReconfigurationPreparation}
                                             INTEGER ::= 31
id-systemInformationUpdate
                                             INTEGER ::= 32
id-unblockResource
                                             INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration
                                             INTEGER ::= 34
id-errorIndicationForCommon
                                             INTEGER ::= 35
id-privateMessageForCommon
                                             INTEGER ::= 36
id-reset
                                             INTEGER ::= 37
_ _
-- Extension constants
_ _
INTEGER ::= 65535
maxPrivateIEs
maxProtocolExtensions
                         INTEGER ::= 65535
maxProtocolIEs
                         INTEGER ::= 65535
_ _
-- Lists
maxNrOfCodes
                      INTEGER ::= 10
```

maxNrOfDLTSs	INTEGER ::= 15
maxNrOfDLCodes	INTEGER ::= 8
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfCPCHs	INTEGER ::= 4
maxNrOfPCPCHs	INTEGER ::= 64
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDSCHs	INTEGER ::= 32
maxNrOfFACHs	INTEGER ::= 8
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfPDSCHs	INTEGER ::= 256
maxNrOfPUSCHs	INTEGER ::= 256
maxNrOfPDSCHSets	INTEGER ::= 256
maxNrOfPUSCHSets	INTEGER ::= 256
maxNrOfULTSs	INTEGER ::= 15
maxNrOfUSCHs	INTEGER ::= 32
maxAPSigNum	INTEGER ::= 16
maxNrOfSlotFormatsPRACH	INTEGER ::= 8
maxCellinNodeB	INTEGER ::= 256
maxCCPinNodeB	INTEGER ::= 256
maxCPCHCell	INTEGER ::= <u>maxNrOfCPCHs</u> 64
maxCTFC	INTEGER ::= 16777215
maxLocalCellinNodeB	INTEGER ::= maxCellinNodeB
maxNoofLen	INTEGER ::= 7
maxRACHCell	INTEGER ::= maxPRACHCell
maxPRACHCell	INTEGER ::= 16
maxPCPCHCell	INTEGER ::= 64
maxSCCPCHCell	INTEGER ::= 32
maxSCPICHCell	INTEGER ::= 32
maxTTI-count	INTEGER ::= 4
maxIBSEG	INTEGER ::= 16
maxIB	INTEGER ::= 64
maxFACHCell	INTEGER ::= 256 maxNrOfFACHs * maxSCCPCHCell
maxRateMatching	INTEGER ::= 256
maxCodeNrComp-1	INTEGER ::= 256
maxNrOfCodeGroups	INTEGER ::= 256
maxNrOfTFCIGroups	INTEGER ::= 256
maxNrOfTFCI1Combs	INTEGER ::= 512
maxNrOfTFCI2Combs	INTEGER ::= 1024
maxNrOfTFCI2Combs-1	INTEGER ::= 1023
maxNrOfSF	INTEGER ::= 8
maxTGPS	INTEGER ::= 6
maxCommunicationContext	INTEGER ::= 1048575

e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

		CHANGE F	REQI	JEST			ile at the bottom of ti to fill in this form cor	
		25.433	CR	316r	1	Current Versio	on: <mark>3.3.0</mark>	
GSM (AA.BB) or 3G	(AA.BBB) specific	ation number ↑		↑ CF	R number as	allocated by MCC s	support team	
For submission	meeting # here ↑	) for ap for infor rersion 2 for 3GPP and SMG		X	form is a vailab	strateg non-strateg		nly)
Proposed change (at least one should be n	je affects:	(U)SIM	ME		JTRAN /		Core Network	
<u>Source:</u>	R-WG3					Date:	November 2	000
Subject:	Minor chan	ges to NBAP						
Work item:								
Category:FA(only one categoryshall be markedCwith an X)D	Addition of Functional	modification of fea		rlier relea	se	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	x
<u>Reason for</u> <u>change:</u>	semantics i indentation If the CR is	rrects a wrong ref n Audit Response not accepted thes s affected are add	, tabulai se mista	r format, f	or clarific	ation, and cor	rects a wrong	
Clauses affected	d: 8.3.2,	9.1.3, 9.1.17						
affected:	Other 3G cor Other GSM c specificat MS test spec BSS test spe O&M specific	ions ifications cifications	-		CRs: CRs: CRs:			
Other comments:								

<----- double-click here for help and instructions on how to create a CR.

# 8.3.2 Synchronised Radio Link Reconfiguration Preparation

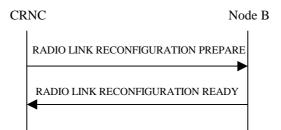
### 8.3.2.1 General

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.

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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 any *DCHs to Modify* IEs then the Node B shall treat them each as follows:

- If the *DCHs to Modify* IE includes the *Retention Priority* IE, the Node B should use this information to prioritise the retention of the resources used by the DCHes in error situation.
- If the *DCHs to Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes 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 *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of coordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH Id* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH Id* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs then the Node B shall treat them each as follows:

- The Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration.
- If the *DCHs to Add* IE 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.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16]].
- For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16]].
- The Node B 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.
- [TDD The Node B shall apply the *CCTrCH Id* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH Id* IE (for the UL) in the Uplink of this DCH in the new configuration.]

### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Delete* IEs, the Node B shall not include the referenced DCHs in the new configuration.

If all of 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 an *UL DPCH Information* IE then the Node B shall apply the parameters to the new configuration as follows: ]

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD If the *UL DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuratio
- [FDD The Node B shall use the *TFCS* IE for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPCCH Slot Format* IE, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Diversity Mode* IE, the Node B shall apply diversity according to the given value.]
- [FDD If the *UL DPCH Information* IE includes an *SSDT Cell Identity Length* IE and/or an *S-Field Length* IE, the Node B shall apply the values in the new configuration.]

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

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCCH Slot Format* IE, group the Node B shall set the new Downlink DPCCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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.]

[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, and the Transmission Gap Pattern Sequence Codes to be used in the new Compressed Mode Configuration.]

### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL CCTrCH to Modify or DL CCTrCH to Modify IEs, then the Node B shall treat them each as follows:]

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- [TDD If the IE 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 IE includes any *UL DPCH to add* or *DL DPCH to add* IEs, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH to delete* or *DL DPCH to delete* IEs, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH to modify or DL DPCH to modify IEs, and includes any of Repetition Period IE, Repetition Length IE, or TDD DPCH Offset IE or the message includes UL/DL Timeslot Information and includes any of Midamble shiftand Burst Type IE, Time Slot IE, or TFCI presence IE or the message includes UL/DL Code information the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]

### [TDD – UL/DL CCTrCH Addition]

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

[TDD - If the *UL/DL CCTrCH to Add* IE includes any *UL/DL DPCH Information* IE, the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

### [TDD – 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.]

#### **DSCH Addition/Modification/Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to modify*, *DSCH to add* or *DSCH to delete IEs*, 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.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCl2 Bearer Information* IE then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.

[FDD - If the *TFCI S ignaling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information* IE is not included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm in the new configuration.]

[FDD - If the *TFCI S ignaling Mode* IE within the RADIO LINK RECONFUGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer in the new configuration (see ref.[24]).]

### [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.

#### **RL Information:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE containing a *DL Scrambling Code* IE, the Node B shall apply the scrambling code in the new configuration.]
- [FDD If the *RL Information* IE includes the *UL Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *RL Information* IE includes the *DL Code Information* IE containing a *DL Channelisation Code Number* IE, the Node B shall apply the channelisation code in the new configuration.]
- [FDD- If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration.

#### General

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 the RADIO LINK RECONFIGURATION READY message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of any Transport Channels being added or modified. In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *DCH Information Response* IE 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.

# 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

# 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE common physical channel to be configured					YES	ignore
Secondary CCPCH					YES	roigot
>Secondary CCPCH		1			162	reject
	N.4	1	0.04.40			
>>Common Physical Channel ID	М		9.2.1.13		_	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to [7]: <sub>S-</sub> CCPCH,k	_	
>>DL Scrambling Code	М		9.2.2.13	COPOLI,K	_	
>>FDD DL Channelisation Code Number	M		9.2.2.14		_	
>>TFCS	М		9.2.1.54	For the DL.		
>>Secondary CCPCH Slot	M		9.2.2.43	TOT THE DE.		
Format						
>>TFCI Presence	C – SlotFormat		9.2.1.57	Refer to TS [7]	-	
>>Multiplexing Position	М		9.2.2.23		-	
>>Power Offset Information		1			_	
>>>PO1	Μ		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>>PO3	M		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>>STTD Indicator	М		9.2.2.47		-	
>>FACH Parameters	C- choiceCh	0 <ma xnoofF ACHs&gt;</ma 			GLOBAL	reject
>>>Common transport channel ID	М		9.2.1.14		_	
>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		-	
>>>Max FACH Power	М		DL Power 9.2.1.21	Maximum allowed power on the FACH.	_	
>>PCH Parameters	C- choiceCh	01			YES	reject
>>>Common Transport Channel ID	M		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		_	

>>>PCH Power	Μ		DL Power		_	
			9.2.1.21			
>>>PICH Parameters		1			—	
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>DL Scrambling Code	М		9.2.2.13		_	
>>>FDD DL	М		9.2.2.14		_	
Channelisation Code						
Number						
>>>>PICH Power	Μ		9.2.1.49A		_	
>>>PICH Mode	М		9.2.2.26	Number of PI per frame	_	
>>>STTD Indicator	М		92.2.48		_	
>PRACH					YES	reject
>PRACH		1				
>Common Physical Channel ID	М		9.2.1.13		_	
>>Scrambling Code Number	М		9.2.2.42		_	
>>TFCS	М		9.2.1.58	For the UL.	_	
>>Preamble Signatures	М		9.2.2.31		_	
>>Allowed Slot Format		1 <ma< td=""><td></td><td></td><td>_</td><td></td></ma<>			_	
Information		xnoofSl				
		otForm				
		atsPRA				
		CH>	0.0.0.7			
>>>RACH Slot Format	M		9.2.2.37		_	
>>RACH Sub Channel	М		9.2.2.38		_	
Numbers >>Puncture Limit	М		9.2.1.50	For the UL		
>>Preamble threshold	M		9.2.1.30	FOLUTEOL	_	
>>RACH Parameters		1	9.2.2.32		YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	16,601
>>>Transport Format Set	М		9.2.1.59	For the UL.	_	
>>>AICH Parameters		1	0.2.1100		_	
>>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>DL Scrambling Code	М		9.2.2.13		_	
>>>>AICH Transmission Timing	М		9.2.2.1		_	
>>>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>>AICH Power	М		9.2. <del>1.49A<u>.</u> 2.D</del>		_	
>>>>STTD Indicator	М		9.2.2.47		_	
>PCPCHes					YES	Reject
>>CPCH Parameters		1			_	
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>Transport Format Set	М		9.2.1.59	For the UL.	_	
>>>AP Preamble Scrambling Code	М		CPCH Scrambling Code Number		-	
>>>CD Preamble	M		9.2.2.4B CPCH		_	
Scrambling Code			Scrambling			

	1					
			Code			
			Number			
			9.2.2.4B			
>>>TFCS	М		9.2.1.58	For the UL	_	
>>>CD Signatures	0		Preamble	Note: When	—	
			Signatures	not present,		
			9.2.2.31	all CD		
				signatures		
				are to be		
				used.		
>>>CD Sub Channel	C-CDSig		9.2.2.1C		-	
Numbers						
>>>Puncture Limit	М		9.2.1.50	For the UL	—	
>>>CPCH UL DPCCH Slot	М		9.2.2.4C	For UL	-	
Format				CPCH		
				message		
				control part		
>>>UL SIR	М		UL SIR		-	
		<u> </u>	9.2.2.58			
>>>Initial DL transmission	М		DL Power		-	
Power		<u> </u>	9.2.1.21			
>>>Maximum DL Power	М		DL Power		—	
			9.2.1.21			
>>>Minimum DL Power	М		DL Power		_	
			9.2.1.21			
>>>PO2	М		Power	Power offset	_	
			Offset	for the TPC		
			9.2.2.29	bits		
>>>PO3	М		Power	Power offset	_	
			Offset	for the pilot		
			9.2.2.29	bits		
>>>FDD TPC DL Step Size	М		9.2.2.16		_	
>>>N_Start_Message	M		9.2.2.23C		_	
>>>N_EOT	М		9.2.2.23A		_	
>>Channel Assignment Indication	М		9.2.2.1D		_	
>>>CPCH Allowed Total	М	1	9.2.2.4A		_	
Rate						
>>>PCPCH Channel		1 <ma< td=""><td></td><td></td><td>-</td><td></td></ma<>			-	
Information		xnoofP				
		CPCHs				
		>				
>>>Common Physical	М		9.2.1.13		-	
Channel ID						
>>>>CPCH Scrambling	М		9.2.2.4B	For UL	_	
Code Number				PCPCH		
>>>>DL Scrambling Code	М		9.2.2.13	For DL	_	
-				CPCH		
				message		
				part		
>>>FDD DL	М		9.2.2.14	For DL	_	
Channelisation Code				CPCH		
Number				message		
				part		
>>>PCP Length	М		9.2.2.24A		-	
>>>>UCSM Information	C-NCA	1			_	
>>>>Min UL	М		9.2.2.22		_	
Channelisation Code						
	•	•	•			

Length						
>>>>NF_max	M		9.2.2.23B		_	
>>>>Channel	111	0 <ma< td=""><td>3.2.2.200</td><td>   </td><td></td><td></td></ma<>	3.2.2.200			
Request Parameters		xAPSig			_	
Request l'alameters		Num>				
>>>>AP Preamble	М	Nulliz	9.2.2.1A		_	
Signature	101		5.2.2.17		_	
>>>>AP Sub Channel	0		9.2.2.1B			
Number	U		9.2.2.10		_	
>>>VCAM Mapping	C-CA	1 <ma< td=""><td></td><td>Refer to TS</td><td>_</td><td></td></ma<>		Refer to TS	_	
Information	0-0A	xnoofL		[18]	_	
information		en>		[10]		
>>>>Min UL	М	en>	9.2.2.22			
Channelisation Code	171		9.2.2.22		_	
Length						
>>>NF_max	M		9.2.2.23B			
					_	
>>>>Max Number of	Μ		9.2.2.20A		-	
PCPCHes						
>>>SF Request		1 <ma< td=""><td></td><td></td><td>-</td><td></td></ma<>			-	
Parameters		xAPSig				
		Num>				
>>>>AP Preamble	М		9.2.2.1A		-	
Signature						
>>>>AP Sub Channel	0		9.2.2.1B		-	
Number						
>>>AP-AICH Parameters		1			-	
>>>>Common Physical	M		9.2.1.13		_	
Channel ID		_				
>>>>DL Scrambling Code	Μ		9.2.2.13		_	
>>>>FDD DL	Μ		9.2.2.14		-	
Channelisation Code						
Number						
>>>AP-AICH Power	М		AICH		_	
			Power			
			9.2.2.D			
>>>CSICH Power	Μ		AICH	For CSICH	_	
			Power	bits at end of		
			9.2.2.D	AP-AICH		
				slot		
>>>STTD Indicator	М		9.2.2.47		_	
>>>CD/CA-ICH		1			_	
Parameters						
>>>Common Physical	М		9.2.1.13		_	
Channel ID						
>>>>DL Scrambling Code	М		9.2.2.13		_	
>>>FDD DL	M		9.2.2.14		_	
Channelisation Code			5.2.2.17			
Number						
>>>CD/CA-ICH Power	М		AICH			
	101		Power			
			9.2.2.D			
SSSS OTTO Indiantar	М		9.2.2.D 9.2.2.47			
>>>STTD Indicator	IVI		9.2.2.41		-	

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.
СА	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.

# 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Node B Information		1				
>DL or Global Capacity	M		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	М		9.2.2.6			
Capacity Consumption						
Law						
Cell Information		0 <			EACH	ignore
		maxCellin				
0.15		NodeB >				
>C-ID	M		9.2.1.9		—	
>Configuration Generation ID	М		9.2.1.16			
>Resource Operational	M		9.2.1.52		_	
State	IVI		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		
>Primary SCH		01			YES	ignore
Information			0.0.4.40			
>Common Physical Channel ID	М		9.2.1.13		_	
>>Resource	Μ		9.2.1.52		_	
Operational State	101		0		_	
>>Availability Status	М		9.2.1.2		_	
>Secondary SCH		01			YES	ignore
Information						
>Common Physical Channel ID	М		9.2.1.13		—	
>>Resource	N.4		9.2.1.52			
Operational State	М		5.2.1.52		_	
>>Availability Status	М		9.2.1.2		_	
>Primary CPICH		01			YES	ignore
Information		-				.9
>>Common Physical	М		9.2.1.13		—	
Channel ID >>Resource			9.2.1.52			
Operational State	М		3.2.1.02		—	
>>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>				.9
>>Common Physical Channel ID	М		9.2.1.13		-	
>>Resource	Μ	1	9.2.1.52	1	_	
Operational State						
>>Availability Status	М		9.2.1.2		_	
>Primary CCPCH Information		01			YES	ignore
>>Common Physical	М	1	9.2.1.13		_	

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Channel ID					
>>Resource	M		9.2.1.52		
Operational State	IVI		0.2.1.02	_	
>>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			0.2.1.02		
>>Availability Status	М		9.2.1.2	_	
>Secondary CCPCH		0 <maxsc< td=""><td></td><td>EACH</td><td>ignore</td></maxsc<>		EACH	ignore
Information		CPCHCell			.9
		>			
>>Common Physical	М	-	9.2.1.13	_	
Channel ID	101				
>>Resource	М		9.2.1.52	_	
Operational State					
>>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					
>>Availability Status	М		9.2.1.2		
>PICH Information		01		YES	ignore
>>Common Physical	М		9.2.1.13	_	0
Channel ID					
>>Resource	М		9.2.1.52	-	
Operational State					
>>Availability Status	М		9.2.1.2	—	
>FACH Information		0 <maxfa< td=""><td></td><td>EACH</td><td>ignore</td></maxfa<>		EACH	ignore
		CHCell>			Ū
>>Common Transport	М		9.2.1.14	_	
Channel ID					
>>Resource	М		9.2.1.52	-	
Operational State					
>>Availability Status	М		9.2.1.2	—	
>PRACH Information		0 <maxpr< td=""><td></td><td>EACH</td><td>ignore</td></maxpr<>		EACH	ignore
		ACHCell>			Ū
>>Common Physical	М		9.2.1.13	_	
Channel ID					
>>Resource	М		9.2.1.52	-	
Operational State					
>>Availability Status	М		9.2.1.2	—	
>RACH Information		0 <maxra< td=""><td></td><td>EACH</td><td>ignore</td></maxra<>		EACH	ignore
		CHCell>			U
>>Common Transport	М		9.2.1.14	_	
Channel ID			0.2		
>>Resource	М		9.2.1.52	-	
Operational State					
>>Availability Status	М		9.2.1.2	—	
>AICH Information		0 <maxra< td=""><td></td><td>EACH</td><td>ignore</td></maxra<>		EACH	ignore
		CHCell>			Ū
>>Common Physical	М		9.2.1.13	_	
Channel ID					
>>Resource	М		9.2.1.52	_	
Operational State	L	L			
>>Availability Status	М		9.2.1.2		
>PCPCH Information		0 <maxpc< td=""><td></td><td>EACH</td><td>ignore</td></maxpc<>		EACH	ignore
	1	PCHCell>		_	<b>J</b>
		FUNCEII>			
>>Common Physical	M	PUNCEII>	92113		
>>Common Physical Channel ID >>Resource	М	PUNCell>	9.2.1.13	-	

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-	~

Operational State						
>>Availability Status	М		9.2.1.2		_	
>CPCH Information		0 <maxcp CHCell&gt;</maxcp 			EACH	ignore
>>Common Transport Channel ID	М		9.2.1.14		_	
>>Resource Operational State	М		9.2.1.52		-	
>>Availability Status	М		9.2.1.2		_	
>AP-AICH Information		0 <maxcp CHCell&gt;</maxcp 			EACH	ignore
>>Common Physical Channel ID	М		9.2.1.14			
>>Resource Operational State	М		9.2.1.52			
>>Availability Status	М		9.2.1.2			
>CD/CA-ICH Information		0 <maxcp CHCell&gt;</maxcp 			EACH	ignore
>>Common Physical Channel ID	М		9.2.1.14			
>>Resource Operational State	М		9.2.1.52			
>>Availability Status	М		9.2.1.2			
>SCH Information		01		<u>TDD Sync</u> <u>Channel</u>	YES	ignore
>>Common Physical Channel ID	М		9.2.1.14		_	
>>Resource Operational State	Μ		9.2.1.52		_	
>>Availability Status	М		9.2.1.2		_	
Communication Control Port Information		0 <maxccpi nNodeB&gt;</maxccpi 			EACH	ignore
>Communication Control Port ID	М		9.2.1.15		-	
>Resource Operational State	М		9.2.1.52		_	
>Availability Status	М		9.2.1.2		_	
Local Cell Information		0 <maxlocal CellinNode B&gt;</maxlocal 			EACH	ignore
>Local Cell ID	М		9.2.1.38		_	
>DL or Global Capacity Credit	М		9.2.2.12			
>UL Capacity Credit	0		9.2.2.60			
>Common Channels Capacity Consumption Law	M		9.2.2.3			
>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
>Maximum DL Power Capability	0		9.2.1.39		-	
>Minimum Spreading Factor	0		9.2.1.47			
>Minimum DL Power Capability	0		9.2.1.46A		_	
Criticality diagnostics	0	1	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

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		CHANGE F	REQI	JEST			ile at the bottom of th to fill in this form corr	
		25.433	CR	320r	1	Current Version	on: 3.3.0	
GSM (AA.BB) or 3G	(AA.BBB) specific	ation number $\uparrow$		↑c	R number a	as allocated by MCC s	support team	
For submission t	meeting # here ↑	for infor		X		strate non-strate	gic use on	ly)
Proposed chang (at least one should be m	e affects:	(U)SIM	ME			/ Radio X	rg/Information/CR-Form-	
Source:	R-WG3					Date:	20 Nov 2000	
Subject:	Time meas	urement granulari	ty					
Work item:								
Category:FA(only one categorybshall be markedCwith an X)D	Addition of	modification of fea		rlier relea	ase	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
<u>Reason for</u> <u>change:</u>	LS R3-003 <sup>-</sup> new definiti <u>Consequer</u>	changed the grant 154. This CR refle on in 25.433. <u>ces if not accepte</u> cy between WG3	cts the c <u>d:</u>	changes i	made in			in
Clauses affected	<u>l:</u> 9.2.1.2	2 <mark>4, 9.2.1.43, 9.2.1</mark> .	. <mark>44, 9.3.</mark>	4				
affected:	Other 3G cor Other GSM o specificat MS test spec BSS test spe O&M specific	ions ifications cifications	-	$\begin{array}{l} \rightarrow \text{ List of} \\ \rightarrow \text{ List of} \end{array}$	CRs: CRs: CRs:	25.423: CR275	5r1	
Other comments:								
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<----- double-click here for help and instructions on how to create a CR.

### 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(0. .63)	According to mapping in [22] and [23]
>SIR error Value	C MeasValu e		INTEGER(0. .125)	According to mapping in [22], (FDD only)
>Transmitted Code Power Value	C MeasValu e		INTEGER(0. .127)	According to mapping in [22] and [23]
>RSCP	C MeasValu e		INTEGER(0. .81)	According to mapping in [23], (TDD only)
>Rx Timing Deviation	C MeasValu e		INTEGER(0. .2047)	According to mapping in [23], (TDD only)
>Round Trip Time	C MeasValu e		INTEGER(0. . <del>8191<u>32767</u>)</del>	According to mapping in [22], (FDD only)

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

## 9.2.1.43 Measurement Increase/Decrease Threshold

Information Element / Group	Presence	Range	IE Туре	Semantics Description
Name			and Reference	
RSSI	C – Threshold		INTEGER(0 620)	0: 0 dB 1: 0.1 dB 2: 0.2 dB
Transmitted Carrier Power	C –		INTEGER(0	 620: 62dB According to mapping in [22]
Acknowledged PRACH	Threshold C –		100) INTEGER(0	and [23] According to mapping in [22],
Preambles UL Timeslot ISCP	Threshold C – Threshold		240,) INTEGER(0 80)	(FDD only) 0: 0 dB 1: 0.5 dB
	Theshold			2: 1 dB  80: 40dB, (TDD only)
SIR	C – Threshold		INTEGER(0 62)	0: 0 dB 1: 0.5 dB 2: 1 dB
SIR Error	C – Threshold		INTEGER(0 124)	 62: 31dB 0: 0 dB 1: 0.5 dB
				2: 1 dB  124: 62 dB, (FDD only)
Transmitted Code Power	C – Threshold		INTEGER(0 112,)	0: 0 dB 1: 0.5 dB 2: 1 dB
				 112: 56 dB
RSCP	C – Threshold		INTEGER(0 80)	0: 0 dB 1: 0.5 dB 2: 1 dB
Round Trip Time	C – Threshold		INTEGER(0 <del>8190<u>3276</u></del>	80: 40dB, (TDD only) 0: 0 chips 1: <u>0.250.0625</u> chips
			<u>6</u> )	2: <u>0.50.1250</u> chips  <u>819032766</u> : <u>2047.52047.875</u> chips, (FDD only)
Acknowledged PCPCH Access Preambles	C – Threshold		INTEGER(0 15,)	According to mapping in [22] (FDD only)
Detected PCPCH Access Preambles	C – Threshold		INTEGER(0 240,)	According to mapping in [22] (FDD only)

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

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	Presence	Range	IE Type and	Semantics Description
Name			Reference	
RSSI	C –		INTEGER(0.	According to mapping in [22] and
	Threshold		.621)	[23]
Transmitted Carrier Power	C –		INTEGER(0.	According to mapping in [22] and
	Threshold		.100)	[23]
Acknowledged PRACH	C –		INTEGER(0.	According to mapping in [22],
Preambles	Threshold		.240,)	(FDD only)
UL Timeslot ISCP	C –		INTEGER(0.	According to mapping in [23] (TDD
	Threshold		.81)	only)
SIR	C –		INTEGER(0.	According to mapping in [22] and
	Threshold		.63)	[23]
SIR Error	C –		INTEGER(0.	According to mapping in [22],
	Threshold		.125)	(FDD only)
Transmitted Code Power	C –		INTEGER(0.	According to mapping in [22] and
	Threshold		.127)	[23]
RSCP	C –		INTEGER(0.	According to mapping in [23] (TDD
	Threshold		.81)	only)
Rx Timing Deviation	C -		INTEGER(0.	According to mapping in [23] (TDD
-	Threshold		.2047)	only)
Round Trip Time	C –		INTEGER(0.	According to mapping in [22]
	Threshold		. <del>8191<u>32767</u>)</del>	(FDD only)
Acknowledged PCPCH Access	C –		INTEGER(0.	According to mapping in [22] (FDD
Preambles	Threshold		.15,)	only)
Detected PCPCH Access	C –		INTEGER(0.	According to mapping in [22] (FDD
Preambles	Threshold		.240,)	only)

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

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# 9.3.4 Information Elements Definitions

```
****
                                                *****
__**********
-- Information Element Definitions
-- R
RACH-SlotFormat ::= ENUMERATED {
   v0,
   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 (1..256)
RefTFCNumber ::= INTEGER (0..3)
ReportCharacteristics ::= CHOICE {
   onDemand
                         NULL,
   periodic
                         ReportCharacteristicsType-ReportPeriodicity,
   event-a
                     ReportCharacteristicsType-EventA,
                    ReportCharacteristicsType-EventB,
   event-b
                    ReportCharacteristicsType-EventC,
   event-c
   event-d
                     ReportCharacteristicsType-EventD,
                     ReportCharacteristicsType-EventE,
   event-e
   event-f
                    ReportCharacteristicsType-EventF,
   . . .
}
ReportCharacteristicsType-EventA ::= SEQUENCE {
                        ReportCharacteristicsType-MeasurementThreshold,
me ReportCharacteristicsType-ScaledMeasurementHysteresisTime
   measurementThreshold
   measurementHysteresisTime
   OPTIONAL,
   iE-Extensions
                                ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-
ExtIEs } } OPTIONAL,
       . . .
   }
ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
ReportCharacteristicsType-EventB ::= SEQUENCE {
                         {\tt ReportCharacteristicsType-MeasurementThreshold},
   measurementThreshold
   measurementHysteresisTime
                                ReportCharacteristicsType-ScaledMeasurementHysteresisTime
   OPTIONAL,
                                ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-
   iE-Extensions
            OPTIONAL,
ExtIEs} }
       . . .
   }
ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

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ReportCharacteristicsType-EventC ::= SEQUENCE {
      measurement {\tt Increase Threshold} \qquad {\tt Report Characteristics Type-Measurement {\tt Increase Decrease Threshold}, }
      {\tt measurementChangeTime} \\ {\tt ReportCharacteristicsType-ScaledMeasurementChangeTime}, \\
       iE-Extensions
                                                               ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-
                          OPTIONAL,
ExtIEs} }
       }
ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
ReportCharacteristicsType-EventD ::= SEQUENCE {
      measurementDecreaseThreshold ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
measurementChangeTime ReportCharacteristicsType-ScaledMeasurementChangeTime,
      measurementChangeTime
                                                              ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-
       iE-Extensions
ExtIEs} }
                           OPTIONAL,
              . . .
       }
ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
ReportCharacteristicsType-EventE ::= SEQUENCE {
      measurementThreshold1
                                                              ReportCharacteristicsType-MeasurementThreshold,
       measurementThreshold2
                                                               ReportCharacteristicsType-MeasurementThreshold
      OPTIONAL,
      measurementHysteresisTime
                                                              ReportCharacteristicsType-ScaledMeasurementHysteresisTime
      OPTIONAL,
       reportPeriodicity
                                                               ReportCharacteristicsType-ReportPeriodicity
       OPTIONAL,
                                                                ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-
       iE-Extensions
                        OPTIONAL,
ExtIEs} }
              . . .
       }
ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      . . .
}
ReportCharacteristicsType-EventF ::= SEQUENCE {
      measurementThreshold1
                                                              ReportCharacteristicsType-MeasurementThreshold,
       measurementThreshold2
                                                              ReportCharacteristicsType-MeasurementThreshold
       OPTIONAL,
      measurementHysteresisTime
                                                              ReportCharacteristicsType-ScaledMeasurementHysteresisTime
       OPTIONAL,
       reportPeriodicity
                                                              ReportCharacteristicsType-ReportPeriodicity
      OPTIONAL,
      iE-Extensions
                                                                ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-
                       OPTIONAL.
ExtIEs} }
ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
       . . .
}
ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
       transmitted-carrier-power Transmitted carrier of Correct Transmitted Correct Transmitt
      rssi
      transmitted-carrier-power
ackowledged-prach-preambles
UL-TimeslotISCP-Value-IncrDecrThres,
                                                              Transmitted-Carrier-Power-Value,
                                                                   Acknowledged-PRACH-preambles-Value,
      uL-TimeslotISCP
sir
       sir-error
                                                      SIR-Error-Value-IncrDecrThres,
       transmitted-code-power
                                                                Transmitted-Code-Power-Value-IncrDecrThres,
                                                              RSCP-Value-IncrDecrThres,
      rscp
       round-trip-time
                                                               Round-Trip-Time-IncrDecrThres,
       a \verb|cknowledged-PCPCH-access-preambles| A \verb|cknowledged-PCPCH-access-preambles|, \\
       detected-PCPCH-access-preambles
                                                                             Detected-PCPCH-access-preambles,
       . . .
}
ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
       transmitted-carrier-power Transmitted
                                                                Transmitted-Carrier-Power-Value,
       ackowledged-prach-preambles
                                                                      Acknowledged-PRACH-preambles-Value,
```

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```
uL-TimeslotISCP
                                    UL-TimeslotISCP-Value,
                               SIR-Value,
    sir
                                SIR-Error-Value,
    sir-error
    transmitted-code-power
                                     Transmitted-Code-Power-Value,
                                     RSCP-Value,
    rscp
    rx-timing-deviation
                                    Rx-Timing-Deviation-Value,
    round-trip-time
                                    Round-Trip-Time-Value,
    acknowledged-PCPCH-access-preambles Acknowledged-PCPCH-access-preambles,
                                            Detected-PCPCH-access-preambles,
    detected-PCPCH-access-preambles
    . . .
}
ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
                        MeasurementChangeTime-Scaledmsec,
    msec
    . . .
}
MeasurementChangeTime-Scaledmsec ::= INTEGER (1..600,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
                        MeasurementHysteresisTime-Scaledmsec,
    msec
    . . .
}
MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..600,...)
-- MeasurementHysteresisTime-Scaledmsec = 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
}
RetentionPriority ::= INTEGER(0..15)
LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}
RL-ID ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
Round-Trip-Time-IncrDecrThres ::= INTEGER(0...819032766)
Round-Trip-Time-Value ::= INTEGER(0...819132767)
-- According to mapping in 25.215[22]
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)
```

ж	<b>25.433</b> CR <b>321 #</b> rev <b>- #</b> Current version: <b>3.3.0 #</b>				
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the pop-up text over the $lpha$ symbols.				
Proposed change a	affects: # (U)SIM ME/UE Radio Access Network Core Network				
Title: ដ	Dated References for Mapping of Measurements in NBAP				
Source: ೫	R-WG3				
Work item code: ೫	Date: # November 2000				
Category: Ж	F Release: # R99				
	Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tetailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5				
	R-WG3				
Reason for change	E: X To avoid compatibility problems the mapping of measurement values shall be fixed to a dated version of 25.123 and 25.133 (rather that an non-dated reference).				
Summary of chang	The version of the specifications 25.123 and 25.133 has been fixed to v3.3.x. Note that the specifications 25.123 and 25.133 are only referred to for mapping or accuracy of measurements.				
Consequences if not approved:	* The specifications 25.123 and 25.133 can never be changed with regards to the current mapping of measurements without risking to jeopardise the backwards compatibility of the NBAP specification, i.e. changes in 25.123 or 25.133 may cause inter-working problems (unless RAN WG4 takes responsibility for the NBAP backward and forward compatibility).				
Clauses affected:	¥				
Other specs affected:	<b>X</b> Other core specifications <b>X</b> TS 25.433 CR321         Test specifications       0&M Specifications				
Other comments:	¥				

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G\_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 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] 3GPP TS 25.401: "UTRAN Overall Description".
- [2] 3GPP TS 25.426: "UTRAN I<sub>ur</sub> and I<sub>ub</sub> 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] 3GPP TS 25.215: "Physical layer Measurements (FDD)".
- [5] 3GPP TS 25.225: "Physical layer Measurements (TDD)".
- [6] 3GPP TS 25.430: "UTRAN Iub General Aspect and Principle".
- [7] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [8] 3GPP TS 25.212: "Multiplexing and channel coding (FDD)".
- [9] 3GPP TS 25.213: "Spreading and modulation (FDD)".
- [10] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [11] X.691, (12/97) "Information technology ASN.1 encoding rules Specification of Packed Encoding Rules (PER)".
- [12] X.680, (12/97) "Information Technology Abstract Syntax Notation One (ASN.1):Specification of basic notation".
- [13] X.681, (12/97) "Information Technology Abstract Syntax Notation One (ASN.1): Information object specification"
- [14] 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- [15] 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [16] 3GPP TS25.427: "UTRAN Iur/Iub Interface User Plane Protocol for DCH Data Stream"
- [17] 3GPP TS25.402: "Synchronisation in UTRAN Stage2"
- [18] 3GPP TS25.331: "RRC Protocol Specification"
- [19] 3GPP TS25.221: "Physical channels and mapping of transport channels onto physical channels[TDD]"
- [20] 3GPP TS25.223: "Spreading and modulation (TDD)"
- [21] 3GPP TS25.224: "Physical Layer Procedures (TDD)"
- [22] 3GPP TS 25.133(V3.3): "Requirements for support of Radio Resource management (FDD)"
- [23] 3GPP TS 25.123(V3.3): "Requirements for support of Radio Resource management (TDD)"

- [24] 3GPP TS 25.435: "UTRAN Iub Interface: User Plane Protocols for Common Transport Channel Data Streams".
- [25] 3GPP TS 25.302: "Services Provided by the Physical Layer".

			CHANGI	EREG	UES	Please page fo		p file at the bottom of this ow to fill in this form corre	
			25.43	3 CR	322	2	Current Vers	sion: 3.3.0	
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Subject:		Introduction	of extension	o <mark>f DdMod</mark>	e				
Work item:									
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<u>Reason for</u> change:		<u>Consequen</u>	pposes to mak ces if not acce not flexible an	epted:				AN3#16 meeting.	
Clauses affecte	ed:	9.2.1.4	<mark>6, 9.3.5</mark>						
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<u>Other</u> comments:									



<----- double-click here for help and instructions on how to create a CR.

## 9.2.1.46 Message Type

I

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 TERMINATION, COMMON MEASUREMENT FAILURE, CELL SETUP, CELL RECONFIGURATION, CELL DELETION, RESOURCE STATUS INDICATION, SYSTEM INFORMATION UPDATE, RL SETUP, RL ADDITION, SYNCHRONISED RL RECONFIGURATION COMMIT, SYNCHRONISED RL RECONFIGURATION PREPARATION, SYNCHRONISED RL RECONFIGURATION COMMIT, SYNCHRONISED RL RECONFIGURATION CANCELLATION, UNSYNCHRONISED RL RECONFIGURATION, RL DELETION, DL POWER CONTROL, DEDICATED MEASUREMENT INITIATION, DEDICATED MEASUREMENT REPORTING, DEDICATED MEASUREMENT FAILURE, RL FAILURE, RL FAILURE, RL RESTORATION, COMPRESSED MODE COMMAND, ERROR INDICATION, PHYSICAL SHARED CHANNEL RECONFIGURATION, RESET, )	
>>Ddmode	M		ENUMERATED (FDD, TDD, Common,)	Common = common to FDD and TDD.
>Type of Message	М		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

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## 9.3.5 Common Definitions

```
******
 __ *********
 -- Common definitions
 _ _
 NBAP-CommonDataTypes {
 itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
 umts-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }
 DEFINITIONS AUTOMATIC TAGS ::=
 BEGIN
 Criticality
              ::= ENUMERATED { reject, ignore, notify }
 MessageDiscriminator ::= ENUMERATED { common, dedicated }
 Presence
               ::= ENUMERATED { optional, conditional, mandatory }
 PrivateIE-ID ::= CHOICE {
           INTEGER (0..65535),
     local
     global
                      OBJECT IDENTIFIER
 }
 ProcedureCode ::= INTEGER (0..255)
 ProcedureID := SEQUENCE {
                          INTEGER (0..255),
ENUMERATED { tdd, fdd, common<u>,</u> ....}
    procedureCode
ddMode
 }
 ProtocolExtensionID ::= INTEGER (0..65535)
                   ::= INTEGER (0..65535)
 ProtocolIE-ID
               ::= CHOICE {
 TransactionID
    shortTransActionId INTEGER (0..127),
longTransActionId INTEGER (0..32767)
 }
 TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessfull-outcome,
 outcome }
```

END

	CHANGE	REQUEST		CR-Form-v3
<sup>#</sup> TS 25	5.433 CR 323	rev <mark>1</mark> ۲ ۲ ۲	urrent version: 3.3.	<b>0</b> <sup>#</sup>
For <u>HELP</u> on using	this form, see bottom of this	page or look at the p	op-up text over the ¥	symbols.
Proposed change affect	<i>cts:</i> ೫ (U)SIM ME/0	UE Radio Acces	ss Network X Core	Network
Title: ೫ E>	xtensibility Correction for DCH	Information Respon	se Group IE	
Source: % R-	-WG3			
Work item code: %			<i>Date:</i>	)
Category: ೫ F		R	elease:	
Det be f	<ul> <li>e <u>one</u> of the following categories:</li> <li>F (essential correction)</li> <li>A (corresponds to a correction</li> <li>B (Addition of feature),</li> <li>C (Functional modification of feature)</li> <li>D (Editorial modification)</li> <li>cailed explanations of the above of found in 3GPP TR 21.900.</li> </ul>	in an earlier release) eature)	Use <u>one</u> of the following 2 (GSM Phase R96 (Release 199 R97 (Release 199 R98 (Release 199 R99 (Release 199 REL-4 (Release 4) REL-5 (Release 5)	92) 96) 97) 98)
	WG3 Making extensible the conf	tent of DCH informati	ion Response Group I	E within the
j.	context of coordinated DCI			
Summary of change: #	R1: Rewording of the proc	edure text to avoid co	onfusion	
	Binding ID IE and Transpo DCH Information Respons		nas been made option	al within the
Consequences if # not approved:	The addition of new DCH of RLS would not be possible protocol.			
Clauses affected: #	<b>8</b> 8.3.2.2, 8.3.5.2, 9.1.37.1, 9	1 37 2 9 1 38 1 0 1		119143
	9.1.48, 9.3.3	. 1.07.2, 3.1.30.1, 3.1	1. <del>4</del> 0.2, 3.1.4	1.1, 3.1.43,
Other specs # affected:	Conter core specification Test specifications O&M Specifications	s ¥		
Other comments: #	ß			

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G\_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

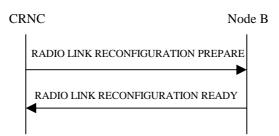
### 8.3.2.1 General

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.

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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 any *DCHs to Modify* IEs then the Node B shall treat them each as follows:

- If the *DCHs to Modify* IE includes the *Retention Priority* IE, the Node B should use this information to prioritise the retention of the resources used by the DCHes in error situation.
- If the *DCHs to Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes 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 *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH Id* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH Id* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs then the Node B shall treat them each as follows:

- The Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration.
- If the *DCHs to Add* IE 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.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16]].
- For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16].
- The Node B 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.
- [TDD The Node B shall apply the *CCTrCH Id* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH Id* IE (for the UL) in the Uplink of this DCH in the new configuration.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Delete* IEs, the Node B shall not include the referenced DCHs in the new configuration.

If all of 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 an *UL DPCH Information* IE then the Node B shall apply the parameters to the new configuration as follows: ]

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- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the UL DPCH Information IE includes the Min UL Channelisation Code Length IE, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the Max Number of UL DPDCHs IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD If the *UL DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuratio
- [FDD The Node B shall use the *TFCS* IE for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPCCH Slot Format* IE, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]
- [FDD If the UL DPCH Information IE includes the Diversity Mode IE, the Node B shall apply diversity according to the given value.]
- [FDD If the *UL DPCH Information* IE includes an *SSDT Cell Identity Length* IE and/or an *S-Field Length* IE, the Node B shall apply the values in the new configuration.]

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

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCCH Slot Format* IE, group the Node B shall set the new Downlink DPCCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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.]

[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, and the Transmission Gap Pattern Sequence Codes to be used in the new Compressed Mode Configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH to Modify* or *DL CCTrCH to Modify* IEs, then the Node B shall treat them each as follows:]

- [TDD - If the IE 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.]

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- [TDD If the IE includes any *UL DPCH to add* or *DL DPCH to add* IEs, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH to delete* or *DL DPCH to delete* IEs, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH to modify or DL DPCH to modify IEs, and includes any of Repetition Period IE, Repetition Length IE, or TDD DPCH Offset IE or the message includes UL/DL Timeslot Information and includes any of Midamble shiftand Burst Type IE, Time Slot IE, or TFCI presence IE or the message includes UL/DL Code information the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

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

[TDD - If the *UL/DL CCTrCH to Add* IE includes any *UL/DL DPCH Information* IE, the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

#### [TDD – 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.]

#### DSCH Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to modify*, *DSCH to add* or *DSCH to delete IEs*, 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.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCl2 Bearer Information* IE then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.

[FDD - If the *TFCI S ignaling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information* IE is not included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm in the new configuration.]

[FDD - If the *TFCI S ignaling Mode* IE within the RADIO LINK RECONFUGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall set the TFCI2 field transmit power to zero dbm until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer in the new configuration (see ref.[24]).]

#### [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.

#### **RL Information:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

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

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- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE containing a *DL Scrambling Code* IE, the Node B shall apply the scrambling code in the new configuration.]
- [FDD If the *RL Information* IE includes the *UL Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *RL Information* IE includes the *DL Code Information* IE containing a *DL Channelisation Code Number* IE, the Node B shall apply the channelisation code in the new configuration.]
- [FDD- If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration.

#### General

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 the RADIO LINK RECONFIGURATION READY message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of any Transport Channels being added or modified.

In case of a DCH requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* shall be included in the IE DCH Information Response IE group.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the <u>Transport Layer Address IE and the</u> <u>Binding ID IE in the</u> 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. <u>The *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.</u>

## 8.3.5 Unsynchronised Radio Link Reconfiguration

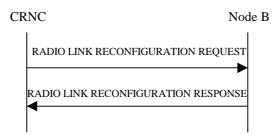
### 8.3.5.1 General

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 any *DCHs to Modify* IEs then the Node B shall treat them each as follows:

- If the *DCHs to Modify* IE includes on the *Retention Priority* IE, the Node B should use this new value to prioritise the retention of the resources used by the DCHes in error situation.
- If the *DCHs to Modify* IE includes on the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes 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 *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH Id* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH Id* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH to Add* IEs, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration. In particular:

- If a *DCHs to Add* IE includes multiple *DCH Specific Info* IEs for a DCH to be added, the Node B shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCHas the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16]].
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" as the QE in the UL data frames [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE [16]].
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the 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.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH Id* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH Id* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH Id in the Uplink of this DCH in the new configuration.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

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

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#### [FDD - Physical Channel Modification:]

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

- [FDD - If the *UL DPCH Information* IE includes the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

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

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the use the information when building TFCIs in the new configuration.
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall, if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE 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 *DL DPCH Information* IE 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 *DL DPCH Information* IE 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 - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH to modify* IE or *DL CCTrCH to modify* IE in the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD - If the *UL/DL CCTrCH to modify* IE includes *TFCS* IE, and/or *Puncture limit* IE the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

#### [TDD – UL/DL CCTrCH Deletion]

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

#### **RL Information:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Information* IE, the Node B shall treat it as follows:

- [TDD If the *DL Timeslot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]
- If the *RL Information* IE 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 *RL Information* IE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

- [FDD- If the *RL Information* IE 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.]
- [FDD- If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

#### General

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 the RADIO LINK RECONFIGURATION RESPONSE message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

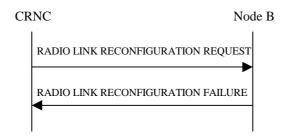
The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer* Address IE and the *Binding ID* IE for any Transport Channels being added or modified.

In case of a DCH requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* shall be included in the IE DCH Information Response IE group.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the <u>Transport Layer Address IE and the</u> <u>Binding ID IE in the DCH Information Response IE shall be included only for one of the DCH in the set of coordinated</u> 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. The *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the combined Radio Links-.

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

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- RL Already Activated/allocated
- Invalid CM Settings
- CM not supported

#### **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.

# 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 Context ID	M		9.2.1.18		YES	ignore
Transaction ID	Μ		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	М		9.2.1.15		YES	ignore
RL Information Response		1 to <maxnoofrl s&gt;</maxnoofrl 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>RL Set ID	М		9.2.2.39			
>RSSI	М		9.2.2.39A		-	
>Diversity Indication	C- NotFirstRL		9.2.2.8		_	
>CHOICE diversity Indication						
>>Combining					YES	ignore
>>>RL ID	М		9.2.1.53	Reference RL ID for the combining	-	
>>Non Combining or First RL					YES	Ignore
>>>DCH Information Response		0 to <maxnoofd CHs&gt;</maxnoofd 		Only one DCH per set of coordinated DCH shall be included	_	
>>>DCH ID	М		9.2.1.20		_	
>>>>Binding ID	<u>₩0</u>		9.2.1.4		-	
>>>>Transport Layer Address	₩ <u>0</u>		9.2.1.63		-	
>DSCH Information Response		0 to <numof DSCH&gt;</numof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.27		-	
>>Binding ID	М		9.2.1.4		-	
>>Transport Layer Address	M		9.2.1.63		-	
>SSDT Support Indicator	М		9.2.2.46		-	
TFCI2 bearer information Response		01				
>Binding ID	М		9.2.1.4		-	
>Transport Layer Address	Μ		9.2.1.63		-	
Criticality diagnostics	0	1	9.2.1.17	1	YES	ignore

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

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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	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	Μ		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	М		9.2.1.15		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	М		9.2.1.53		-	
>UL Interference per Time Slot		1 <maxnooful ts&gt;</maxnooful 		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	М		9.2.3.23			
>>UL Timeslot ISCP	М		9.2.3.26A			
>DCH Information Response		1 to <maxnoofd CH&gt;</maxnoofd 		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
>>DCH ID	Μ		9.2.1.20		-	
>>Binding ID	<u> MO</u>		9.2.1.4		-	
>>Transport Layer Address	₩ <u>0</u>		9.2.1.63		-	
>DSCH Information Response		0 <maxnoof DSCHs&gt;</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&gt;</maxnoof 			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 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	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		_	
Node B Communication Context ID	C-Success		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port ID	0		9.2.1.15		YES	ignore
CHOICE cause level						
>General					YES	ignore
>>Cause	М					
>RL specific					YES	ignore
>>Unsuccessful RL Information Response		1 to <maxnoo< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoo<>			EACH	ignore
	Μ	fRLs>	9.2.1.53		_	
>>>RL ID >>>Cause	M		9.2.1.6			
>>Successful RL Information Response		0 to <maxnoo fRLs-1&gt;</maxnoo 	0.2.1.0		EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>RL Set ID	М		9.2.2.39			
>>>RSSI	М		9.2.2.39A		_	
>>>Diversity Indication	C-NotFirstRL		9.2.2.8		_	
>>>CHOICE diversity Indication					-	
>>>Combining					YES	ignore
>>>>RL ID	Μ		9.2.1.53	Reference RL ID for the combining	_	
>>>Non Combining or First RL					YES	ignore
>>>>DCH Information Response		0 to <maxnoo fDCHs&gt;</maxnoo 		Only one DCH per set of coordinated DCH shall be included	-	
>>>>DCH ID	M		9.2.1.20		_	
>>>>Binding ID	M <u>O</u>		9.2.1.4		-	
>>>>>Transport Layer Address	<u> </u>		9.2.1.63		—	
>>>DSCH Information Response		0 to <numof DSCH&gt;</numof 			GLOBAL	Ignore
>>>DSCH ID	М		9.2.1.27		-	
>>>Binding ID	М		9.2.1.4		-	
>>>Transport Layer	М		9.2.1.63		-	

Address					
>>>TFCI2 bearer		01			
information Response					
>>>Binding ID	М		9.2.1.4	-	
>>>>Transport Layer	М		9.2.1.63	-	
Address					
>>>SSDT Support	М		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

# 9.1.40 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	М		9.2.1.62		_	
RL Information Response		1 <maxno ofRL-1&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>RL Set ID	М		9.2.2.9			
>RSSI	М		9.2.2.39A		-	
>Diversity Indication	М		9.2.1.26		-	
>CHOICE diversity indication					-	
>>Combining					YES	ignore
>>>RL ID	М		9.2.1.53	Reference RL	-	
>>Non combining					YES	ignore
>>>DCH Information Response		1< <i>maxno</i> ofDCHs>			-	
>>>DCH ID	М		9.2.1.20		_	
>>>Binding ID	<u> MO</u>		9.2.1.4		_	
>>>Transport Layer Address	₩ <u>0</u>		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 reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		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		_	<u> </u>
>UL Interference per Time Slot	M	1 <maxn oofULts &gt;</maxn 		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	М		9.2.3.23			
>>UL Timeslot ISCP	М		9.2.3.26A		_	
>Diversity Indication	М		9.2.1.26		_	
>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&gt;</ma 			-	
>>>DCH ID	М		9.2.1.20		_	
>>>Binding ID	MO		9.2.1.4		_	
>>>Transport Layer Address	₩ <u>O</u>		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	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context	M		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 <ma xnoofR L-1&gt;</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&gt;</ma 			EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>RL Set ID	М		9.2.2.39			
>>>RSSI	М		9.2.2.39A		_	
>>>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 <ma xnoofD CHs&gt;</ma 			_	
>>>>DCH ID	М		9.2.1.20		-	
>>>>Binding ID	₩ <u>0</u>		9.2.1.4		_	
>>>>>Transport Layer Address	₩ <u>O</u>		9.2.1.63		-	
>>>SSDT support indicator	M		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		

# 9.1.43 RADIO LINK RECONFIGURATION READY

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	М		9.2.1.18		YES	ignore
Transaction ID	М		9.2.1.62		-	
RL Information Response		0 <max noofRLs &gt;</max 		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	М		9.2.1.53		_	
>DCH Information Response		0 <max noofDC Hs&gt;</max 		Only one DCH per set of co- ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	М		9.2.1.20		—	
>>Binding ID	<u>₩0</u>		9.2.1.4		_	
>>Transport Layer Address	<u>₩0</u>		9.2.1.63		_	
>DSCH Information Response		0 <max noofDS CHs&gt;</max 			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 <maxno of USCHs &gt;</maxno 			GLOBAL	ignore
>>USCH ID	М		9.2.3.27		_	
>>Binding ID	М		9.2.1.4		-	
>>Transport Layer Address	М		9.2.1.63		-	
>TFCI2 bearer Information Response		01				
>>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 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

# 9.1.48 RADIO LINK RECONFIGURATION RESPONSE

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	Μ		9.2.1.18		YES	ignore
Transaction ID	М		9.2.1.62		-	
RL Information Response		0 <maxn oofRLs&gt;</maxn 		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	М		9.2.1.53		-	
>DCH Information Response		0 <maxn oofDCHs &gt;</maxn 		Only one DCH per set of co- ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	М		9.2.1.20		1	
>>Binding ID	<u>₩0</u>		9.2.1.4		-	
>>Transport Layer Address	<u>₩О</u>		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.		

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### 9.3.3 PDU Definitions

```
***** Ommited ASN 1 ******
  ____
-- 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
   { ID
                                                           CRITICALITY ignore
                                                                                     TYPE CRNC-CommunicationContextID
                                                                                                                                    PRESENCE
   mandatory }|
   { ID
          id-NodeB-CommunicationContextID
                                                           CRITICALITY ignore
                                                                                     TYPE
                                                                                          NodeB-CommunicationContextID
                                                                                                                                 PRESENCE
   mandatory }
          id-CommunicationControlPortID
                                                                                     TYPE CommunicationControlPortID
   { ID
                                                           CRITICALITY ignore
                                                                                                                                 PRESENCE
   mandatory }|
   { ID
          id-RL-InformationResponseList-RL-SetupRspFDD
                                                           CRITICALITY ignore
                                                                                     TYPE RL-InformationResponseList-RL-SetupRspFDD
                                                                                                                                    PRESENCE
   mandatory }
   { ID
          id-TFCI2-BearerInformationResponse-RL-SetupRspFDD
                                                           CRITICALITY ignore
                                                                                     TYPE TFCI2-BearerInformationResponse-RL-SetupRspFDD
              optional
   PRESENCE
                         }|
          id-CriticalityDiagnostics
   { ID
                                                           CRITICALITY ignore
                                                                                     TYPE CriticalityDiagnostics
                                                                                                                                 PRESENCE
   optional },
   . . .
}
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container{{ RL-InformationResponseItemIE-RL-
SetupRspFDD }}
RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
   { ID
          id-RL-InformationResponseItem-RL-SetupRspFDD
                                                               CRITICALITY
                                                                              ignore
                                                                                         TYPE RL-InformationResponseItem-RL-SetupRspFDD
   PRESENCE
              mandatory }
}
RL-InformationResponseItem-RL-SetupRspFDD ::= SEOUENCE {
   rL-ID
                                                RL-ID,
   rL-Set-ID
                                                RL-Set-ID,
   rSSI
                                                RSSI-Value,
   diversityIndication
                                 DiversityIndication-RL-SetupRspFDD,
```

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```
-- 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,
    iE-Extensions
                                                     ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } }
                                                                                                                                             OPTIONAL.
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                                Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                                NonCombiningOrFirstRL-RL-SetupRspFDD,
    . . .
Combining-RL-SetupRspFDD ::= ProtocollE-Single-Container {{ CombiningIE-RL-SetupRspFDD }}
CombiningIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD CRITICALITY ignore TYPE CombiningItem-RL-SetupRspFDD
                                                                                                      PRESENCE mandatory }
CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
                                                ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-RL-SetupRspFDD }}
NonCombiningOrFirstRLIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
     ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD CRITICALITY ignore TYPE NonCombiningOrFirstRLItem-RL-SetupRspFDD
                                                                                                                             PRESENCE mandatory
NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponseList
                                                    DCH-InformationResponseList-RL-SetupRspFDD
                                                                                                  OPTIONAL ,
                                                    ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
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 OPTIONAL,
   transportLayerAddress
                                                 TransportLayerAddress OPTIONAL,
                                                 ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                   OPTIONAL
    . . .
DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspFDD }}
DSCH-InformationResponseListIEs-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-SetupRspFDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-SetupRspFDD
                                                                                                                              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
                                                 TransportLayerAddress,
                                                 ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCI2-BearerInformationResponse-RL-SetupRspFDD ::= SEQUENCE {
   bindingID
                                                 BindingID,
   transportLayerAddress
                                                 TransportLayerAddress,
                                                 ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
TFC12-BearerInformationResponse-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
     _ _
_ _
-- RADIO LINK SETUP RESPONSE TDD
---
```

```
RadioLinkSetupResponseTDD ::= SEQUENCE {
    protocolIEs
                            ProtocolIE-Container
                                                     {{RadioLinkSetupResponseTDD-IEs}},
   protocolExtensions
                            ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
                                                                                                      OPTIONAL.
    . . .
RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
           id-CRNC-CommunicationContextID
                                                                 CRITICALITY
                                                                                 ignore
                                                                                                 TYPE CRNC-CommunicationContextID
    PRESENCE
                mandatory }|
           id-NodeB-CommunicationContextID
    { ID
                                                                 CRITICALITY
                                                                                 ignore
                                                                                                 TYPE NodeB-CommunicationContextID
                                                                                                                                                 PRESENCE
    mandatory }|
           id-CommunicationControlPortID
    { ID
                                                                 CRITICALITY
                                                                                 ignore
                                                                                                 TYPE
                                                                                                         CommunicationControlPortID
    PRESENCE
                mandatory }|
    { ID
           id-RL-InformationResponse-RL-SetupRspTDD
                                                                 CRITICALITY
                                                                                 ignore
                                                                                                 TYPE RL-InformationResponse-RL-SetupRspTDD
                mandatory }|
    PRESENCE
    { ID
           id-CriticalityDiagnostics
                                                                 CRITICALITY
                                                                                 ignore
                                                                                                 TYPE CriticalityDiagnostics
                                                                                                                                                 PRESENCE
    optional
              },
    . . .
RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE
    rL-ID
                                                     RL-ID,
    uL-InterferenceList-RL-SetupRspTDD
                                                     UL-InterferenceList-RL-SetupRspTDD,
    dCH-InformationResponseList
                                                     DCH-InformationResponseList-RL-SetupRspTDD,
    dSCH-InformationResponseList
                                                     DSCH-InformationResponseList-RL-SetupRspTDD
                                                                                                      OPTIONAL,
    uSCH-InformationResponseList
                                                     USCH-InformationResponseList-RL-SetupRspTDD
                                                                                                      OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs } }
                                                                                                                                             OPTIONAL,
    . . .
RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-InterferenceItem-RL-SetupRspTDD
UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    iSCP
                                    UL-TimeslotISCP-Value,
                                    ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs } }
    iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
UL-InterferenceItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container{{ DCH-InformationResponseListIEs-RL-SetupRspTDD }}
DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-SetupRspTDD
                                                            CRITICALITY
                                                                             ignore
                                                                                         TYPE
                                                                                                 DCH-InformationResponseListIE-RL-SetupRspTDD PRESENCE
    mandatory }
DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD
DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
    dCH-ID
                                                DCH-ID,
    bindingID
                                                BindingID OPTIONAL,
    transportLayerAddress
                                                TransportLayerAddress OPTIONAL,
   iE-Extensions
                                                ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs } }
                                                                                                                                         OPTIONAL.
    . . .
DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
l
DSCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-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
                                                ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs } }
                                                                                                                                         OPTIONAL,
DSCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
}
USCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-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}},
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL,
   . . .
}
RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CRNC-CommunicationContextID
                                                                                                   TYPE CRNC-CommunicationContextID
                                                                       CRITICALITY
                                                                                      ignore
                  PRESENCE mandatory }|
    { ID
          id-NodeB-CommunicationContextID
                                                                       CRITICALITY
                                                                                     ignore
                                                                                                   TYPE NodeB-CommunicationContextID
              PRESENCE
                        conditional }
   -- This IE is present if at least one of the radio links has been successfully set up
   { ID
         id-CommunicationControlPortID
                                                                       CRITICALITY
                                                                                     ignore
                                                                                                   TYPE
                                                                                                        CommunicationControlPortID
              PRESENCE
                         optional }|
   { ID
          id-CauseLevel-RL-SetupFailureFDD
                                                                       CRITICALITY
                                                                                     ignore
                                                                                                        CauseLevel-RL-SetupFailureFDD
                                                                                                   TYPE
   PRESENCE mandatory
                         }|
   { ID
          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-Single-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 ::= SEQUENCE cause Cause, iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL, . . . GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }} RLSpecificCauseIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= { { ID id-RLSpecificCauseItem-RL-SetupFailureFDD CRITICALITY ignore TYPE RLSpecificCauseItem-RL-SetupFailureFDD 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, ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD }} Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= { { ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, cause Cause, ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . .

}

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}

}

}

}

```
Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
           id-Successful-RL-InformationRespItem-RL-SetupFailureFDD
    { TD
                                                                             CRITICALITY
                                                                                             ignore
                                                                                                         TYPE Successful-RL-InformationRespItem-RL-
SetupFailureFDD
                    PRESENCE
                                mandatory }
Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
    rL-Set-ID
                                                RL-Set-ID,
    rSSI
                                                RSSI-Value.
    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,
    tFCI2-BearerInformationResponse
                                                TFCI2-BearerInformationResponse-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-Single-Container {{ CombiningIE-RL-SetupFailureFDD }}
CombiningIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupFailureFDD CRITICALITY ignore TYPE CombiningItem-RL-SetupFailureFDD
                                                                                                               PRESENCE mandatory }
CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
                                                ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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                                                                                                                   3GPP TS 25.433 version 3.3.0 Release 1999
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-RL-SetupFailureFDD }}
NonCombiningOrFirstRLIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD CRITICALITY ignore TYPE NonCombiningOrFirstRLItem-RL-SetupFailureFDD
                                                                                                                                       PRESENCE mandatory
NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEOUENCE
    dCH-InformationResponseList
                                                    DCH-InformationRespList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions
                                                    ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                                                OPTIONAL,
    . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationRespList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (1.. maxNrOfDCHs)) OF DCH-InformationRespItem-RL-SetupFailureFDD
DCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-ID
                                                DCH-ID,
    bindingID
                                                BindingID OPTIONAL,
    transportLayerAddress
                                                TransportLayerAddress OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-Single-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 ::= {
    . . .
```

```
3GPP
```

```
TFCI2-BearerInformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
   bindingID
                                            BindingID.
   transportLayerAddress
                                            TransportLayerAddress,
   iE-Extensions
                                            ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
   . . .
TFCI2-BearerInformationResponse-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
***** Ommited ASN.1 ******
_ _
-- RADIO LINK ADDITION RESPONSE FDD
_ _
  ****
RadioLinkAdditionResponseFDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{RadioLinkAdditionResponseFDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
   protocolExtensions
                                                                                                   OPTIONAL,
   . . .
RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CRNC-CommunicationContextID
                                                               CRITICALITY
                                                                              ignore
                                                                                              TYPE CRNC-CommunicationContextID
   PRESENCE
              mandatory }
   { ID
         id-RL-InformationResponseList-RL-AdditionRspFDD
                                                               CRITICALITY
                                                                              ignore
                                                                                              TYPE
                                                                                                   RL-InformationResponseList-RL-AdditionRspFDD
   PRESENCE
              mandatory }|
         id-CriticalityDiagnostics
   { ID
                                                               CRITICALITY
                                                                              ignore
                                                                                              TYPE CriticalityDiagnostics
   PRESENCE
              optional
                        },
   . . .
RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-
AdditionRspFDD }}
RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
   { ID
          id-RL-InformationResponseItem-RL-AdditionRspFDD
                                                                                           TYPE RL-InformationResponseItem-RL-AdditionRspFDD
                                                               CRITICALITY
                                                                              ignore
   PRESENCE
              mandatory}
}
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
   rL-Set-ID
                                                RL-Set-ID,
```

```
rSSI
                                                     RSSI-Value,
    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,
                                                     ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                                 OPTIONAL,
    . . .
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
                                                     Combining-RL-AdditionRspFDD,
    combining
    non-combining
                                                     Non-Combining-RL-AdditionRspFDD,
    . . .
Combining-RL-AdditionRspFDD ::= ProtocollE-Single-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-Single-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 ::= SEQUENCE {
    dCH-InformationResponseList
                                                     DCH-InformationResponseList-RL-AdditionRspFDD,
                                                     ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        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 OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL, ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } iE-Extensions OPTIONAL. . . . DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . \_ \_ RADIO LINK ADDITION RESPONSE TDD \_ \_ RadioLinkAdditionResponseTDD ::= SEQUENCE { {{RadioLinkAdditionResponseTDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }| { ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE { rL-TD 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-InfomationResponseList USCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } 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,
    iSCP
                                    UL-TimeslotISCP-Value,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                        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-Single-Container {{ CombiningIE-RL-AdditionRspTDD }}
CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspTDD
                                                                                                               PRESENCE mandatory }
CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Non-Combining-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ Non-CombiningIE-RL-AdditionRspTDD }}
Non-CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-AdditionRspTDD CRITICALITY ignore
                                                                        TYPE Non-CombiningItem-RL-AdditionRspTDD
                                                                                                                     PRESENCE mandatory }
}
Non-CombiningItem-RL-AdditionRspTDD ::= SEQUENCE
    dCH-InfomationResponseList
                                                DCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                   OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                                    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 ::= SEOUENCE {
    dCH-ID
                                            DCH-ID,
    bindingID
                                            BindingID OPTIONAL,
    transportLayerAddress
                                            TransportLayerAddress OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponseList-RL-AdditionRspTDD ::= Protocolle-Single-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}
DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-AdditionRspTDD
                                                                                                                                               PRESENCE
mandatory }
DSCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem-RL-AdditionRspTDD
DSCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    bindingID
                                        BindingID,
    transportLayerAddress
                                        TransportLayerAddress,
    iE-Extensions
                                        ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                                      OPTIONAL,
    . . .
DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocollE-Single-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 ::= SEQUENCE {
                          ProtocolIE-Container
                                                 {{RadioLinkAdditionFailureFDD-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                   OPTIONAL,
   . . .
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
           id-CRNC-CommunicationContextID
                                                 CRITICALITY
                                                                 ignore
                                                                            TYPE
                                                                                    CRNC-CommunicationContextID
                                                                                                                       PRESENCE mandatory
     ID
           id-CauseLevel-RL-AdditionFailureFDD
                                                                 ignore
                                                                            TYPE
                                                                                    CauseLevel-RL-AdditionFailureFDD
                                                                                                                       PRESENCE mandatory
                                                 CRITICALITY
                                                                                                                                           } |
           id-CriticalityDiagnostics
                                                                                    CriticalityDiagnostics
                                                                                                                       PRESENCE optional
    { ID
                                                 CRITICALITY
                                                                 ignore
                                                                            TYPE
                                                                                                                                           },
    . . .
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-AdditionFailureFDD,
                      RLSpecificCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
    . . .
GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}
GeneralCauseIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD
                                                                            CRITICALITY ignore
       TYPE GeneralCauseItem-RL-AdditionFailureFDD
                                                                            PRESENCE mandatory }
}
GeneralCauseItem-RL-AdditionFailureFDD ::= SEOUENCE {
   cause
                                              Cause,
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
   iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
}
```

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```

```
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}
RLSpecificCauseIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID
          id-RLSpecificCauseItem-RL-AdditionFailureFDD
                                                                                 CRITICALITY
                                                                                                 ignore
       TYPE
                RLSpecificCauseItem-RL-AdditionFailureFDD
                                                                                 PRESENCE
                                                                                             mandatory }
RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEOUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                    Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                    Successful-RL-InformationRespList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD
                                                                                 CRITICALITY
                                                                                                 ignore
                                                                                                           TYPE Unsuccessful-RL-InformationRespItem-RL-
AdditionFailureFDD PRESENCE
                                mandatory }
}
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID
                                                RL-ID,
    cause
                                                Cause,
    iE-Extensions
                                                ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }
    OPTIONAL,
    . . .
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
           id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD
    { ID
                                                                             CRITICALITY
                                                                                                        TYPE Successful-RL-InformationRespItem-RL-
                                                                                             ignore
AdditionFailureFDD
                        PRESENCE
                                    mandatory }
```

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```
Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID.
    rL-Set-ID
                                                RL-Set-ID.
    rSSI
                                                RSSI-Value,
    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 ::= ProtocollE-Single-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-TD
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Non-Combining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ Non-CombiningIE-RL-AdditionFailureFDD }}
Non-CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Non-CombiningItem-RL-AdditionFailureFDD
                                                                                                                              PRESENCE mandatory }
}
Non-CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponseList
                                                     DCH-InformationResponseList-RL-AdditionFailureFDD,
                                                     ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                             OPTIONAL,
    . . .
```

PRESENCE

PRESENCE

PRESENCE

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```
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD
DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
   dCH-ID
                                           DCH-ID,
   bindingID
                                           BindingID OPTIONAL,
                                           TransportLayerAddress OPTIONAL,
   transportLayerAddress
                                           ProtocolExtensionContainer { { DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
   . . .
DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
***** Ommited ASN.1 ******
-- RADIO LINK RECONFIGURATION READY
    RadioLinkReconfigurationReady ::= SEQUENCE {
                                               {{RadioLinkReconfigurationReady-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}}
                                                                                              OPTIONAL,
   . . .
RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CRNC-CommunicationContextID
                                                          CRITICALITY
                                                                         ignore
                                                                                    TYPE CRNC-CommunicationContextID
   mandatory }
   { ID
                                                                                    TYPE RL-InformationResponseList-RL-ReconfReady
          id-RL-InformationResponseList-RL-ReconfReady
                                                          CRITICALITY
                                                                         ignore
   optional
              } |
                                                                                    TYPE CriticalityDiagnostics
   { ID
          id-CriticalityDiagnostics
                                                          CRITICALITY
                                                                         ignore
   optional
            },
```

\_ \_

\_ \_

}

}

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

. . . }

. . .

::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container {{ RL-InformationResponseItemIE-RL-RL-InformationResponseList-RL-ReconfReady ReconfReady } }

```
RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
```

```
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                                                                                                                   3GPP TS 25.433 version 3.3.0 Release 1999
           id-RL-InformationResponseItem-RL-ReconfReady
                                                                     CRITICALITY
    { ID
                                                                                     ignore
                                                                                                   TYPE RL-InformationResponseItem-RL-ReconfReady
    PRESENCE
                mandatory }
RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
    rL-TD
                                                    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,
    tFCI2-BearerInformationResponse
                                                    TFCI2-BearerInformationResponse-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-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-ReconfReady CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfReady PRESENCE mandatory }
DCH-InformationResponseListIE-RL-ReconfReady ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReady
DCH-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
    dCH-ID
                                                DCH-ID,
    bindingID
                                                BindingID OPTIONAL,
    transportLayerAddress
                                                TransportLayerAddress OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-ReconfReady-ExtIEs } }
                                                                                                                                             OPTIONAL,
    . . .
DCH-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-ReconfReady CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-ReconfReadyPRESENCE mandatory }
}
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-Single-Container {{ USCH-InformationResponseListIEs-RL-ReconfReady }}
USCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
   { ID id-USCH-InformationResponseListIE-RL-ReconfReady CRITICALITY ignore TYPE USCH-InformationResponseListIE-RL-ReconfReady
                                                                                                                             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
                                             ProtocolExtensionContainer { { USCH-InformationResponseItem-RL-ReconfReady-ExtIEs } }
                                                                                                                                   OPTIONAL.
   . . .
}
USCH-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCI2-BearerInformationResponse-RL-ReconfReady ::= SEQUENCE {
   bindingID
                                             BindingID,
   transportLayerAddress
                                             TransportLayerAddress,
                                             ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-RL-ReconfReady-ExtIEs } }
   iE-Extensions
                                                                                                                                      OPTIONAL,
   . . .
}
TFCI2-BearerInformationResponse-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
***** Ommited ASN.1 ******
   _ _
-- RADIO LINK RECONFIGURATION RESPONSE
  ___
RadioLinkReconfigurationResponse ::= SEQUENCE {
                                                 {{RadioLinkReconfigurationResponse-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
                                                                                                    OPTIONAL,
   . . .
```

241 3GPP TS 25.433 version 3.3.0 Release 1999 RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } id-RL-InformationResponseList-RL-ReconfRsp CRITICALITY ignore RL-InformationResponseList-RL-ReconfRsp { ID TYPE PRESENCE optional } CRITICALITY ignore ID id-CriticalityDiagnostics TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { RL-InformationResponseList-RL-ReconfRsp ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationResponseItemIE-RL-ReconfRsp} } RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= { { TD 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, ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfRsp }} DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= { { ID id-DCH-InformationResponseListIE-RL-ReconfRsp CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfRsp PRESENCE mandatory } } DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfRsp DCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE { dCH-ID DCH-ID, bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,

} ....

DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

. . . }

\*\*\*\*\* Ommited ASN.1 \*\*\*\*\*\*