TSG RAN Meeting #22 Maui, USA, 9 - 12 December 2003 RP-030695

Title CRs (Rel-5 only) to TS 25.423 and TS 25.433 on Unsynchronised RL

Reconfiguration for HSDPA

Source TSG RAN WG3

Agenda Item 7.4.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-031842	25.423	5.7.0	5.8.0	REL-5	889	2	F	Unsynchronised RL Reconfiguration for HSDPA	HSDPA-IubIur
R3-031782	25.433	5.6.0	5.7.0	REL-5	939	1	F	Unsynchronised RL Reconfiguration for HSDPA	HSDPA-IubIur

Note: These 2 CRs were considered as 'technically correct' in RAN3 (instead of being 'agreed') as there was no consensus (Nokia objected and considered CRs just for REL-6). RAN #22 is asked to decide about the release.

3GPP TSG-RAN3 Meeting #39 San Diego, US, 17-21 November 2003

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		CHANCE DECLIES	-			CR-Form-v7
		CHANGE REQUEST				
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Work item code:	ж	HSDPA-Iubiur		Date: #	20/11/2003	3
Category:	æ	F	Role	ease: #	REL-5	
Category.	00	Use one of the following categories:			the following i	aleases.
		F (correction)		2	(GSM Phase	
		A (corresponds to a correction in an earlier releas		R96	(Release 199	
		B (addition of feature),		R97	(Release 199	,
		C (functional modification of feature)		R98	(Release 199	,
		D (editorial modification)			(Release 199	•
		Detailed explanations of the above categories can			(Release 4)	,
		be found in 3GPP <u>TR 21.900</u> .		Rel-5	(Release 5)	
		_		Rel-6	(Release 6)	

Reason for change:

Currently all HSDPA-specific info related to establishment, deleting or modification of HS-DSCH channels is conveyed in two procedures:

- 1) RL Setup, and
- 2) Synchronised RL Rcfg Preparation.

This CR proposes to allow for using the Unsynchronised RL Rcfg procedure for the same purpose.

 Protocol ID for id-HSDSCH-Information-to-Modify-Unsynchronised allocated by the RNSAP rapporteur

Rev 1:

- New information element for HS-DSCH MAC-d Flows To Delete IE, which is common to both FDD and TDD, and to both RL RCFG PREPARE and RL RCFG REQUEST
- Correction to erroneous references in HS-DSCH Information To Modify Unsynchronised IE
- Erroneous line (PDSCH) in ASN.1 deleted

Rev 0:

- Inclusion of HS-DSCH FDD Information IE, HS-DSCH Information To Modify Unsynchronised IE (new), HS-DSCH MAC-d Flows Information IE (defined in a linked CR) and HS-DSCH MAC-d Flows To Delete IE (defined a in linked CR) in RL RCFG REQUEST message
- Inclusion of HS-DSCH Information Response IE in the RL RCFG RESPONSE

message.

- Some procedural text is modified accordingly. The procedural text is modelled according to the procedural text for the Synchronised RL Rcfg Preparation procedure (linked CR), with the following exception:
 - the Unsynchronised RL Rcfg procedure cannot be used for modifying the following parameters: MAC-hs Window Size IE, T1 IE, MAC-d PDU Size Index IE, CQI Feedback Cycle k IE, CQI Repetition Factor IE, ACK-NACK Repetition Factor IE, HS-SCCH Code Change Grant IE and Measurement Power Offset IE.
- Three abnormal conditions added in Synchronised RL Rcfg procedure
- ASN.1 modified accordingly

Impact Analysis:

This CR has isolated impact with the previous version of the specification (same release) because HSDPA only is affected.

This CR has an impact under functional point of view.

The impact can be considered isolated because the change affects one function namely HSDPA.

Consequences if not approved:

X A major omission will remain in the specification.

Clauses affected:	8 8.3.7.2; 8.3.7.4; 9.1.16.1; 9.1.16.2; 9.1.17.1; 9.1.17.2; 9.2.1. x1 (new); 9.3.3; 9.3.4; 9.3.6							
Other specs Affected:	Y N X Other core specifications							
Other comments:	# Linked to CR 888 (definition of HS-DSCH MAC-d Flows Information IE in 9.2.1.X and of HS-DSCH MAC-d Flows To Delete IE in 9.2.1.XX, same reference is reused in both CRs)							

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. 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 ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 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.

8.3.7 Unsynchronised Radio Link Reconfiguration

8.3.7.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

The procedure is used when there is no need to synchronise the time of the switching from the old to the new radio link configuration in the cells used by the UE-UTRAN connection within the DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.7.2 Successful Operation

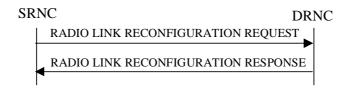


Figure 14: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

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

Upon receipt, the DRNS 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

The DRNS shall prioritise resource allocation for the RL to be modified according to Annex A.

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Modify* IEs, then the DRNS shall treat them as follows:

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs as a set of co-ordinated DCHs. The DRNS 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 to be modified, the DRNS 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 to be modified, the DRNS 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 to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Frame Handling Priority* IE, the DRNS 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 DRNS once the new configuration has been activated.
- If the *DCH Specific Info* IE includes the *Traffic Class* IE, the DRNC should use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [FDD If the *DRAC Control* IE is present and set to "requested" in *DCHs to Modify* IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link supported by a cell in which DRAC is active.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Add* IEs, then the DRNS shall treat them each as follows:

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCHs To Add* IE includes multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if all of them can be in the new configuration.
- [FDD For each DCH which does not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER

is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD - If no Transport channel BER is available for the selected DCH, the DRNS shall use 0 for the QE, ref. [4].]

- The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- The *Traffic Class* IE should be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.
- The DRNS 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 DRNS 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 DRNS 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 *DRAC Control* IE is set to "requested" in *DCH Specific Info* IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link supported by a cell in which DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Delete* IEs, the DRNS shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

[FDD - Physical Channel Modification:]

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

- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE for the DL, the DRNS 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 for the DL, the DRNS shall apply the new TFCI Signalling Mode in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, and if the *Downlink Compressed Mode Method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNC shall include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message, without changing any of the DL Channelisation Codes or DL Scrambling Codes, indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[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, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information To Modify* IEs or /*DL CCTrCH Information To Modify* Ies which contain a *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value(s) to the referenced CCTrCH. Otherwise the DRNS shall continue to apply the previous value(s) specified for this CCTrCH.]

[1.28Mcps TDD - If the *UL CCTrCH To Modify* IE includes *UL SIR Target* IE, the DRNS shall apply this value as the new configuration and use it for the UL inner loop power control according [12] and [22].]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information To Delete* IEs or *DL CCTrCH Information To Delete* IEs, the DRNS shall not include the referenced CCTrCH in the new configuration.]

DL Power Control:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE and the power balancing is active, the DRNS shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the *DL Reference Power Information* IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[1.28Mcps TDD - If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC shall use the indicated values of *Uplink synchronisation stepsize* IE and *Uplink synchronisation frequency* IE when evaluating the timing of the UL synchronisation.]

[1.28Mcps TDD - Uplink Timing Advance Control LCR]:

[1.28Mcps TDD - The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message, if the Uplink Timing Advance Control parameters have been changed.]

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Support Of Dedicated Pilots For Channel Estimation* IE, the DRNC shall assume that dedicated pilots may be used for channel estimation for DCH or DSCH.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *UE Support Of Dedicated Pilots For Channel Estimation Of HS-DSCH* IE, the DRNC shall assume that dedicated pilots may be used for channel estimation for HS-DSCH.]

HS-DSCH Setup:

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

- The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information* Response IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message.
- The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The DRNC shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK

 RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being established, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset*IE in the *HS-DSCH Information* IE, then the DRNS may use this value to determine the HS-SCCH power. The

 HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

Serving HS-DSCH Radio Link Change:

The Unsynchronised Radio Link Reconfiguration procedure shall not be used for Serving HS-DSCH Radio Link Change.

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To Modify Unsynchronised* IE. then:

- The DRNC shall include the *HS-DSCH Initial Capacity Allocation* IE for each HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32].
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Traffic Class* IE in the *HS-DSCH Information To Modify Unsynchronised* IE for a specific HS-DSCH MAC-d flow, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE in the *HS*
 DSCH Information IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Oueue.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, then the DRNS shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify Unsynchronised*IE, the DRNS may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *TDD ACK NACK Power*Offset IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the DRNS shall use the indicated power offset in the new configuration.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the UE Context, then the DRNC shall delete the HS-DSCH configuration from the UE Context and release the HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d Flows To Add* IE, then:

- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Traffic Class* IE in the *HS-DSCH MAC-d Flows To Add* IE for a specific HS-DSCH MAC-d flow, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B.
- The DRNC shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being added, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32].

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

General:

If the requested modifications are allowed by the DRNS, and if the DRNS has successfully allocated the required resources and changed to the new configuration, the DRNC shall respond to the SRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Specific DCH Information* IE, <u>HS-DSCH Information IE</u>, <u>HS-DSCH Information To Modify Unsynchronised IE</u> or <u>HS-DSCH MAC-d Flows To Add IE</u>, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for any Transport Channel <u>or HS-DSCH MAC-d flow</u> being added, or any Transport Channel <u>or HS-DSCH MAC-d flow</u> being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response*HERADIO LINK RECONFIGURATION RESPONSE message for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in [4], subclause 5.10.1.

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iur interface, the DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE only for one of the DCHs in the set of co-ordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the DRNS, the DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message for only one of the combined Radio Links.

Any allowed rate for the uplink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

Any allowed rate for the downlink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link when these values are changed.

[FDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH of the RL except during compressed mode, when the δP_{curr} , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[3.84 Mcps TDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the new value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum*

DL TX Power IE/CCTrCH Maximum DL TX Power IE or lower than indicated by the appropriate Minimum DL TX Power IE/CCTrCH Minimum DL TX Power IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the new value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* within the *DL Timeslot Information LCR* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE on any DL DPCH within each timeslot of the RL.]

8.3.7.3 Unsuccessful Operation

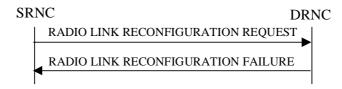


Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the DRNS cannot allocate the necessary resources for all the new DCHs in a set of co-ordinated DCHs requested to be added, it shall reject 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 DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

Typical cause values are:

Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- CM not Supported.

Miscellaneous Causes:

- Control Processing Overload;
- Not enough User Plane Processing Resources.

8.3.7.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed, and the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

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 DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure, and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

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

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Individual DL Reference Power Information* IE, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Common DL Reference Power* IE, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE., and not both are present for a transport bearer intended to be established, the DRNC shall reject the Unsynchronised Radio Link Reconfiguration procedure, and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the DRNS, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

9.1.16 RADIO LINK RECONFIGURATION REQUEST

9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	.,
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the	_	,
				UL.		
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	ı	
>TFCI Signalling Mode	0		9.2.2.46		ı	
>Limited Power Increase	0		9.2.2.21A		_	
DCHs To Modify	0		FDD DCHs To Modify		YES	reject
			9.2.2.13C			
DCHs To Add	0		DCH FDD		YES	reject
			Information 9.2.2.4A			,
DCHs to Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofDCHs>				
>DCH ID	M		9.2.1.16		_	
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
RL Information		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	M		9.2.1.49		1	
>RL Specific DCH Information	0		9.2.1.49A		ı	
DL Reference Power Information	0		9.2.2.10C		YES	ignore
UE Support Of Dedicated Pilots For Channel Estimation	0		9.2.2.50A		YES	ignore
UE Support Of Dedicated Pilots For Channel Estimation Of HS-DSCH	0		9.2.2.50B		YES	ignore
HS-DSCH Information	<u>O</u>		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify Unsynchronised	<u>O</u>		9.2.1. <mark>x1</mark>		YES	<u>reject</u>
HS-DSCH MAC-d Flows To Add	<u>O</u>		HS-DSCH MAC-d Flows Information 9.2.1.X		<u>YES</u>	<u>reject</u>
HS-DSCH MAC-d Flows To Delete	O		9.2.1.XX		<u>YES</u>	<u>reject</u>
HS-PDSCH RL ID	<u>O</u>		RL ID 9.2.1.49		YES	<u>reject</u>

9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH Information To		0 <maxnoof< td=""><td>0.2.1.2</td><td></td><td>EACH</td><td>notify</td></maxnoof<>	0.2.1.2		EACH	notify
Modify		CCTrCHs>			LACIT	riotily
>CCTrCH ID	М	331131132	9.2.3.2		_	
>TFCS	0		9.2.1.63		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH Information to Delete		0 <maxnoof CCTrCHs></maxnoof 			EACH	notify
>CCTrCH ID	M		9.2.3.2		_	
DL CCTrCH Information To Modify		0 <maxnoof CCTrCHs></maxnoof 			EACH	notify
>CCTrCH ID	М	001101102	9.2.3.2		_	
>TFCS	0		9.2.1.63		_	
DL CCTrCH Information to Delete		0 <maxnoof CCTrCHs></maxnoof 	5.2.1.00		EACH	notify
>CCTrCH ID	М	COTTOTISZ	9.2.3.2		_	
DCHs To Modify	0		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
RL Information		01			YES	ignore
>RL ID	М		9.2.1.49		_	
>RL Specific DCH Information	0		9.2.1.49A		_	
UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	M		9.2.3.13J		_	
>Uplink Synchronisation Frequency	М		9.2.3.131		_	
HS-DSCH Information	<u>O</u>		HS-DSCH TDD Information 9.2.3.3aa		YES	<u>reject</u>
HS-DSCH Information To Modify Unsynchronised	<u>O</u>		9.2.1. <mark>x1</mark>		<u>YES</u>	<u>reject</u>
HS-DSCH MAC-d Flows To Add	<u>O</u>		HS-DSCH MAC-d Flows Information 9.2.1.X		<u>YES</u>	<u>reject</u>
HS-DSCH MAC-d Flows To Delete	<u> </u>		9.2.1.XX		<u>YES</u>	<u>reject</u>
HS-PDSCH RL ID	<u>O</u>		RL ID 9.2.1.49		<u>YES</u>	<u>reject</u>

Range Bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDCHs	Maximum number of DCHs for one UE.

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	escription	
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	M		9.2.1.49		_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		_	
>Secondary CCPCH Info	0		9.2.2.37B		-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>HS-DSCH Information Response	<u>O</u>		HS-DSCH FDD Information Response 9.2.2.19b		<u>YES</u>	<u>ignore</u>
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	<u>O</u>		<u>9.2.1.30P</u>		<u>YES</u>	<u>reject</u>
MAC-hs Reset Indicator	<u>O</u>		<u>9.2.1.34B</u>		<u>YES</u>	<u>reject</u>

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

9.1.17.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М	0.4	9.2.1.59		-	•
RL Information Response >RL ID	M	01	9.2.1.49		YES	ignore
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH To Modify LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>DL Timeslot Information LCR		0 <maxno OfTSLCR ></maxno 			_	
>>>>Time Slot LCR	M		9.2.3.12a		_	
>>>>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	_	
>>>>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	_	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH Applicable to 3.84Mcps TDD only	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH Applicable to 3.84Mcps TDD only	YES	ignore
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD only	YES	ignore
>HS-DSCH Information Response	<u>O</u>		HS-DSCH TDD Information Response 9.2.3.3ab		YES	<u>ignore</u>
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	<u>0</u>		9.2.1.30P		YES	<u>reject</u>
MAC-hs Reset Indicator	<u>O</u>		9.2.1.34B		YES	<u>reject</u>

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps
	TDD.

9.2.1.x1 HS-DSCH Information To Modify Unsynchronised

The *HS-DSCH Information To Modify Unsynchronised* IE is used for modification of HS-DSCH information in a UE Context with the Unsynchronised Radio Link Reconfiguration procedure.

IE/Group Name	<u>Presence</u>	<u>Range</u>	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flow Specific Information		0 <maxn oofMACd</maxn 		
		Flows>		
>HS-DSCH MAC-d Flow ID	<u>M</u>		9.2.1.3 <mark>00</mark>	
>Allocation/Retention Priority	<u>O</u>		9.2.1.1	
>Transport Bearer Request Indicator	<u>M</u>		9.2.1.6 <mark>1</mark>	
>Traffic Class	<u>O</u>		9.2.1.58A	
>Binding ID	<u>O</u>		9.2.1. <mark>3</mark>	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	<u>O</u>		9.2.1.6 <mark>2</mark>	Shall be ignored if bearer establishment with ALCAP.
Priority Queue Information		0 <maxn oofPrioQ ueues></maxn 		
>Priority Queue ID	<u>M</u>		9.2.1.4 <mark>5A</mark>	
Scheduling Priority Indicator	<u>O</u>		9.2.1.5 <mark>1A</mark>	
>Discard Timer	<u>O</u>		9.2.1. <mark>19C</mark>	
>MAC-hs Guaranteed Bit Rate	<u>O</u>		9.2.1.3 <mark>4C</mark>	
CQI Power Offset	<u>O</u>		9.2.2. <mark>24b</mark>	For FDD only
ACK Power Offset	<u>O</u>		<u>9.2.2.b</u>	For FDD only
NACK Power Offset	<u>O</u>		<u>9.2.2.2<mark>6</mark>a</u>	For FDD only
HS-SCCH Power Offset	<u>O</u>		9.2.2.1 <mark>9d</mark>	For FDD only
TDD ACK NACK Power Offset	<u>O</u>		9.2.3. <mark>7</mark> 1	For TDD only

9.3.3 PDU Definitions

```
__ *******************
-- PDU definitions for RNSAP.
__ ********************
RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
-- *** text ommitted ***********
   HCS-Prio,
   HSDSCH-FDD-Information,
   HSDSCH-FDD-Information-Response,
   HSDSCH-FDD-Update-Information,
   HSDSCH-TDD-Update-Information,
   HSDSCH-Information-to-Modify,
   HSDSCH-Information-to-Modify-Unsynchronised,
   HSDSCH-MACdFlow-ID,
   HSDSCH-RNTI,
   HSDSCH-TDD-Information,
   HSDSCH-TDD-Information-Response,
   HS-SICH-ID,
   IMSI,
```

```
id-HSDSCH-FDD-Update-Information,
id-HSDSCH-TDD-Update-Information,
id-HSDSCH-Information-to-Modify,
id-HSDSCH-Information-to-Modify-Unsynchronised,
id-HSDSCH-Information-to-Modify-Unsynchronised,
id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd,
id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd,
id-HSDSCH-RNTI,
id-HSDSCH-TDD-Information,
id-HSDSCH-TDD-Information,
id-HSDSCH-TDD-Information-Response,
id-HSDSCH-TDD-Information-Response-LCR,
```

```
__ ******************
-- RADIO LINK RECONFIGURATION REQUEST FDD
    ****************
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkReconfigurationRequestFDD-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
                                                                                                                          OPTIONAL,
-- *** text ommitted **********
RadioLinkReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-ReconfigurationRequestFDD-RL-InformationList CRITICALITY ignore
                                                                              EXTENSION
                                                                                         RL-ReconfigurationRequestFDD-RL-InformationList
   PRESENCE
              optional}|
     ID id-DL-ReferencePowerInformation
                                                CRITICALITY ignore EXTENSION
                                                                              DL-ReferencePowerInformation
                                                                                                                 PRESENCE optional }-
     ID id-HSDSCH-FDD-Information
                                                CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                 PRESENCE optional |
                                                                          EXTENSION HSDSCH-Information-to-Modify-UnsynchronisedPRESENCE
    ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject
optional}|
                                                                       EXTENSION HSDSCH-MACdFlows-Information
    { ID id-HSDSCH-MACdFlows-to-Add
                                                                                                                 PRESENCE optional } |
                                                CRITICALITY reject
     ID id-HSDSCH-MACdFlows-to-Delete
                                                                                                                 PRESENCE optional }
                                                CRITICALITY reject
                                                                       EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                 PRESENCE optional },
    { ID id-HSPDSCH-RL-ID
                                                CRITICALITY reject
                                                                       EXTENSION RL-ID
-- ******************* N E X T     C H A N G E ********************************
```

```
__ ******************
-- RADIO LINK RECONFIGURATION REQUEST TDD
  *****************
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                                                       {{RadioLinkReconfigurationRequestTDD-IEs}},
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}
                                                                                                                 OPTIONAL,
-- *** text ommitted **********
RadioLinkReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
 EXTENSION RL-ReconfigurationReguestTDD-RL-Information
                                                                                                                        PRESENCE
   optional}-
   { ID id-HSDSCH-TDD-Information
                                         CRITICALITY reject
                                                              EXTENSION HSDSCH-TDD-Information
                                                                                                      PRESENCE optional } |
   { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject
                                                                     EXTENSION HSDSCH-Information-to-Modify-UnsynchronisedPRESENCE
optional}|
     ID id-HSDSCH-MACdFlows-to-Add
                                         CRITICALITY reject
                                                              EXTENSION HSDSCH-MACdFlows-Information
                                                                                                      ---PRESENCE optional}
     ID id-HSDSCH-MACdFlows-to-Delete
                                         CRITICALITY reject
                                                              EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                      PRESENCE optional } |
                                                                                                      PRESENCE optional },
    ID id-HSPDSCH-RL-ID
                                         CRITICALITY reject
                                                              EXTENSION RL-ID
   . . .
```

-- ******************** N E X T C H A N G E *******************************

```
__ ********************
-- RADIO LINK RECONFIGURATION RESPONSE FDD
    *******************
RadioLinkReconfigurationResponseFDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{RadioLinkReconfigurationResponseFDD-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{RadioLinkReconfigurationResponseFDD-Extensions}}
                                                                                                                       OPTIONAL,
-- *** text ommitted **********
RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore
                                                                               DL-PowerBalancing-UpdatedIndicator
                                                                                                                   PRESENCE optional}-
     ID id-HSDSCH-FDD-Information-Response
                                           CRITICALITY ignore
                                                                 EXTENSION
                                                                               HSDSCH-FDD-Information-Response
                                                                                                                   PRESENCE optional },
   . . .
DCH-InformationResponseList-RL-ReconfRspFDD
                                                  ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRspFDD} }
DCH-InformationResponseListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= {
   { ID id-DCH-InformationResponse
                                    CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                      PRESENCE mandatory }
DL-CodeInformationList-RL-ReconfRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfRspFDD }}
DL-CodeInformationListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= {
   PRESENCE optional }
RadioLinkReconfigurationResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-RNTI
                                CRITICALITY reject
                                                      EXTENSION HSDSCH-RNTI
                                                                                        PRESENCE optional } |
   { ID id-MAChs-ResetIndicator
                                CRITICALITY reject
                                                      EXTENSION MAChs-ResetIndicator
                                                                                            -PRESENCE optional },
```

```
-- RADIO LINK RECONFIGURATION RESPONSE TDD
__ **********************
RadioLinkReconfigurationResponseTDD ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                    {{RadioLinkReconfigurationResponseTDD-IEs}},
                             ProtocolExtensionContainer {{RadioLinkReconfigurationResponseTDD-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
-- *** text ommitted **********
RL-InformationResponse-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-UL-TimingAdvanceCtrl-LCR
                                              CRITICALITY ignore EXTENSION UL-TimingAdvanceCtrl-LCR
                                                                                               PRESENCE optional }-
   --For 1.28Mcps TDD only
   { ID id-HSDSCH-TDD-Information-Response
                                              CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response
                                                                                                    PRESENCE optional },
-- *** text ommitted **********
RadioLinkReconfigurationResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-HSDSCH-RNTI
                             CRITICALITY reject
                                                 EXTENSION HSDSCH-RNTI
                                                                                 PRESENCE optional } |
    ID id-MAChs-ResetIndicator
                                                                                     -PRESENCE optional },
                             CRITICALITY reject
                                                 EXTENSION MAChs-ResetIndicator
```

```
HSDSCH-Information-to-Modify-Unsynchronised ::= SEQUENCE {
   hSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                               OPTIONAL,
                                              HSDSCH-MACdFlow-Specific-InfoList-to-Modify
   priorityQueueInfotoModifyUnsynchronised
                                              PriorityQueue-InfoList-to-Modify-Unsynchronised
                                                                                                        -OPTIONAL,
   cqiPowerOffset
                                              CQI-Power-Offset
                                                                           OPTIONAL, -- For FDD only
   ackPowerOffset
                                              Ack-Power-Offset
                                                                           OPTIONAL, -- For FDD only
   nackPowerOffset
                                              Nack-Power-Offset
                                                                           OPTIONAL, -- For FDD only
   hsscch-PowerOffset
                                              HSSCCH-PowerOffset
                                                                           OPTIONAL,
                                                                                     -- Only for FDD
   tDDAckNackPowerOffset
                                              TDD-AckNack-Power-Offset
                                                                                     -- For TDD only
                                                                           OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer {
                                                                          HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs } }
   OPTIONAL,
HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
PriorityOueue-Id ::= INTEGER (0..maxNrOfPriorityOueues-1)
PriorityOueue-InfoList ::= SEOUENCE (SIZE (1..maxNrOfPriorityOueues)) OF PriorityOueue-InfoItem
PriorityQueue-InfoItem ::= SEQUENCE {
                                         PriorityQueue-Id,
    priorityQueueId
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    discardTimer
                                        DiscardTimer
                                                                     OPTIONAL.
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
    macdPDU-Size-Index
                                        MACdPDU-Size-Indexlist,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
PriorityOueue-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityOueue-InfoList-to-Modify ::= SEOUENCE (SIZE (1..maxNrOfPriorityOueues)) OF ModifyPriorityOueue
PriorityOueue-InfoItem-to-Add ::= SEOUENCE {
    priorityOueueId
                                         PriorityQueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    discardTimer
                                        DiscardTimer
                                                                                                       OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                       OPTIONAL,
    macdPDU-Size-Index-to-Modify
                                        MACdPDU-Size-Indexlist-to-Modify,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Add-ExtIEs} } 
                                                                                                                      OPTIONAL,
PriorityQueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityQueue-InfoItem-to-Modify ::= SEQUENCE {
    priorityOueueId
                                         PriorityOueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID
                                                                                                                      OPTIONAL,
                                        SchedulingPriorityIndicator
                                                                                                                      OPTIONAL,
    schedulingPriorityIndicator
    † 1
                                                                                                                      OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                      OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize
                                                                                                                      OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
                                        MACdPDU-Size-Indexlist-to-Modify
    macdPDU-Size-Index-to-Modify
                                                                                                                      OPTIONAL,
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
```

```
3GPP TS 25.423 v5.7.0 (2003-09)
                                                                                          CR page 26
PriorityQueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (0..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityQueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
                                        PriorityQueue-Id,
   priorityQueueId
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                                                    OPTIONAL,
   discardTimer
                                        DiscardTimer
                                                                                                                    OPTIONAL,
   mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                    OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs} }
                                                                                                                                     OPTIONAL,
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

id-HSDSCH-Information-to-Modify-Unsynchronised

ProtocolIE-ID ::= 533

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CHANGE REQUEST												C	R-Form-v7
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For <u>HELP</u> on	us	sing this fo	rm, see	e bottom of th	is pag	e or l	look a	at th	e pop-up te.	xt ove	r the % s	sym	bols.
Proposed change	e a	ffects:	UICC a	apps #	М	E	Rac	dio A	ccess Netw	ork X	Core	Net	work
Title:	ж	Unsynch	ronised	RL Reconfig	juratio	n for	HSD	PA					
Source:		RAN3											
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Reason for change:

Currently all HSDPA-specific info related to establishment, deleting or modification of HS-DSCH channels is conveyed in two procedures:

- 1) RL Setup, and
- 2) Synchronised RL Rcfg Preparation.

This CR proposes to allow for using the Unsynchronised RL Rcfg procedure for the same purpose.

Summary of change: Rev 1:

- New information element for HS-DSCH MAC-d Flows To Delete IE, which is common to both FDD and TDD, and to both RL RCFG PREPARE and RL RCFG REQUEST
- Erroneous line (PDSCH) in ASN.1 deleted
- Protocol IE ID for id-HSDSCH-Information-to-Modify-Unsynchronised allocated by the NBAP rapporteur

Rev 0:

- Inclusion of HS-DSCH Information IE, HS-DSCH Information To Modify Unsynchronised IE (new), HS-DSCH MAC-d Flows Information IE (defined in a linked CR) and HS-DSCH MAC-d Flows To Delete IE (defined a in linked CR) in RL RCFG REQUEST message
- Inclusion of HS-DSCH Information Response IE in the RL RCFG RESPONSE message.
- Some procedural text is modified accordingly. The procedural text is modelled according to the procedural text for the Synchronised RL Rcfg Preparation procedure (linked CR), with the following exception:

- the Unsynchronised RL Rcfg procedure cannot be used for modifying any of the following parameters: MAC-hs Window Size IE, T1 IE, MAC-d PDU Size Index IE, CQI Feedback Cycle k IE, CQI Repetition Factor IE, ACK-NACK Repetition Factor IE, HS-SCCH Code Change Grant IE and Measurement Power Offset IE.
- Three abnormal conditions added in Unsynchronised RL Rcfg procedure
- ASN.1 modified accordingly

Impact Analysis:

This CR has isolated impact with the previous version of the specification (same release) because HSDPA only is affected.

This CR has an impact under functional point of view.

The impact can be considered isolated because the change affects one function namely HSDPA.

Consequences if not approved:

A major omission will remain in the specification.

Clauses affected:	8 8.3.5.2; 8.3.5.4; 9.1.47.1; 9.1.47.2; 9.1.48; 9.2.1.x1 (new); 9.3.3; 9.3.4; 9.3.6
Other specs Affected:	Y N X Other core specifications
Other comments:	# Linked to CR 937 (definition of <i>HS-DSCH MAC-d Flows Information</i> IE in 9.2.1.X and of <i>HS-DSCH MAC-d Flows To Delete</i> IE in 9.2.1.XX, same reference is

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked \(\mathbb{H} \) 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 ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 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.

8.3.5 Unsynchronised Radio Link Reconfiguration

8.3.5.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a Node B.

The Unsynchronised Radio Link Reconfiguration procedure is used when there is no need to synchronise the time of the switching from the old to the new configuration in one Node B used for a UE-UTRAN connection with any other Node B also used for the UE-UTRAN connection.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.5.2 Successful Operation

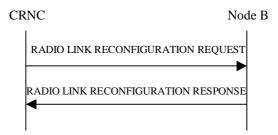


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

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

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Modify* IE then the Node B shall treat them each as follows:

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

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

DCH Addition:

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

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

DCH Deletion:

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

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

[FDD - Physical Channel Modification]:

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

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

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

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the information when building TFCIs in the new configuration.
 - [FDD If the *Length Of TFCI2* IE is included, then the Node B shall apply the length of TFCI (field 2) indicated in the message in the new configuration.]
 - [FDD If the *Length Of TFC12* IE is not included and the *Split Type* IE is present with the value "Hard", then the Node B shall assume the value of the TFCI (field 2) is 5 bits in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

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

[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.]

[1.28Mcps TDD - If the *UL CCTrCH To Modify* IE includes *UL SIR Target* IE, the Node B shall apply this value as the new configuration and use it for the UL inner loop power control according [19] and [21].]

[TDD – UL/DL CCTrCH Deletion]

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

DL Power Control:

[FDD – If the Radio Link Information IE includes the DL Reference Power IE and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the DL Reference Power IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD – If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

RL Information:

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

- [FDD If the *RL Information* IE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH of the Radio Link once the new configuration is being used. During compressed mode, the δP_{curr} , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [FDD If the *RL Information* IE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.]
- [3.84 Mcps TDD If the *CCTrCH Maximum DL Transmission Power* IE and/or the *CCTrCH Minimum DL Transmission Power* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other DCH type CCTrCHs.]
- [3.84 Mcps TDD The maximum power and minimum power for a DSCH type CCTrCH to be modified, shall be determined as follows:
 - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum and maximum power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
 - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum power, however, is subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If *Maximum DL Power* IE and/or *Minimum DL Power* IE are included within *DL Timeslot Information LCR* IE, the the Node B shall apply the values in the new configuration for this timeslot within a DCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [1.28 Mcps TDD If the *CCTrCH Maximum DL Transmission Power* IE and/or the *CCTrCH Minimum DL Transmission Power* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes the *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for other timeslots.]
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- [1.28Mcps TDD If the *RL Information* IE contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

Signalling Bearer Re-arrangement:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Signalling Bearer Request Indicator* IE, the Node B shall, if supported, allocate a new Communication Control Port for the control of the Node B Communication Context and include the *Target Communication Control Port ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

HS-DSCH Setup:

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

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.
- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SCCH Power Offset*IE is included in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Measurement Power*Offset IE in the HS-DSCH Information IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

Serving HS-DSCH Radio Link Change:

The Unsynchronised Radio Link Reconfiguration procedure shall not be used for Serving HS-DSCH Radio Link Change.

HS-DSCH Modification:

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

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [32].
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE in the *HS*
 DSCH Information IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the ACK Power Offset IE, the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To ModifyUnsynchronised

- <u>IE</u>, then the Node B shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To ModifyUnsynchronised*IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *TDD ACK NACK Power*Offset IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use the indicated power offset in the new configuration.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs and if the Serving HS-DSCH Radio Link is in the Node B, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release any existing HS-PDSCH resources.

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

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK

 RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE in the *HS*
 DSCH Information IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

General

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IEs in the *HS-DSCH Information* IE, *HS-DSCH Information To Modify Unsynchronised* IE, *HS-DSCH MAC-d Flows To Add* IE or in the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

If the requested modifications are allowed by the Node B, the Node B has successfully allocated the required resources, and changed to the new configuration, it shall respond to the CRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1.

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH in the set of coordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the Node B, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the combined Radio Links.

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has sent the RADIO LINK RECONFIGURATION RESPONSE message via the old Communication Control Port.

8.3.5.3 Unsuccessful Operation

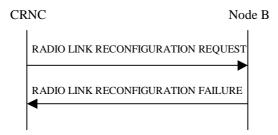


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be set-up, it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s), the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

Radio Network Layer Cause

- CM not supported

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.3.5.4 Abnormal Conditions

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

[FDD – If the *RL Information* IE contains the *DL Code Information* IE and this IE includes *DL Scrambling Code* and *FDD DL Channelisation Code Number* IEs not matching the DL Channelisation code(s) already allocated to the Radio Link identified by *RL ID* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

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

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

[FDD - If the *RL Information* IE includes the *DL Reference Power* IEs, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed

and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the *RL Information* IE includes more than one *DL Reference Power* IEs, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Length Of TFC12* IE but the *TFCI Signalling Option* IE is set to "Normal", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message does not include the *Length Of TFC12* IE but the *Split Type* IE is set to "Logical", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Split Type* IE set to the value "Hard" and the *Length Of TFCI2* IE set to the value "1", "2", "5", "8", "9" or "10", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

9.1.47 RADIO LINK RECONFIGURATION REQUEST

9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the UL.	_	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the DL.	_	
>TFCI Signalling Mode	0		9.2.2.50		_	
>Limited Power Increase	0		9.2.2.18A		_	
DCHs To Modify	0		DCHs FDD To Modify 9.2.2.4E		YES	reject
DCHs To Add	0		DCH FDD Information 9.2.2.4D		YES	reject
DCHs To Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	M		9.2.1.20		_	
Radio Link Information		0 <maxno ofRLs></maxno 			EACH	reject
>RL ID	M		9.2.1.53		_	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>DL Code Information	C-SF/2		FDD DL Code Information 9.2.2.14A		_	
>DL Reference Power	0		DL Power 9.2.1.21	Power on DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	<u>O</u>		HS-DSCH FDD Information 9.2.2.18D		YES	reject
HS-DSCH Information To Modify Unsynchronised	<u>O</u>		9.2.1. <mark>x1</mark>		YES	<u>reject</u>
HS-DSCH MAC-d Flows To Add	<u>O</u>		HS-DSCH MAC-d Flows Information 9.2.1.X		YES	<u>reject</u>
HS-DSCH MAC-d Flows To Delete	0		9.2.1.XX		YES	<u>reject</u>

HS-DSCH-RNTI	C- HSDSCH RadioLink	<u>9.2.1.31J</u>	YES	<u>reject</u>
HS-PDSCH RL ID	<u>O</u>	RL ID 9.2.1.53	YES	<u>reject</u>

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofRLs	Maximum number of RLs for a UE
<u>maxnoofMACdFlows</u>	Maximum number of MAC-d Flows

Condition	Explanation
SF/2	The IE shall be present if the Transmission Gap Pattern Sequence
	Information IE is included and the indicated Downlink Compressed
	Mode method for at least one of the included Transmission Gap Pattern
	Sequence is set to "SF/2".
HSDSCHRadio Link	The IE shall be present if HS-PDSCH RL ID IE is present.

9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
UL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	M		9.2.3.3		_	
>TFCS	0		9.2.1.58		_	
>Puncture Limit	0		9.2.1.50		_	
>UL SIR Target	0		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH To Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
DL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	M		9.2.3.3		_	
>TFCS	0		9.2.1.58		_	
>Puncture Limit	0		9.2.1.50		_	
>DL DPCH To Modify LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>DL Timeslot Information LCR		0 <maxno ofDLtsLCR ></maxno 			-	
>>>Time Slot LCR	M		9.2.3.24A		_	
>>>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>>>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>CCTrCH Maximum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>CCTrCH Minimum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
DL CCTrCH To Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М	-	9.2.3.3		_	
DCHs To Modify	0		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.20			
RL Information		01			YES	reject
>RL ID	M		9.2.1.53			1

>Maximum Downlink Power	0		DL Power 9.2.1.21		-	
>Minimum Downlink Power	0		DL Power 9.2.1.21		_	
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	M		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	M		9.2.3.26G		1	
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	<u>O</u>		HS-DSCH TDD Information 9.2.2.18D		<u>YES</u>	<u>reject</u>
HS-DSCH Information To Modify Unsynchronised	<u>O</u>		9.2.1. <mark>x1</mark>		<u>YES</u>	<u>reject</u>
HS-DSCH MAC-d Flows To Add	<u>O</u>		HS-DSCH MAC-d Flows Information 9.2.1.X		<u>YES</u>	<u>reject</u>
HS-DSCH MAC-d Flows To Delete	O		9.2.1.XX		YES	<u>reject</u>
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	<u>reject</u>
HS-PDSCH RL ID	<u>O</u>		RL ID 9.2.1.53		<u>YES</u>	<u>reject</u>

Range Bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
<u>maxnoofMACdFlows</u>	Maximum number of MAC-d Flows

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

9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.12D		YES	ignore
>HS-DSCH FDD Information Response	<u>O</u>		9.2.2.18E	FDD only	YES	ignore
>HS-DSCH TDD Information Response	<u>O</u>		<u>9.2.3.5G</u>	TDD only	YES	<u>ignore</u>
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		9.2.1.15		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE

9.2.1.x1 HS-DSCH Information To Modify Unsynchronised

The *HS-DSCH Information To Modify Unsynchronised* IE is used for modification of HS-DSCH information in a Node B Communication Context with the Unsynchronised Radio Link Reconfiguration procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFI ows></maxno 		
>HS-DSCH MAC-d Flow ID	M	<u>0W32</u>	9.2.1.311	
>Allocation/Retention Priority	0		9.2.1.1A	
>Transport Bearer Request Indicator	M		9.2.1.62A	
>Binding ID	<u>O</u>		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.
Priority Queue Information		0 <maxno ofPrioQue ues></maxno 		
>Priority Queue ID	M		9.2.1.49C	
>Scheduling Priority Indicator	0		9.2.1.53H	
Discard Timer	O		9.2.1.24E	
>MAC-hs Guaranteed Bit Rate	<u>O</u>		<u>9.2.1.38Aa</u>	
CQI Power Offset	0		9.2.2.4Ca	For FDD only
ACK Power Offset	<u>O</u>		<u>9.2.2.b</u>	For FDD only
NACK Power Offset	0		9.2.2.23a	For FDD only
HS-SCCH Power Offset	0		9.2.2.181	For FDD only
TDD ACK NACK Power Offset	O		9.2.3.18F	For TDD only

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
<u>maxnoofPrioQueues</u>	Maximum number of Priority Queues

-- *************** N E X T C H A N G E *****************************

9.3.3 PDU Definitions

```
-- PDU definitions for NBAP.
__ ******************
NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
-- *** text omitted ***********
   USCH-ID,
   HSDSCH-FDD-Information,
   HSDSCH-FDD-Information-Response,
   HSDSCH-Information-to-Modify,
   HSDSCH-Information-to-Modify-Unsynchronised,
   HSDSCH-MACdFlow-ID,
   HSDSCH-RNTI,
   HSDSCH-TDD-Information,
   HSDSCH-TDD-Information-Response,
   PrimaryCCPCH-RSCP,
   HSDSCH-FDD-Update-Information,
   HSDSCH-TDD-Update-Information,
   UL-Synchronisation-Parameters-LCR,
   TDD-DL-DPCH-TimeSlotFormat-LCR,
   TDD-UL-DPCH-TimeSlotFormat-LCR,
   TDD-TPC-UplinkStepSize-LCR
FROM NBAP-IEs
-- **************** N E X T C H A N G E ****************************
   id-HSDSCH-Information-to-Modify,
   id-HSDSCH-Information-to-Modify-Unsynchronised,
   id-HSDSCH-RearrangeList-Bearer-RearrangeInd,
   id-HSDSCH-RNTI,
   id-HSDSCH-TDD-Information,
   id-HSDSCH-TDD-Information-Response,
   id-HSDSCH-TDD-Information-Response-LCR,
_- ************** NEXT CHANGE ***********************
```

```
__ *******************
-- RADIO LINK RECONFIGURATION REQUEST FDD
     ****************
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{RadioLinkReconfigurationRequestFDD-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
                                                                                                              OPTIONAL,
-- *** text omitted **********
RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SignallingBearerReguestIndicator
                                            CRITICALITY reject
                                                                   EXTENSION —SignallingBearerRequestIndicator
                                                                                                                        -PRESENCE optional
     ID id-HSDSCH-FDD-Information
                                                                   EXTENSION HSDSCH-FDD-Information
                                                                                                                 PRESENCE optional } |
                                            CRITICALITY reject
    ID id-HSDSCH-Information-to-Modify-Unsynchronised
                                                     CRITICALITY reject
                                                                              EXTENSION HSDSCH-Information-to-Modify-Unsynchronised
   PRESENCE optional }|
                                                                   EXTENSION HSDSCH-MACdFlows-Information
    { ID id-HSDSCH-MACdFlows-to-Add
                                            CRITICALITY reject
                                                                                                                 PRESENCE optional } |
    { ID id-HSDSCH-MACdFlows-to-Delete
                                            CRITICALITY reject
                                                                   EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                 PRESENCE optional }
                                                                   EXTENSION HSDSCH-RNTI
                                                                                                                 PRESENCE conditional } |
   { ID id-HSDSCH-RNTI
                                            CRITICALITY reject
   -- The IE shall be present if HS-PDSCH RL ID IE is present.
   { ID id-HSPDSCH-RL-ID
                                            CRITICALITY reject
                                                                                                                 PRESENCE optional },
                                                                   EXTENSION RL-ID
   . . .
```

```
__ *******************
-- RADIO LINK RECONFIGURATION REQUEST TDD
    *****************
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{RadioLinkReconfigurationRequestTDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}
                                                                                                              OPTIONAL,
-- *** text omitted **********
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SignallingBearerReguestIndicator
                                            CRITICALITY reject
                                                                   EXTENSION —SignallingBearerRequestIndicator
                                                                                                                        -PRESENCE optional
     ID id-HSDSCH-TDD-Information
                                                                   EXTENSION HSDSCH-TDD-Information
                                                                                                                 PRESENCE optional } |
                                            CRITICALITY reject
    ID id-HSDSCH-Information-to-Modify-Unsynchronised
                                                     CRITICALITY reject
                                                                              EXTENSION HSDSCH-Information-to-Modify-Unsynchronised
   PRESENCE optional }|
                                                                   EXTENSION HSDSCH-MACdFlows-Information
    { ID id-HSDSCH-MACdFlows-to-Add
                                            CRITICALITY reject
                                                                                                                 PRESENCE optional } |
    { ID id-HSDSCH-MACdFlows-to-Delete
                                            CRITICALITY reject
                                                                   EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                 PRESENCE optional }
                                                                   EXTENSION HSDSCH-RNTI
                                                                                                                 PRESENCE conditional } |
   { ID id-HSDSCH-RNTI
                                            CRITICALITY reject
   -- The IE shall be present if HS-PDSCH RL ID IE is present.
   { ID id-HSPDSCH-RL-ID
                                            CRITICALITY reject
                                                                                                                 PRESENCE optional },
                                                                   EXTENSION RL-ID
   . . .
```

```
__ *******************
-- RADIO LINK RECONFIGURATION RESPONSE
  RadioLinkReconfigurationResponse ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{RadioLinkReconfigurationResponse-IEs}},
   protocolExtensions
                        ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
                                                                                                       OPTIONAL,
-- *** text ommitted ***********
RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore
                                                               EXTENSION ———DL-PowerBalancing-UpdatedIndicator
                                                                                                                    PRESENCE
optional}-
   { ID id-HSDSCH-FDD-Information-Response
                                         CRITICALITY ignore
                                                               EXTENSION HSDSCH-FDD-Information-Response
                                                                                                               PRESENCE optional } |
   -- FDD only
   { ID id-HSDSCH-TDD-Information-Response
                                         CRITICALITY ignore
                                                               EXTENSION HSDSCH-TDD-Information-Response
                                                                                                               PRESENCE optional },
   -- TDD only
   . . .
```

__ *************** NEXT CHANGE ***************************

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
-- *** text omitted ***********
HSDSCH-Information-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                    HSDSCH-MACdFlow-Specific-InfoList-to-Modify OPTIONAL,
    priorityQueueInfotoModify
                                                    PriorityQueue-InfoList-to-Modify
                                                                                        OPTIONAL,
                                                    MAChsReorderingBufferSize
    mAChs-Reordering-Buffer-Size
                                                                                    OPTIONAL,
    cgiFeedback-CycleK
                                                    COI-Feedback-Cycle
                                                                                     OPTIONAL,
                                                                                                -- For FDD only
    cgiRepetitionFactor
                                                    COI-RepetitionFactor
                                                                                     OPTIONAL,
                                                                                                -- For FDD only
    ackNackRepetitionFactor
                                                    AckNack-RepetitionFactor
                                                                                     OPTIONAL,
                                                                                                -- For FDD only
    cqiPowerOffset
                                                    COI-Power-Offset
                                                                                     OPTIONAL,
                                                                                                -- For FDD only
    ackPowerOffset
                                                    Ack-Power-Offset
                                                                                     OPTIONAL,
                                                                                                -- For FDD only
    nackPowerOffset
                                                    Nack-Power-Offset
                                                                                    OPTIONAL,
                                                                                                -- For FDD only
    hsscch-PowerOffset
                                                    HSSCCH-PowerOffset
                                                                                     OPTIONAL,
                                                                                                -- only for FDD
    measurement-Power-Offset
                                                    Measurement-Power-Offset
                                                                                     OPTIONAL,
                                                                                                -- For FDD only
    hSSCCHCodeChangeGrant
                                                    HSSCCH-Code-Change-Grant
                                                                                     OPTIONAL,
    tDDAckNackPowerOffset
                                                    TDD-AckNack-Power-Offset
                                                                                     OPTIONAL,
                                                                                                -- For TDD only
    iE-Extensions
                                                    ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs} } 
HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
   hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                                     OPTIONAL,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    bindingID
                                        BindingID
                                                                                     OPTIONAL.
    transportLayerAddress
                                        TransportLayerAddress
                                                                                     OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs} }
```

```
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HSDSCH-Information-to-Modify-Unsynchronised ::= SEOUENCE {
   hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                 HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                              OPTIONAL,
   priorityQueueInfotoModifyUnsynchronised
                                                 PriorityQueue-InfoList-to-Modify-Unsynchronised
                                                                                                              OPTIONAL,
   cqiPowerOffset
                                                 CQI-Power-Offset
                                                                                                              OPTIONAL,
                                                                                                                        -- For FDD only
   ackPowerOffset
                                                 Ack-Power-Offset
                                                                                                                        -- For FDD only
                                                                                                              OPTIONAL,
   nackPowerOffset
                                                 Nack-Power-Offset
                                                                                                              OPTIONAL, -- For FDD only
   hsscch-PowerOffset
                                                 HSSCCH-PowerOffset
                                                                                                              OPTIONAL, -- For FDD only
    tDDAckNackPowerOffset
                                                 TDD-AckNack-Power-Offset
                                                                                                              OPTIONAL,
                                                                                                                        -- For TDD only
   iE-Extensions
                                                 ProtocolExtensionContainer -
                                                                             { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs} }
                                                                                                                                    OPTIONAL,
HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
   . . .
HSDSCH-FDD-Information-Response ::= SEQUENCE {
   hsDSCH-MACdFlow-Specific-InformationResp
                                                 HSDSCH-MACdFlow-Specific-InformationResp,
   hsSCCH-Specific-Information-ResponseFDD
                                                 HSSCCH-Specific-InformationRespListFDD,
   hARQ-MemoryPartitioning
                                                 HARQ-MemoryPartitioning,
   iE-Extensions
                                                 ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
HSDSCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
PriorityOueue-Id ::= INTEGER (0..maxNrOfPriorityOueues-1)
PriorityOueue-InfoList ::= SEOUENCE (SIZE (1..maxNrOfPriorityOueues)) OF PriorityOueue-InfoItem
PriorityQueue-InfoItem ::= SEQUENCE {
                                         PriorityQueue-Id,
    priorityQueueId
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    discardTimer
                                        DiscardTimer
                                                                     OPTIONAL.
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
    macdPDU-Size-Index
                                        MACdPDU-Size-Indexlist,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
PriorityOueue-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityOueue-InfoList-to-Modify ::= SEOUENCE (SIZE (1..maxNrOfPriorityOueues)) OF ModifyPriorityOueue
PriorityOueue-InfoItem-to-Add ::= SEOUENCE {
    priorityOueueId
                                         PriorityQueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    discardTimer
                                        DiscardTimer
                                                                                                       OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                       OPTIONAL,
    macdPDU-Size-Index-to-Modify
                                        MACdPDU-Size-Indexlist-to-Modify,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Add-ExtIEs} } 
                                                                                                                      OPTIONAL,
PriorityQueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityQueue-InfoItem-to-Modify ::= SEQUENCE {
    priorityOueueId
                                         PriorityOueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID
                                                                                                                      OPTIONAL,
                                        SchedulingPriorityIndicator
                                                                                                                      OPTIONAL,
    schedulingPriorityIndicator
    † 1
                                                                                                                      OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                      OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize
                                                                                                                      OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
                                        MACdPDU-Size-Indexlist-to-Modify
    macdPDU-Size-Index-to-Modify
                                                                                                                      OPTIONAL,
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
```

```
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PriorityQueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityQueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
                                       PriorityQueue-Id,
   priorityQueueId
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                                                                     OPTIONAL,
   discardTimer
                                        DiscardTimer
                                                                                                                                     OPTIONAL,
   mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                                     OPTIONAL,
   iE-Extensions
                                       ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs}
                                                                                                                                     OPTIONAL,
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

-- *************** N E X T C H A N G E ************************

9.3.6 Constant Definitions

```
-- Constant definitions
****************
NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   ProcedureCode,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
/* text omitted ***************/
      -- IEs
__ *********************
id-AICH-Information
                                                              ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd
                                                              ProtocolIE-ID ::= 1
/* text omitted *************/
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD
                                                              ProtocolIE-ID ::= 575
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD
                                                              ProtocolIE-ID ::= 576
\verb|id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD|\\
                                                              ProtocolIE-ID ::= 577
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD
                                                              ProtocolIE-ID ::= 578
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD
                                                              ProtocolIE-ID ::= 579
id-Initial-DL-Power-TimeslotLCR-InformationItem
                                                              ProtocolIE-ID ::= 580
id-Maximum-DL-Power-TimeslotLCR-InformationItem
                                                              ProtocolIE-ID ::= 581
id-Minimum-DL-Power-TimeslotLCR-InformationItem
                                                              ProtocolIE-ID ::= 582
id-HS-DSCHProvidedBitRate
                                                              ProtocolIE-ID ::= 583
id-HS-DSCHProvidedBitRateValue
                                                              ProtocolIE-ID ::= 584
id-HS-DSCHRequiredPower
                                                              ProtocolIE-ID ::= 585
id-HS-DSCHRequiredPowerValue
                                                              ProtocolIE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission ProtocolIE-ID ::= 587
id-HS-SICH-Reception-Quality
                                                              ProtocolIE-ID ::= 588
id-HS-SICH-Reception-Quality-Measurement-Value
                                                              ProtocolIE-ID ::= 589
id-HSSICH-Info-DM-Rprt
                                                              ProtocolIE-ID ::= 590
```

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id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 591
id-HSSICH-Info-DM-Rsp	ProtocolIE-ID ::= 592
id-Best-Cell-Portions-Value	ProtocolIE-ID ::= 593
id-Primary-CPICH-Usage-for-Channel-Estimation	ProtocolIE-ID ::= 594
id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 595
id-NumberOfReportedCellPortion	ProtocolIE-ID ::= 596
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 599
id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 602
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 615

END