TSG RAN Meeting #28 Quebec, Canada, 01 - 03 June 2005 Title CRs (Rel-5 & Rel-6) for the removal of DSCH (FDD mode)

SourceTSG RAN WG3Agenda Item7.7.6

RAN3 Tdoc	Spec	CR	Rev	Cat	curr. Vers.	new Vers.	Rel	Work item	Title
R3-050612	25.401	98		С	5.9.0	5.10.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050613	25.401	99		С	6.5.0	6.6.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050614	25.402	47		С	5.3.0	5.4.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050615	25.402	48		С	6.2.0	6.3.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050616	25.420	53		С	5.2.0	5.3.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050617	25.420	54		С	6.3.0	6.4.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050620	25.424	32		С	5.4.0	5.5.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050621	25.424	33		С	6.1.0	6.2.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050622	25.425	96		С	5.7.0	5.8.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050623	25.425	97		С	6.1.0	6.2.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)

RP-050222

RAN3 Tdoc	Spec	CR	Rev	Cat	curr. Vers.	new Vers.	Rel	Work item	Title
R3-050626	25.430	62		С	5.4.0	5.5.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050627	25.430	63		С	6.4.0	6.5.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050630	25.434	35		С	5.4.0	5.5.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050631	25.434	36		С	6.1.0	6.2.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050722	25.435	139	1	С	5.7.0	5.8.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050723	25.435	140	1	С	6.1.0	6.2.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050724	25.427	107	1	С	5.4.0	5.5.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050725	25.427	108	1	С	6.2.0	6.3.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050741	25.931	37		С	5.1.0	5.2.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050742	25.931	38		С	6.1.0	6.2.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050791	25.423	1068	1	С	5.13.0	5.14.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050792	25.423	1069	1	С	6.5.0	6.6.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050793	25.433	1113	1	С	5.12.0	5.13.0	Rel-5	TEI5	Feature clean-up: Removal of DSCH (FDD mode)
R3-050794	25.433	1114	1	С	6.5.0	6.6.0	Rel-6	TEI5	Feature clean-up: Removal of DSCH (FDD mode)

			(CHANGE	REQ	UE	ST			С	R-Form-v7.1
æ		25.401	CR	098	жrev	-	ж	Current vers	ion:	5.9.0	ж
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the X symbols.											
Proposed change affects: UICC apps# ME Radio Access Network X Core Network											
Title:	ж	Feature c	<mark>lean-u</mark>	p: Removal of	DSCH (F	DD n	node)				
Source:	ж	RAN3									
Work item code:	ж	TEI5						Date: ೫	09/	05/2005	
Category:		Use <u>one</u> of F (con A (con B (add C (fun D (edit	rection) respond lition of ctional torial m blanatio	ds to a correctio feature), modification of f odification) ns of the above	n in an ea feature)		lease	R97 R98 R99 Rel-4 Rel-5	(GSN (Rele (Rele (Rele (Rele (Rele (Rele	, ,	pases:

Reason for change: #	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.
Summary of change: \#	DSCH is removed from the specifications for the FDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.
Consequences if % not approved:	The obsolete DSCH feature will remain in the specifications.

Clauses affected:	೫ <mark>6.1.7, 6.1.8.1, 11.2, 11.2.5.</mark>	
Other specs	Y N X Other core specifications	\$\$\\$\$25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435\$

affected:	XTest specificationsXO&M Specifications	34.108, 34.123
Other comments:	¥	

How to create CRs using this form:

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

6.1.7 UE Identifiers

Radio Network Temporary Identities (RNTI) are used as UE identifiers within UTRAN/GERAN Iu mode and in signalling messages between UE and UTRAN/GERAN Iu mode.

Six types of RNTI exist:

1) Serving RNC/BSS RNTI	(s-RNTI);
2) Drift RNC/BSS RNTI	(d-RNTI);
3) Cell RNTI	(c-RNTI);
4) UTRAN/GERAN RNTI	(u-RNTI);
5) <u>TDD – DSCH RNTI</u>	(DSCH-RNTI)];
6) HS-DSCH RNTI	(HS-DSCH RNTI);

s-RNTI is used:

- by UE to identify itself to the Serving RNC/BSS;
- by SRNC/SBSS to address the UE/MS;
- by DRNC/DBSS to identify the UE to Serving RNC.

s-RNTI is allocated for all UEs having a RRC connection, it is allocated by the Serving RNC/BSS and it is unique within the Serving RNC/BSS. s-RNTI is reallocated always when the Serving RNC/BSS for the RRC connection is changed.

d-RNTI is used:

- by serving RNC/BSS to identify the UE to Drift RNC/BSS.

NOTE: The d-RNTI is never used on Uu.

d-RNTI is allocated by drift RNC/BSS upon drift UE contexts establishment and it shall be unique within the drift RNC/BSS. Serving RNC/BSS shall know the mapping between s-RNTI and the d-RNTIs allocated in Drift RNCs/BSSs for the same UE. Drift RNC/BSS shall know the s-RNTI and SRNC-ID related to existing d-RNTI within the drift RNC/BSS.

c-RNTI is used:

- by UE to identify itself to the controlling RNC;
- by controlling RNC to address the UE.

c-RNTI is allocated by controlling RNC upon UE accessing a new cell. C-RNTI shall be unique within the accessed cell. Controlling RNC shall know the d-RNTI associated to the c-RNTI within the same logical RNC (if any).

u-RNTI

The u-RNTI is allocated to an UE having a RRC connection and identifies the UE within UTRAN/GERAN Iu mode.

u-RNTI is composed of:

- SRNC identity;
- s-RNTI.

[TDD – DSCH-RNTI is used:]

- [TDD – by controlling RNC to address the UE on the DSCH [TDD–and USCH].

[TDD – DSCH-RNTI is allocated by controlling RNC upon UE establishing a DSCH [TDD—or USCH] channel. DSCH-RNTI shall be unique within the cell carrying the DSCH [TDD—and/or USCH]. [FDD—DSCH-RNTI is used as UE identifier in the MAC-c/sh header over DSCH. It is used only in the downlink.] [TDD—DSCH-RNTI is used as UE identifier in RRC messages concerning DSCH and USCH allocations and is used in both the downlink and uplink].]

HS-DSCH RNTI is used:

- for the UE specific CRC in HS-SCCH and HS-PDSCH.

HS-DSCH RNTI is allocated by controlling RNC upon UE establishing a HS-DSCH channel. HS-DSCH RNTI shall be unique within the cell carrying the HS-DSCH.

Each RNC has a unique identifier within the UTRAN part of the PLMN, denoted by RNC identifier (RNC-ID). This identifier is used to route UTRAN interface messages to correct RNC. RNC-ID of the serving RNC together with the s-RNTI is a unique identifier of the UE in the UTRAN part of the PLMN.

6.1.7.1 Usage of RNTI

u-RNTI is used as a UE identifier for the first cell access (at cell change) when a RRC connection exists for this UE and for UTRAN originated paging including associated response messages. RNC-ID is used by Controlling RNC/BSS to route the received uplink messages towards the Serving RNC/BSS.

NOTE: For the initial access a unique core network UE identifier is used.

c-RNTI is used as a UE identifier in all other DCCH/DTCH common channel messages on air interface.

6.1.8 Identifiers for dedicated resources within UTRAN

6.1.8.1 Radio Network Control Plane identifiers

Each addressable object in each reference point has an application part level identifier. This identifier is allocated autonomously by the entity responsible for initiation of the setup of the object. This application part identifier will be used as a reference to the object that is setup. Both ends of the reference point shall memorise the AP Identifier during the lifetime of the object. Application part identifier can be related to a specific Transport Network identifier and that relationship shall also be memorised by both ends.

Table 1 lists the basic AP level identifiers in each reference point.

Object	Identifier	Abbreviation	Valid for
Radio Access Bearer	Radio Access Bearer ID	RAB-ID	lu
Dedicated Transport channel	DCH-ID	DCH-ID	lur, lub
[TDD – Downlink Shared Channel]	DSCH-ID	DSCH-ID	lur, lub
[TDD <u>–</u> Uplink Shared Channel]	USCH-ID	USCH-ID	lur, lub

11.2 Protocol Model (Informative)

The following subclause is a informative subclause which aim is to provide an overall picture of how the MAC layer is distributed over Uu, Iub and Iur for the RACH, FACH, DCH, [TDD – DSCH, USCH] and HS-DSCH-and [TDD USCH].

UNCHANGED TEXT IS REMOVED

11.2.5 DSCH Transport Channel [TDD]

Figure 19 shows the protocol model for the DSCH transport channel when the Controlling and Serving RNC are coincident.

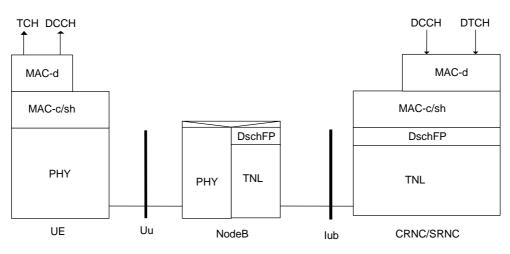


Figure 19: DSCH Co-incident Controlling and Serving RNC

The Shared MAC (MAC-c/sh) entity in the RNC transfers MAC-c/sh PDU to the peer MAC-c/sh entity in the UE using the services of the DSCH Frame Protocol (DSCH FP) entity. The DSCH FP entity adds header information to form a DSCH FP PDU that is transported to the Node B over a transport bearer.

An Interworking Function (IWF) in the Node B interworks the DSCH frame received by DSCH FP entity into the PHY entity. DSCH scheduling is performed by MAC-c/sh in the CRNC.

Figure 20 shows the protocol model for the DSCH transport channel with separate Controlling and Serving RNC. In this case, Iur DSCH Frame Protocol is used to interwork the MAC-c/sh at the Controlling RNC with the MAC-d at the Serving RNC.

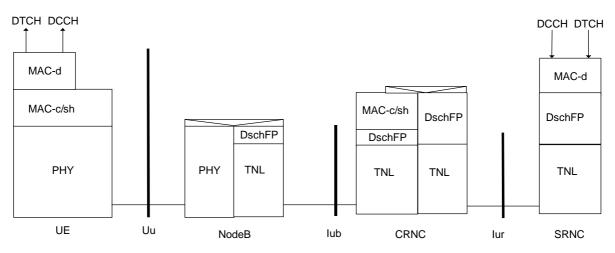


Figure 20: DSCH: Separate Controlling and Serving RNC

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 Reason for change: #
 In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.

 Summary of change: #
 DSCH is removed from the specifications for the FDD mode.

 Consequences if not approved:
 #

 Clauses affected:
 #

 6.1.7, 6.1.8.1, 11.2, 11.2.5.

Clauses allected.	ю 0.1.7, 0.1.0.1, 11.2, 11.2.3.					
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Other specs	жХ	Other core specifications	ж	25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435		
affected:	X	Test specifications X O&M Specifications		34.108, 34.123		
Other comments:	ж					

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5) <u>[TDD – DSCH RNTI</u>	(DSCH-RNTI)];
6) HS-DSCH RNTI	(HS-DSCH RNTI);]

[FDD -

7) E-DCH RNTI (E-RNTI);]

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HS-DSCH RNTI is allocated by controlling RNC upon UE establishing a HS-DSCH channel. HS-DSCH RNTI shall be unique within the cell carrying the HS-DSCH.

[FDD -

E-RNTI is used:

- for the UE/UE group specific CRC in E-AGCH.

E-DCH RNTI is allocated by NodeB upon UE establishing an E-DCH channel. E-DCH RNTI allocated to a UE/UE group shall be unique within the cell carrying the E-DCH.]

Each RNC has a unique identifier within the UTRAN part of the PLMN, denoted by RNC identifier (RNC-ID). This identifier is used to route UTRAN interface messages to correct RNC. RNC-ID of the serving RNC together with the s-RNTI is a unique identifier of the UE in the UTRAN part of the PLMN.

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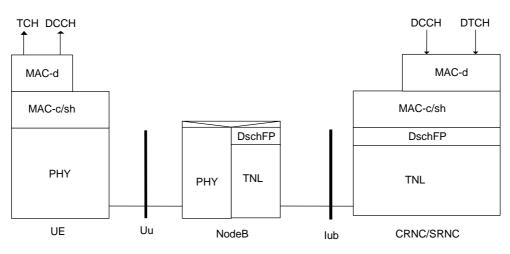


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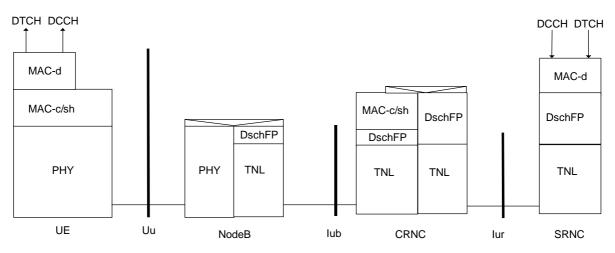


Figure 20: DSCH: Separate Controlling and Serving RNC

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¥	25.402 CR 047 #rev -	・ Current version: 5.3.0 [#]
For <u>HELP</u> or	using this form, see bottom of this page or loo	k at the pop-up text over the
Proposed chang	<i>affects:</i> UICC apps ೫ ME Ra	adio Access Network X Core Network
Title:	Feature clean-up: Removal of DSCH (FDD	mode)
Source:	RAN3	
Work item code:	TEI5	Date:
Category:	 C Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories categories categories is found in 3GPP <u>TR 21.900</u>. 	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999)

Reason for change: ೫	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.
Summary of change: ೫	DSCH is removed from the specifications for the FDD mode.
	 Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.
Consequences if %	The obsolete DSCH feature will remain in the specifications.
not approved:	

Clauses affected:	策 <mark>6.1.1.</mark>	
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Other specs		5.211, 25.212, 25.213, 25.214, 25.301,
		5.302, 25.303, 25.306, 25.321, 25.331,
	2	5.401, 25.402, 25.420, 25.423, 25.424,
	2	5.425, 25.427, 25.430, 25.433, 25.434,
	2	5.435

affected:	XTest specificationsXO&M Specifications	34.108, 34.123
Other comments:	¥	

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6.1.1 RNC-Node B Node Synchronisation

The Node Synchronisation between RNC and Node B can be used to find out the timing reference differences between the UTRAN nodes (RFN in RNC and BFN in Node B). The use is mainly for determining good DL and UL offset values for transport channel synchronisation between RNC and their Node B's. Knowledge of timing relationships between these nodes is based on a measurement procedure called RNC-Node B Node Synchronisation Procedure. The procedure is defined in the user plane protocols for Iub (DCH, DSCH_[TDD], and FACH/PCH) and Iur (DCH).

When the procedure is used from SRNC over the DCH user plane, it allows finding out the actual round-trip-delay a certain service has (as the NODE SYNCHRONISATION control frames are transferred the same way as the DCH frames).

The procedure may also be carried out over a high priority transport bearer (beneficial when used between CRNC and Node Bs for the RNC-Node B Synchronisation purpose). Measurements of node offsets can be made at start or restart as well as during normal operation to supervise the stability of the nodes.

If an accurate Reference Timing Signal is used, the frequency deviation between nodes will be low, but could occur. If no accurate Reference Timing Signal is available, the local node reference oscillator must be relied upon. Then the RNC-Node B Node Synchronisation procedure can be used as a background process to find out the frequency deviation between nodes.

In the RNC-Node B Node Synchronisation procedure, the RNC sends a DL NODE SYNCHRONISATION control frame to Node B containing the parameter T1. Upon reception of a DL NODE SYNCHRONISATION control frame, the Node B shall respond with UL NODE SYNCHRONISATION Control Frame, indicating T2 and T3, as well as T1 which was indicated in the initiating DL Node Synchronisation control frame (see Figure 3).

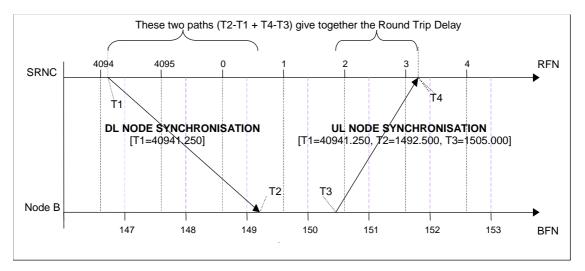


Figure 3: RNC-Node B Node Synchronisation

In case of macrodiversity with recombining in the DRNC, the DL NODE SYNCHRONISATION control frame is duplicated in the DRNC on the different links, while the UL NODE SYNCHRONISATION control frames received from all the Node B's are forwarded transparently to the SRNC (see Figure 4).

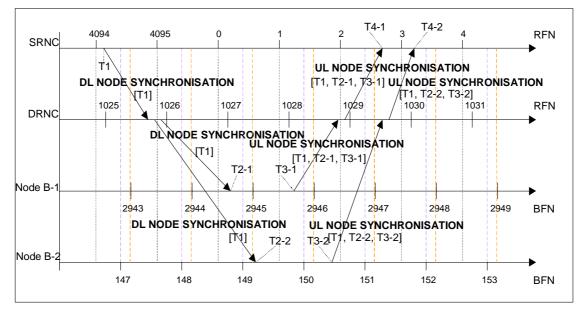


Figure 4: [FDD - RNC-Node B Node Synchronisation during soft handover with selection/recombining in the DRNC]

				(CHANG	ERE	EQ	UE	ST				(CR-Form-v7.1
¥		25	<mark>.402</mark>	CR	048	жre	ev	-	Ħ	Current	vers	ion:	6.2.0	ж
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 Reason for change: #
 In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.

 Summary of change: #
 DSCH is removed from the specifications for the FDD mode.

 Consequences if not approved:
 #

 Clauses effected:
 #

 Clauses effected:
 #

Clauses affected:	ж	6.1.1	•		
	[YN			
Other specs	ж	x	Other core specifications	ж	25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435
affected:		X X	Test specifications O&M Specifications		34.108, 34.123
Other comments:	Ж				

How to create CRs using this form:

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

6.1.1 RNC-Node B Node Synchronisation

The Node Synchronisation between RNC and Node B can be used to find out the timing reference differences between the UTRAN nodes (RFN in RNC and BFN in Node B). The use is mainly for determining good DL and UL offset values for transport channel synchronisation between RNC and their Node B's. Knowledge of timing relationships between these nodes is based on a measurement procedure called RNC-Node B Node Synchronisation Procedure. The procedure is defined in the user plane protocols for Iub (DCH, DSCH_[TDD], and FACH/PCH) and Iur (DCH).

When the procedure is used from SRNC over the DCH user plane, it allows finding out the actual round-trip-delay a certain service has (as the NODE SYNCHRONISATION control frames are transferred the same way as the DCH frames).

The procedure may also be carried out over a high priority transport bearer (beneficial when used between CRNC and Node Bs for the RNC-Node B Synchronisation purpose). Measurements of node offsets can be made at start or restart as well as during normal operation to supervise the stability of the nodes.

If an accurate Reference Timing Signal is used, the frequency deviation between nodes will be low, but could occur. If no accurate Reference Timing Signal is available, the local node reference oscillator must be relied upon. Then the RNC-Node B Node Synchronisation procedure can be used as a background process to find out the frequency deviation between nodes.

In the RNC-Node B Node Synchronisation procedure, the RNC sends a DL NODE SYNCHRONISATION control frame to Node B containing the parameter T1. Upon reception of a DL NODE SYNCHRONISATION control frame, the Node B shall respond with UL NODE SYNCHRONISATION Control Frame, indicating T2 and T3, as well as T1 which was indicated in the initiating DL Node Synchronisation control frame (see Figure 3).

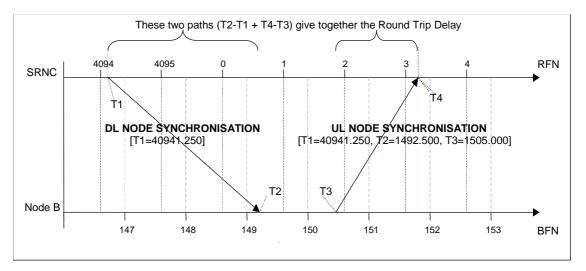


Figure 3: RNC-Node B Node Synchronisation

In case of macrodiversity with recombining in the DRNC, the DL NODE SYNCHRONISATION control frame is duplicated in the DRNC on the different links, while the UL NODE SYNCHRONISATION control frames received from all the Node B's are forwarded transparently to the SRNC (see Figure 4).

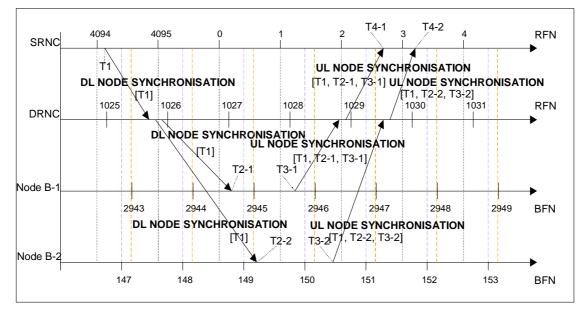


Figure 4: [FDD - RNC-Node B Node Synchronisation during soft handover with selection/recombining in the DRNC]

		CHANGE	EREQ	UEST		(CR-Form-v7.1
æ	25.420	CR <mark>053</mark>	жrev	- *	Current vers	^{ion:} 5.2.0	ж
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Title:	₩ Feature cl	ean-up: Removal of	DSCH (F	DD mode)		
Source:	₩ <mark>RAN3</mark>						
Work item code:	₩ TEI5				<i>Date:</i> ೫	09/05/2005	
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Reason for change: 3	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.
ger of	
Summary of change: #	DSCH is removed from the specifications for the FDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.
Consequences if % not approved:	The obsolete DSCH feature will remain in the specifications.
Clauses affected: %	4.4.4, 5.1, 6.2.1, 6.3.2, 6.4, 7.1, 7.2.4.

	[YN]		
Other specs	æ	X	Other core specifications	Ħ	25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435

affected:	XTest specificationsXO&M Specifications	34.108, 34.123	
Other comments:		or implementation of this CR jointly with e", it is suggested to use the "cleaned up" form the changes approved in CR xxxx	

How to create CRs using this form:

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

4.4.4 Iur DSCH data streams [TDD]

An Iur DSCH data stream corresponds to the data carried on one DSCH transport channel for one UE. A UE may have multiple Iur DSCH data streams.

The Iur interface provides a means of transporting down link MAC-c/sh SDUs. In addition, the interface provides a means to the SRNC for queue reporting and a means for the DRNC to allocate capacity to the SRNC.

5 Functions of the I_{ur} Interface Protocols

5.1 Functional List

The list of functions on the Iur interface is the following:

- 1. Transport Network Management.
- 2. Traffic management of Common Transport Channels:
 - Preparation of Common Transport Channel resources;
 - Paging.
- 3. Traffic Management of Dedicated Transport Channels:
 - Radio Link Setup/ Addition/ Deletion;
 - Measurement Reporting.
- 4. [TDD Traffic Management of Downlink Shared Transport Channels and [TDD Uplink Shared Transport Channels]:
 - Radio Link Setup/ Addition/ Deletion;
 - Capacity Allocation.
 - 5. Measurement reporting for common and dedicated measurement objects.

6.2 Radio Signalling Protocols

6.2.1 RNSAP Protocol

The protocol responsible for providing signalling information across the Iur interface is called the Radio Network Subsystem Application Part (RNSAP). A subset of RNSAP is used over the Iur-g interface.

The RNSAP is terminated by the two RNCs inter-connected via the Iur interface RNSAP Procedure Modules. In addition, the RNSAP is terminated by a RNC and a BSS supporting Iu mode inter-connected via the Iur-g interface.

RNSAP procedures are divided into four modules as follows:

- 1. RNSAP Basic Mobility Procedures;
- 2. RNSAP DCH Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures.

The Basic Mobility Procedures module contains procedures used to handle the mobility within UTRAN as well as to handle mobility in case of UTRAN/GERAN interworking.

The DCH Procedures module contains procedures that are used to handle DCHs, [TDD – DSCH, USCHs] and HS-DSCH and [TDD – USCHs] between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of DCH, [TDD – DSCH, USCH] and HS-DSCH and [TDD – USCH] traffic between corresponding RNSs is not possible.

The Common Transport Channel Procedures module contains procedures that are used to control common transport channel data streams (excluding the DSCH, HS-DSCH and USCH) over Iur interface.

The Global Procedures module contains procedures that are not related to a specific UE. The procedures in this module are in contrast to the above modules involving two peer CRNCs. The procedures in this module are also used in cases involving one RNC and one BSS.

6.3.2 Iur DSCH Frame Protocol [TDD]

There are two types of Iur DSCH FP frames:

- DSCH data frame;
- DSCH control frames.

The contents of the Iur DSCH data frame include:

- MAC-c/sh SDUs;
- User Buffer Status.

The contents of the Iur DSCH control frame include:

- Flow control Information (UL);
- Capacity Request Information (DL).

For a more detailed description of the Iur DSCH frame protocol refer to 'UTRAN Iur Interface User Plane protocols for Common Transport Channel Data Streams' [2].

6.4 Mapping of Frame Protocols onto transport bearers

DCH	One Iur DCH data stream is carried on one transport bearer except in the case of co- ordinated DCHs in which case a set of co-ordinated DCHs are multiplexed onto the same transport bearer.
[TDD - DSCH	One Iur DSCH data stream is carried on one transport bearer.]
HS-DSCH	One Iur HS-DSCH data stream is carried on one transport bearer.
[TDD - USCH	One Iur USCH data stream is carried on one transport bearer.]
RACH/CPCH[FDD]	Multiple RACH/CPCH[FDD] data streams may be carried on one transport bearer.
FACH	Multiple FACH data streams may be carried on one transport bearer.

RACH/CPCH[FDD] and FACH data streams for one UE are carried on same transport bearer.

7 DRNS logical Model over I_{ur}

7.1 Overview

The model in Figure 3 shows the Drift Radio Network System as seen from the SRNC. It is modelled as a «black box» with a set of Radio Links on the Uu side of the box and another set of User Plane access ports on the Iur side of the box. The Radio Links are connected to the Iur user ports via the internal transport mechanisms of the DRNS. Operations for controlling the connections between ports are sent from the SRNC to the DRNC via an Iur Control Plane port.

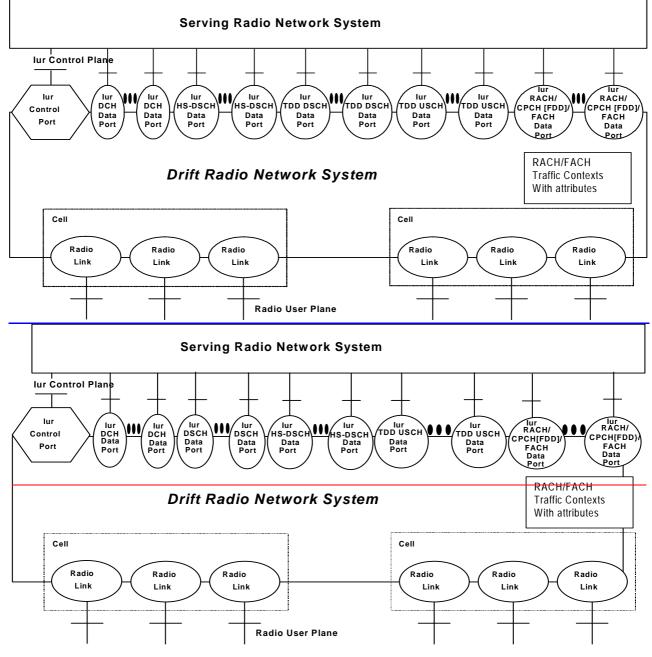


Figure 3: Drift RNS Logical Model

7.2.4 Iur DSCH Data Port [TDD]

One Iur DSCH Data port represents one bi-directional Iur user plane transport bearer. One Iur user plane transport bearer will carry only one DSCH data stream.

¥		<mark>25.420</mark>	CR	054	ж re \	- '	ж	Current vers	ion:	6.3.0	ж
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Proposed chang	ye a	ffects:	UICC a	ipps#	ME[Ra	dio A	ccess Networ	k X	Core Ne	twork
Title:	Ж	Feature of	clean-u	p: Removal of	DSCH	(FDD)	mode)			
Source:	ж	RAN3									
Work item code.	: X	TEI5						<i>Date:</i> ೫	09/	/05/2005	
Category:	[Use <u>one</u> of F (coi A (coi B (ad C (fur D (ed	rrection) rrespond dition of nctional itorial m planatio	ds to a correctio feature), modification of f odification) uns of the above	n in an e feature)			R97 R98 R99 Rel-4 Rel-5 Rel-6	(GSN (Rele (Rele (Rele (Rele (Rele (Rele		ases:

 Reason for change: %
 In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.

 Summary of change: %
 DSCH is removed from the specifications for the FDD mode.

 Consequences if not approved:
 %

 The obsolete DSCH feature will remain in the specifications.

 Clauses affected:
 %

 4.4.4, 5.1, 6.2.1, 6.3.2, 6.4, 7.1, 7.2.4.

	Y	N						
Other specs	ff X	Other core specifications #	25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424,					
			25.425, 25.427, 25.430, 25.433, 25.434,					
			25.435					
affected:	Χ	Test specifications	34.108, 34.123					
		X O&M Specifications						
Other comments:	₩ F	Figure in § 7.1 has been cleaned up. For implementation of this CR jointly with CR xxxx on "Removal of CPCH feature", it is suggested to use the "cleaned up"						
		version of the figure in this CR and perform the changes approved in CR xxxx						
	a	afterwards, if this CR is approved.						

How to create CRs using this form:

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- 3. Traffic Management of Dedicated Transport Channels:
 - Radio Link Setup/ Addition/ Deletion;
 - Measurement Reporting.
- 4. [TDD Traffic Management of Downlink Shared Transport Channels and [TDD—Uplink Shared Transport Channels]:
 - Radio Link Setup/ Addition/ Deletion;
 - Capacity Allocation.
 - 5. Measurement reporting for common and dedicated measurement objects.
 - 6. Information exchange of UTRAN, GERAN and MBMS bearer service information.
 - 7. Tracing of various events related to a UE.
 - 8. MBMS related functions
 - MBMS UE Linking/De-linking
 - MBMS URA linking/De-linking
 - MBMS Channel type Indication

6.2 Radio Signalling Protocols

6.2.1 RNSAP Protocol

The protocol responsible for providing signalling information across the Iur interface is called the Radio Network Subsystem Application Part (RNSAP). A subset of RNSAP is used over the Iur-g interface.

The RNSAP is terminated by the two RNCs inter-connected via the Iur interface RNSAP Procedure Modules. In addition, the RNSAP is terminated by a RNC and a BSS supporting Iu mode inter-connected via the Iur-g interface.

RNSAP procedures are divided into four modules as follows:

- 1. RNSAP Basic Mobility Procedures;
- 2. RNSAP Dedicated Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures;
- 5. RNSAP MBMS Procedures.

The Basic Mobility Procedures module contains procedures used to handle the mobility within UTRAN as well as to handle mobility in case of UTRAN/GERAN interworking.

The Dedicated Procedures module contains procedures that are used to handle DCHs, [FDD – F-DPCH, <u>E-DCH</u>] [TDD – DSCH, <u>USCHs</u>] and HS-DSCH, [FDD E DCH] and [TDD – USCHs] between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of DCH, [FDD – F-DPCH, <u>E-DCH</u>] [TDD – DSCH, <u>USCH</u>] and HS-DSCH, [FDD – DCH] and [TDD – USCH] traffic between corresponding RNSs is not possible.

The Common Transport Channel Procedures module contains procedures that are used to control common transport channel data streams (excluding the DSCH, HS-DSCH, E-DCH and USCH) over Iur interface.

The Global Procedures module contains procedures that are not related to a specific UE. The procedures in this module are in contrast to the above modules involving two peer CRNCs. The procedures in this module are also used in cases involving one RNC and one BSS.

The MBMS Procedures module contains procedures that are specific to MBMS and used for cases that cannot be handled by other modules.

6.3.2 Iur DSCH Frame Protocol [TDD]

There are two types of Iur DSCH FP frames:

- DSCH data frame;
- DSCH control frames.

The contents of the Iur DSCH data frame include:

- MAC-c/sh SDUs;
- User Buffer Status.

The contents of the Iur DSCH control frame include:

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[TDD - DSCH	One Iur DSCH data stream is carried on one transport bearer.]
HS-DSCH	One Iur HS-DSCH data stream is carried on one transport bearer.
[FDD - E-DCH	One Iur E-DCH data stream is carried on one transport bearer. For each E-DCH data stream, a transport bearer must be established over the Iur interface.]
[TDD - USCH	One Iur USCH data stream is carried on one transport bearer.]
RACH/CPCH[FDD]	Multiple RACH/CPCH[FDD] data streams may be carried on one transport bearer.
FACH	Multiple FACH data streams may be carried on one transport bearer.

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7 DRNS logical Model over I_{ur}

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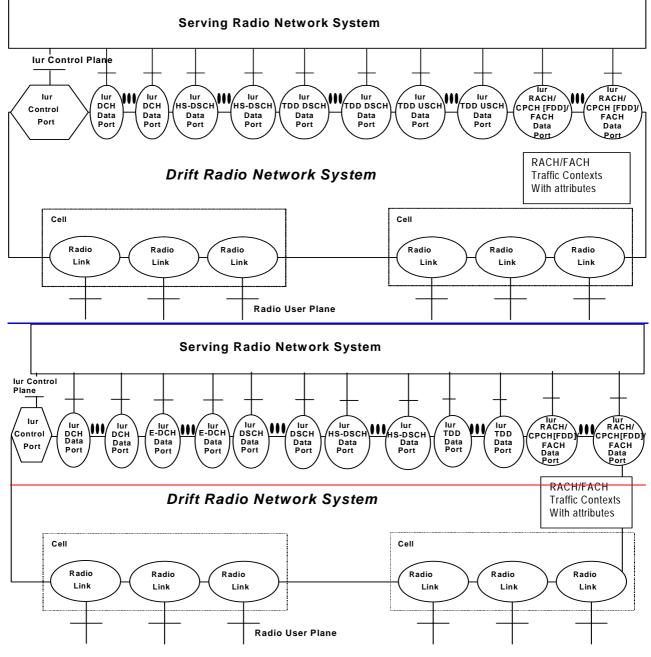


Figure 3: Drift RNS Logical Model

7.2.4 Iur DSCH Data Port [TDD]

One Iur DSCH Data port represents one bi-directional Iur user plane transport bearer. One Iur user plane transport bearer will carry only one DSCH data stream.

			C	CHANGE	REQ	UE	ST			CR-Form-v7.1
¥		<mark>25.423</mark>	CR	1068	жrev	1	ж	Current vers	ion:	<mark>5.13.0</mark> ^ж
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Proposed chang	je a	ffects: U	JICC a	pps#	ME	Rad	dio Ad	ccess Networ	k X	Core Network
Title:	Ж	Feature c	lean-up	o: Removal of	DSCH (F	DD n	node)		
Source:	ж	RAN3								
Work item code:	ж	TEI5						<i>Date:</i> ೫	09/	/05/2005
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Reason for change: #	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.					
Summary of change: Ж	R1: Choice in TFCS is renamed as well as choice tags. Changes related to the inclusion of the <i>TFCI Signalling Mode</i> IE in the RADIO LINK RECONFIGURATION messages are removed.					
	R0: DSCH is removed from the specifications for the FDD mode.					
	Impact Analysis:Impact assessment towards the previous version of the specification (same release):This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode.This CR has an no impact for implementations not supporting this feature.For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view.The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.					
Consequences if % not approved:	The obsolete DSCH feature will remain in the specifications.					
Clauses affected: ೫	5.1, 7, 8.2.2.2, 8.3.1.2, 8.3.1.3, 8.3.1.4, 8.3.2.1, 8.3.2.2, 8.3.2.3, 8.3.4.2, 8.3.4.4, 8.3.7.2, 8.3.7.4, 8.4.2.2, 9.1.3.1, 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.6.1, 9.1.7.1, 9.1.7.2, 9.1.8.1, 9.1.11.1, 9.1.11.2, 9.1.12.1, 9.1.12.2, 9.2.1.26A, 9.2.1.26Aa, 9.2.1.26B, 9.2.1.26Ba, 9.2.1.29, 9.2.1.34, 9.2.1.51A, 9.2.1.63, 9.2.2.D, 9.2.2.13A, 9.2.2.13B,					

		9.2.2		2.5	13G, 9.2.2.13H, 9.2.2.21, 9.2.2.27A, 50A, 9.2.3.x1 (new), 9.2.3.x2 (new), a, 9.3.3, 9.3.4, 9.3.6.
Other specs	ж	YN X	Other core specifications	€	25.211, 25.212, 25.213, 25.214, 25.301,
					25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424,
					25.425, 25.427, 25.430, 25.433, 25.434, 25.435
affected:		X X	Test specifications O&M Specifications		34.108, 34.123
Other comments:	ж				

How to create CRs using this form:

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

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

5.1 RNSAP Procedure Modules

The Iur interface RNSAP procedures are divided into four modules as follows:

- 1. RNSAP Basic Mobility Procedures;
- 2. RNSAP DCH Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures.

The Basic Mobility Procedures module contains procedures used to handle the mobility within UTRAN, within GERAN and between UTRAN and GERAN.

The DCH Procedures module contains procedures that are used to handle DCHs, <u>[TDD – DSCHs</u>, <u>and USCHs] and HS-DSCH</u> between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of DCH, <u>[TDD – DSCH</u>, <u>and USCH] and HS-DSCH</u> traffic between corresponding RNSs is not possible.

The Common Transport Channel Procedures module contains procedures that are used to control common transport channel data streams (excluding the DSCH<u>, HS-DSCH</u> and USCH) over Iur interface.

The Global Procedures module contains procedures that are not related to a specific UE. The procedures in this module are in contrast to the above modules involving two peer CRNCs/CBSSs.

7 Functions of RNSAP

The RNSAP protocol provides the following functions:

- Radio Link Management. This function allows the SRNC to manage radio links using dedicated resources in a DRNS;
- Physical Channel Reconfiguration. This function allows the DRNC to reallocate the physical channel resources for a Radio Link;
- Radio Link Supervision. This function allows the DRNC to report failures and restorations of a Radio Link;
- Compressed Mode Control [FDD]. This function allows the SRNC to control the usage of compressed mode within a DRNS;
- Measurements on Dedicated Resources. This function allows the SRNC to initiate measurements on dedicated resources in the DRNS. The function also allows the DRNC to report the result of the measurements;
- DL Power Drifting Correction [FDD]. This function allows the SRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links;
- DCH Rate Control. This function allows the DRNC to limit the rate of each DCH configured for the Radio Link(s) of a UE in order to avoid congestion situations in a cell;
- CCCH Signalling Transfer. This function allows the SRNC and DRNC to pass information between the UE and the SRNC on a CCCH controlled by the DRNS;
- GERAN Signalling Transfer. This function allows the SBSS and DBSS, the SRNC and DBSS or the SBSS and DRNC to pass information between the UE/MS and the SRNC/SBSS on an SRB2/CCCH controlled by the DBSS/DRNC;
- Paging. This function allows the SRNC/SBSS to page a UE in a URA/GRA or a cell in the DRNS;
- Common Transport Channel Resources Management. This function allows the SRNC to utilise Common Transport Channel Resources within the DRNS (excluding DSCH resources for FDD);
- Relocation Execution. This function allows the SRNC/SBSS to finalise a Relocation previously prepared via other interfaces;
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- DL Power Timeslot Correction [TDD]. This function enables the DRNS to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.
- Measurements on Common Resources. This function allows an RNC/BSS to request from another RNC/BSS to initiate measurements on Common Resources. The function also allows the requested RNC/BSS to report the result of the measurements.
- Information Exchange. This function allows an RNC to request from another RNC the transfer of information. The function also allows the requested RNC to report the requested information.
- Resetting the Iur. This function is used to completely or partly reset the Iur interface.

The mapping between the above functions and RNSAP elementary procedures is shown in the Table 1.

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DL Power Timeslot Correction [TDD] Downlink Power Timeslot Control		
Reset Reset		
	Reset	Reset

Table 1: Mapping between functions and RNSAP elementary procedures

8.2.2 Downlink Signalling Transfer

8.2.2.1 General

The procedure is used by the SRNC to request to the DRNC the transfer of a Uu message on the CCCH in a cell. When used, the procedure is in response to a received Uplink Signalling Transfer procedure.

This procedure shall use the connectionless mode of the signalling bearer.

8.2.2.1.1 Downlink Signalling Transfer for lur-g

The procedure is used by the SRNC/SBSS to request to the DBSS the transfer of an Um message on the SRB2 in a cell.

The procedure is used by the SBSS to request to the DRNC the transfer of a Uu message on the CCCH in a cell.

8.2.2.2 Successful Operation

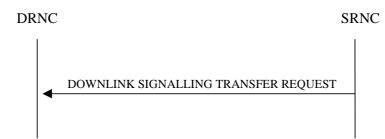


Figure 2: Downlink Signalling Transfer procedure, Successful Operation

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC to the DRNC.

The message contains the Cell Identifier (C-ID) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has no dedicated resources (DCH, [TDD - USCH,] and/or DSCH]) allocated for the UE, the DRNS shall release the D-RNTI, the UE Context and any RACH, [FDD - CPCH,] and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH, [FDD - CPCH,] and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

8.3.1 Radio Link Setup

8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

8.3.1.2 Successful Operation

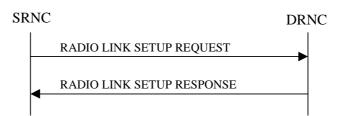


Figure 5: Radio Link Setup procedure: Successful Operation

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific UE-UTRAN connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request establishment of the radio link(s). The Radio Link Setup procedure is initiated with this RADIO LINK SETUP REQUEST message sent from the SRNC to the DRNC.

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

Transport Channels Handling:

DCH(s):

[TDD - If the *DCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DCHs according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

[TDD - If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

[FDD - For each DCH which do 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 *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].

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 shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs.

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

The *Traffic Class* IE may 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.

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

If the *DCH Information* 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 Guaranteed Rate in the uplink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. 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 only 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 Guaranteed Rate in the downlink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. 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 only 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 downlink of the DCH.

[TDD - DSCH(s)]:

[TDD - If the DSCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall establish the requested DSCHs [FDD - on the RL indicated by the PDSCH RL ID IE]. If the Transport Layer Address IE and Binding ID IE are included in the DSCH Information IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DSCH. In addition, the DRNC shall send a valid set of DSCH Scheduling Priority IE and MAC-c/sh SDU Length IE parameters to the SRNC in the RADIO LINK SETUP RESPONSE message. If the PDSCH RL ID IE indicates a radio link in the DRNS, then the DRNC shall allocate a DSCH-RNTI to the UE Context and include the DSCH-RNTI IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - If the DSCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[TDD - The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK SETUP RESPONSE message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in [32].]

[TDD - USCH(s)]:

[TDD - The DRNS shall use the list of RB Identities in the *RB Info* IE in the *USCH information* IE to map each *RB Identity* IE to the corresponding USCH. If the *Transport Layer Address* IE and *Binding ID* IE are included in the *USCH Information* IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the USCH.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message and contains the *TNL QoS* IE, and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall establish the requested USCHs, and the DRNC shall provide the [3.84 Mcps TDD - USCH Information Response IE] [1.28 Mcps TDD - USCH Information Response LCR IE] in the RADIO LINK SETUP RESPONSE message.]

[TDD - CCTrCH Handling]:

[TDD - If the *UL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL CCTrCH Information LCR* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall configure the uplink TPC step size according to the parameters given in the message.]

[TDD - If the *DL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD - If the *TPC CCTrCH List* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

HS-DSCH:

If the HS-DSCH Information IE is present in the RADIO LINK SETUP 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 SETUP 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 SETUP RESPONSE message.
- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- 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 SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the 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 SETUP 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 SETUP REQUEST 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 DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [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 SETUP 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD HS-PDSCH Timeslot Specific Information IE]
 [1.28 Mcps TDD HS-PDSCH Timeslot Specific Information LCR IE] in the HS-DSCH Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

[FDD - If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - DL Code Information]:

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

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK SETUP 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 SETUP 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.]

[FDD – If Primary CPICH is not to be used as a Phase Reference for this Radio Link, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK SETUP RESPONSE message.]

General:

[FDD - If the *Propagation Delay* IE is included, the DRNS may use this information to speed up the detection of UL synchronisation on the Uu interface.]

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

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length of TFCI2* IE and the *Split type* IE is present with the value "Hard", then the DRNS shall assume the length of the TFCI (field 2) is 5 bits.]

[FDD—If the RADIO LINK SETUP REQUEST message includes *Split Type* IE, then the DRNS shall apply this information to the new configuration of TFCI.]

[FDD If the RADIO LINK SETUP REQUEST message includes the *Length of TFCI2* IE, the DRNS shall apply this information to the length of TFCI(field 2).]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Maximum Number of DL Physical Channels per Timeslot* IE the DRNC shall take this value into account when allocating physical resources, otherwise the DRNC can assume that this UE capability is consistent with the other signalled UE capabilities.]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *Support for 8PSK* IE within the *DL Physical Channel Information* IE or *UL Physical Channel Information* IE, the DRNC shall take this into account in the specified direction when allocating physical resources, otherwise the DRNC can assume that this UE does not support 8PSK resource allocation.]

Radio Link Handling:

Diversity Combination Control:

[FDD - The *Diversity Control Field* IE indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not.

- If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

When an RL is to be combined, the DRNS shall choose which RL(s) to combine it with.]

[FDD - In the RADIO LINK SETUP RESPONSE message, the DRNC shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, the DRNC shall include in the DCH Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each DCH of this RL.]
- [FDD Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined.]

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer the *Binding ID* IE and the *Transport Layer Address* IE shall be included in the RADIO LINK SETUP RESPONSE message for only one of the DCHs in the set of co-ordinated DCHs.

[FDD -Transmit Diversity]:

[FDD - If the cell in which the RL is being set up is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK SETUP RESPONSE message indicating the configured Closed loop timing adjustment mode of the cell.]

[FDD - When the *Diversity Mode* IE is set to "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the *Transmit Diversity Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value. If the value of the *Initial DL TX Power* IE is outside the configured DL TX power range, the DRNS shall apply these constrains when setting the initial DL TX power. The DRNS shall also include the configured DL TX power range defined by *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP 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.]

[FDD - If both the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not included in the RADIO LINK SETUP REQUEST message, then DRNC shall determine the initial Uplink SIR Target and include it in the *Uplink SIR Target* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall use the *Uplink SIR Target CCTrCH* IEs in the RADIO LINK SETUP RESPONSE message to indicate for any UL CCTrCH an Uplink SIR Target value in case this is deviating from the value included in the *Uplink SIR Target* IE specified for the Radio Link. If in any [3.84Mcps TDD - *UL CCTrCH Information* IE] [1.28Mcps TDD - *UL CCTrCH Information LCR* IE] the *Uplink SIR Target CCTrCH* IE is not included, the value of the *Uplink SIR Target* IE shall apply to the respective UL CCTrCH.]

[FDD - If the *Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL TX Power. If the *Enhanced Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL Tx Power.]

[TDD - If [3.84Mcps TDD - the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - the *DL Time Slot ISCP Info LCR* IE] is present, the DRNS should use the indicated value when deciding the Initial DL TX Power for the Radio Link. The DRNS shall use the indicated DL Timeslot ISCP when determining the initial DL power per timeslot as specified in [22], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS should assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is

included, the DRNS should assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS should use the indicated value when deciding the Initial DL TX Power for the Radio Link.]

[3.84 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power* IE. 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 - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP 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 value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE 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 or any DL DPCH within each timeslot of the RL.]

[1.28McpsTDD - If the *TSTD Support Indicator* IE is present, the DRNS shall apply this information when configuring the transmit diversity for the new radio link.]

[FDD - The DRNS shall start any DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved on the Uu interface for the concerned RLS or Power Balancing is activated. No inner loop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) and the power control procedure (see 8.3.15).]

[TDD - The DRNS shall start any DL transmission using the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved on the Uu interface for the concerned RL. No inner loop power control shall be performed during this period. Then after UL synchronisation, the DL power shall vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).]

[FDD - If the received *Inner Loop DL PC Status* IE is set to "Active", the DRNS shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the DRNS shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.15, using the *DL Power Balancing Information* IE. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing i.e. *P_{init}* shall be set to the power level indicated by the *Initial DL TX Power* IE (if received) or the decided DL TX power level on each DL channelisation code of a RL based on the *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE.]

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

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell* Information IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Closed Loop Mode2 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE, the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE for the set to "Case1", the DRNC shall include the *Time Slot For SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.

- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- If the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE.
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE and/or the *Cell Capability Container TDD LCR* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a and 9.2.3.1b.
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise the *Restriction Statelindicator* IE may be absent. The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Restriction Statelindicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring GSM Cell Information* IE for each of the GSM neighbouring cells. If available the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information* IE. If available the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK SETUP RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[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 SETUP RESPONSE message.]

General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE and the S-Field Length IE, the DRNS shall activate SSDT, if supported, using the SSDT Cell Identity IE, S-Field Length IE and SSDT Cell Identity Length IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

[FDD If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE. If the enhanced DSCH power control is activated and the TFCI PC Support Indicator IE is set to "TFCI PC Mode 2 Supported", the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK SETUP REQUEST message for at least one DCH and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *D-RNTI* IE, the *CN PS Domain Identifier* IE and/or the *CN CS Domain Identifier* IE for the CN domains (using LAC and RAC of the current cell) to which the DRNC is connected.

[FDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Primary Scrambling Code* IE, the *UL UARFCN* IE and the *DL UARFCN* IE.]

[TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE, the *Cell Parameter ID* IE and the *SCTD Indicator* IE.]

[3.84Mcps TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Sync Case* IE and if the *Sync Case* IE is set to "Case 2", the DRNC shall also include the *SCH Time Slot* IE in the RADIO LINK SETUP RESPONSE message. If the included *Sync Case* IE is set to "Case1", the DRNC shall also include the *Time Slot For SCH* IE.]

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the *URA Information* IE within the RADIO LINK SETUP RESPONSE message URA Information for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEsof all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK SETUP RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK SETUP RESPONSE message, it shall also include the *Cell GAI* IE.

If the DRNS need 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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS need 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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNS shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK SETUP RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The DRNS shall use the *First RLS Indicator* IE to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context.]

[FDD -The UL oout-of-sync algorithm defined in ref. [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.]

Response Message:

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS allocates the requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH, for each set of co-ordinated DCHs [TDD - and for each DSCH [TDD—and USCH]. This information shall be sent to the SRNC in the RADIO LINK SETUP RESPONSE message when all the RLs have been successfully established.

After sending the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message the DRNS shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4].]
- [TDD start transmission on the new RL immediately as specified in ref. [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall:

- if the Delayed Activation IE indicates "Separate Indication":
 - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4], however never before the CFN indicated in the *Activation CFN* IE.]
 - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in ref. [4].]

8.3.1.3 Unsuccessful Operation

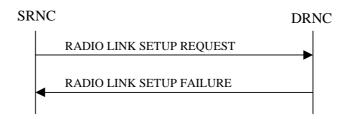


Figure 6: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the DRNC shall respond with a RADIO LINK SETUP FAILURE message. The DRNC shall include in the RADIO LINK SETUP FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD - If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.]

[FDD If the RL identified by the *PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a DSCH RNTI to the UE Context and include the *DSCH RNTI* IE in the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the *Permanent NAS UE Identity* IE is not present, the DRNC shall reject the procedure and send the RADIO LINK SETUP FAILURE message.

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE and the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP FAILURE message.]

Typical cause values are:

Radio Network Layer Causes:

- [FDD UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- [FDD Combining Resources not available];
- Combining not Supported
- Requested Configuration not Supported;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Number of DL codes not supported;
- Number of UL codes not supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use;
- Delayed Activation not supported.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

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

8.3.1.4 Abnormal Conditions

If the DRNC receives either an S-RNTI or a D-RNTI which already has RL(s) established the DRNC shall send the RADIO LINK SETUP FAILURE message to the SRNC, indicating the reason for failure.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes both the *Initial DL TX Power* IE and the *Primary CPICH Ec/No* IE or does not include either of these IEs, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"] the DRNS shall reject Radio Link Setup procedure and shall respond with a RADIO LINK SETUP FAILURE message.

[FDD - If only the *Initial DL TX Power* IE or the *Uplink SIR Target* IE is included in the RADIO LINK SETUP REQUEST message, then DRNC shall reject the Radio Link Setup procedure and shall respond with the RADIO LINK SETUP FAILURE message.]

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD—If the RADIO LINK SETUP REQUEST message does not include the *Split Type* IE but includes *TFCI* Signalling Mode IE set to "Split", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length of TFCI2* IE but the *Split type* IE is set to "Logical", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD—If the RADIO LINK SETUP 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 DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message does not include the *Split Type* IE but includes the *Length of TFCI2* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must", the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE not referring to one of the radio links to be established, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

8.3.2 Radio Link Addition

8.3.2.1 General

This procedure is used for establishing the necessary resources in the DRNS for one [FDD - or more] additional RLs towards a UE when there is already at least one RL established to the concerned UE via this DRNS.

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

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

[FDD The Radio Link Addition procedure serves to establish one or more new Radio Links which do not contain the DSCH. If the DSCH shall be moved into a new Radio Link, the Radio Link reconfiguration procedure shall be applied.]

[TDD - The Radio Link Addition procedure serves to establish a new Radio Link with the DSCH and USCH included, if they existed before.]

8.3.2.2 Successful Operation

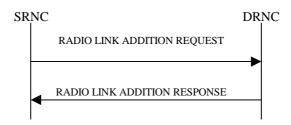


Figure 7: Radio Link Addition procedure: Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

Transport Channel Handling:

[3.84 Mcps TDD - The DRNC shall include the *UL/DL DPCH Information* IE within the *UL/DL CCTrCH Information* IE for each CCTrCH that requires DPCHs.]

[1.28 Mcps TDD - The DRNC shall include the UL/DL DPCH Information LCR IE within the UL/DL CCTrCH Information LCR IE for each CCTrCH that requires DPCHs.]

[TDD - DSCH:]

[3.84 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response* IE for each DSCH.]

[1.28 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a DSCH Information Response LCR_DSCH Information Response LCR_IE for each DSCH.]

[TDD - USCH:]

[3.84 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response* IE for each USCH.]

[1.28 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a USCH Information Response LCR IE for each USCH.]

Physical Channels Handling:

[FDD -Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

FDD - If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

[FDD - If some Transmission Gap Pattern sequences using SF/2 method are initialised in the DRNS, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code.]

[FDD -DL Code Information]:

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

[TDD - CCTrCH Handling]:

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

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall configure the uplink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

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

[TDD - If the *DL CCTrCH Information* IE includes the *TDD TPC Downlink Step Size* IE, the DRNS shall configure the downlink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[FDD – Phase Reference Handling]:

[FDD – If Primary CPICH is not to be used as a Phase Reference for this Radio Link, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK ADDITION RESPONSE message.]

General:

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

Radio Link Handling:

Diversity Combination Control:

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur.

- If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.
- If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

In the case of not combining a RL with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or a RL previously listed in the RADIO LINK ADDITION RESPONSE message, the DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that no combining is done. In this case the DRNC shall include in the *DCH Information Response* IE both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In the case of combining with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, the DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that the RL is combined. In this case, the *RL ID* IE indicates (one of) the previously established RL(s) or a RL previously listed in this RADIO LINK ADDITION RESPONSE message with which the new RL is combined.

[TDD - The DRNC shall always include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for only one of the DCHs in the set of co-ordinated DCHs.

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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

[FDD -Transmit Diversity]:

The DRNS shall activate any feedback mode diversity according to the received settings.

[FDD - If the cell in which the RL is being added is capable to provide Close loop Tx diversity, the DRNC shall indicate the Closed loop timing adjustment mode of the cell by includiing the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - When the *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity for each new Radio Link in accordance with the *Transmit Diversity Indicator* IE using the diversity mode of the existing Radio Link(s).]

DL Power Control:

[FDD - If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH Ec/No* IE measured by the UE are included for an RL in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this RL. If the *Primary CPICH*

Ec/No IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

[TDD - If [3.84Mcps TDD - the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - the *DL Time Slot ISCP Info LCR* IE] is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP* IE, *Primary CCPCH RSCP Delta* IE, [3.84Mcps TDD - and the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - and the *DL Time Slot ISCP Info LCR* IE] are not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CCPCH power used by the existing RL.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or Power Balancing is activated. No inner loop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [10] subclause 5.2.1.2) and the power control procedure (see 8.3.7).]

[TDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).]

[3.84 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the 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 - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION 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 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 *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum Power* IE or lower than indicated by the appropriate *Minimum Power* IE or lower than indicated by the appropriate

[FDD - If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

The DRNC shall provide the configured *Maximum DL TX Power* IE and *Minimum DL TX Power* IE for every new RL to the SRNC in the RADIO LINK ADDITION 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 [FDD - 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.]

[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) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported by the DRNS, according to subclause 8.3.15. In this case, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the DRNS starts the DL transmission and the

activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P*_{init} shall be set to the power level which is calculated based on the *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE (if received), or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing RLs.]

UL Power Control:

The DRNC shall also provide the configured UL Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Closed Loop Mode2 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the Sync Case II set to "Case1", the DRNC shall include the *Neighbouring TDD Cell Information* IE includes the Sync Case II set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK ADDITION RESPONSE message the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE if this information is available.]
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE and/or the *Cell Capability Container TDD LCR* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a and 9.2.3.1b.
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction State Indicator* IE may be absent. The DRNC shall include the *Restriction State Indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

If there are GSM neighbouring cells to the cell(s) in which a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information IE*. If available the DRNC shall also include the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE. When receiving the *SNA Information* IE in the RADIO LINK ADDITION RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

[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 ADDITION RESPONSE message.]

General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, the DRNS shall, if supported, activate SSDT for the concerned new RL using the indicated SSDT Cell Identity.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK ADDITION RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK ADDITION RESPONSE message, it shall also include the *Cell GAI* IE.

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a URA Information for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEs of all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

[FDD - If the UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link established in 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 ADDITION RESPONSE message.]

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE is included in the message and the secondary *CCPCH Info TDD* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK ADDITION RESPONSE message.

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - Radio Link Set Handling]:

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context.]

[FDD - After addition of the new RL(s), the UL out-of-sync algorithm defined in ref. [10] shall, for each of the previously existing and newly established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.]

Response message:

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

After sending the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK ADDITION REQUEST message the DRNS shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4].]
- [TDD start transmission on the new RL immediately as specified in ref. [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall:

- if the Delayed Activation IE indicates "Separate Indication":
 - not start any DL transmission for the concerning RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4], however never before the CFN indicated in the *Activation CFN* IE.]

- [TDD - start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in ref. [4].]

8.3.2.3 Unsuccessful Operation

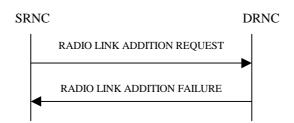


Figure 8: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall respond with a RADIO LINK ADDITION FAILURE message. DRNC shall include in the RADIO LINK ADDITION FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD - If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.]

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Combining Resources not Available;
- Combining not Supported
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- CM not Supported;
- Reconfiguration CFN not Elapsed;
- Number of DL Codes not Supported;
- Number of UL codes not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use;
- Delayed Activation not supported.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;

- Not enough User Plane Processing Resources.

8.3.4 Synchronised Radio Link Reconfiguration Preparation

8.3.4.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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

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

8.3.4.2 Successful Operation



Figure 10: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

Upon receipt, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION PREPARE 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(s) to be modified according to Annex A.

DCH Modification:

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

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs To Modify* IE 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 the *Frame Handling Priority* IE for a DCH to be modified, 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Traffic Class* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The *Traffic Class* IE

may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *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 includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the DRNS may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *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 *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 *DCHs To Modify* IE contains a *DRAC Control* IE set to "requested" and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link established in a cell in which DRAC is active. If the DRNS does not support DRAC, DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *DCHs To Modify* IE 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 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 rate 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 PREPARE message includes any *DCHs To Add* IEs, 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 *DCH Information* IE includes a *DCHs To Add* IE with multiple *DCH Specific Info* IEs, 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 it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For each DCH which do 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 the Physical channel BER 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.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- 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 Startpoint 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 Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [FDD If the *DRAC Control* IE is set to "requested" in the *DCH Specific Info* IE for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY 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 READY message.]
- If the *DCHs To Add* 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 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 *DCHs To Add* 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 *DCHs To Add* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCH To Delete*, 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.

Physical Channel Modification:

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

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

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

- [FDD - If the *DL DPCH Information* IE includes the *Number of DL Channelisation Codes* IE, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included in the RADIO LINK RECONFIGURATION READY message within the *DL Code Information* IE as a *FDD DL Channelisation Code Number* IE when sent to the SRNC. If some Transmission Gap Pattern sequences using "SF/2" method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK

RECONFIGURATION READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Code.]

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When p number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "PhCH number 1", the second to "PhCH number 2", and so on until the pth to "PhCH number p".]
- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE 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 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 PREPARE message does not include the *Length of TFC12* IE and the *Split type* IE is present with the value "Hard", then the DRNS shall assume the length of the TFCI (field 2) is 5 bits.]
 - [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Split Type* IE, then the DRNS shall apply this information to the new configuration of TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Length of TFCI2* IE, the DRNS shall apply this information to the length of TFCI(field 2) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE 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. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or until the last Radio Link is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern* Sequence Information IE and the Downlink Compressed Mode Method IE 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 *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

[TDD - UL/DL CCTrCH Modification]

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

- [TDD If any of the *UL CCTrCH To Modify* IEs or *DL CCTrCH To Modify* IEs includes any of the *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [TDD If any of the following listed DPCH information IEs are modified in the new prepared configuration, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the IEs indicating the new values: *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE, [3.84Mcps TDD *UL Timeslot*

Information IE,] [1.28Mcps TDD - UL Timeslot Information LCR IE,] [3.84Mcps TDD - DL Timeslot Information IE,] [1.28Mcps TDD - DL Timeslot Information LCR IE,] [3.84Mcps TDD - Midamble Shift And Burst Type IE,] [1.28Mcps TDD - Midamble Shift LCR IE,] TFCI Presence IE, [3.84Mcps TDD - TDD Channelisation Code IE,] [1.28Mcps TDD - and/or TDD Channelisation Code LCR IE,] [1.28Mcps TDD -TDD UL DPCH Time Slot Format LCR IE or TDD DL DPCH Time Slot Format LCR IE].]

- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control according [12] and [22] in the new configuration.]
- [TDD If any of the *DL CCTrCH To Modify* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC Downlink Step Size* IE, the DRNS shall apply this value to the downlink TPC step size in the new configuration.]

[TDD - UL/DL CCTrCH Addition]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Add* IEs or *DL CCTrCH To Add* IEs, the DRNS shall include this CCTrCH in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the DPCH information in [3.84Mcps TDD - *UL DPCH to be Added IE/DL DPCH to be Added* IEs] [1.28Mcps TDD - *UL DPCH to be Added LCR* IE/*DL DPCH to be Added IEs*] [3.84Mcps TDD - If no UL DPCH is active before a reconfiguration which adds an UL DPCH, and if a valid Rx Timing Deviation measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation* IE in the RADIO LINK RECONFIGURATION READY message].]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD TPC Downlink Step Size* IE within a *DL CCTrCH To Add* IE, the DRNS shall set the TPC step size of that CCTrCH to that value, otherwise the DRNS shall use the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - The DRNS shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [12] and [22] in the new configuration.]

[TDD - If any of the *DL CCTrCH To Add* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

[1.28Mcps TDD - If the UL CCTrCH To Add IE includes TDD TPC Uplink Step Size IE, the DRNS shall apply the uplink TPC step size in the new configuration.]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Delete* IEs or *DL CCTrCH To Delete* IEs, the DRNS shall remove this CCTrCH in the new configuration, and the DRNC shall include in the RADIO LINK RECONFIGURATION READY message corresponding *UL DPCH to be Deleted* IEs and *DL DPCH to be Deleted* IEs.]

SSDT Activation/Deactivation:

- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", then in the new configuration the DRNS shall activate SSDT, if supported, using the *SSDT Cell Identity* IE in *RL Information* IE, and the *SSDT Cell Identity Length* IE in *UL DPCH Information* IE.]
- [FDD If the *RL Information* IE includes the *Qth Parameter* IE and the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

DL Power Control:

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and power balancing is active, 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 PREPARE message is supported, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, according to subclause 8.3.15, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the 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 READY message.]

[TDD - DSCH Addition/Modification/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IEs, then the DRNS shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD - The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each added DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[FDD If the *DSCHs To Add* IE includes the *Enhanced DSCH PC* IE, the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]

- [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
- [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

[FDD If the enhanced DSCH power control is activated and the TFCI PC Mode 2 is supported, the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Modify* IE, then the DRNS shall treat them each as follows:]

- <u>[TDD -</u> The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified DSCH.]
- [FDD—If the DSCH To Modify IE includes any DSCH Info IEs, then the DRNS shall treat them each as follows:]
 - [FDD If the DSCH Info IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DRNS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC c/sh SDU lengths.]
 - [FDD—If the DSCH Info IE includes any of the Transport Format Set IE or BLER IE, the DRNS shall apply the parameters to the new configuration.]
 - [FDD—If the DSCH Info IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

- [FDD If the DSCH To Modify IE includes the PDSCH RL ID IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [FDD If the indicated PDSCH RL ID is in the DRNS and there was no DSCH RNTI allocated to the UE Context, the DRNC shall allocate a DSCH RNTI to the UE Context and include the DSCH RNTI IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the indicated PDSCH RL ID is in the DRNS and there was a DSCH RNTI allocated to the UE Context, the DRNC shall allocate a new DSCH RNTI to the UE Context, release the old DSCH RNTI and include the DSCH RNTI IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the indicated PDSCH RL ID is not in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall release this DSCH RNTI.]
- [FDD If the DSCH To Modify IE includes the Transport Format Combination Set IE, then the DRNS shall use it as the new Transport Format Combination Set associated with the DSCH.]
- [TDD If the *DSCHs To Modify* IE includes the *CCTrCH ID* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the *DSCHs To Modify* IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]
- [FDD If the DSCHs To Modify IE includes the Enhanced DSCH PC Indicator IE set to "Enhanced DSCH PC Active in the UE ", the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]
 - [FDD together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]
- [FDD If the *DSCHs To Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control in the new configuration.]
- [FDD If the enhanced DSCH power control is activated and the TFCI PC Mode 2 is supported, the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE message includes a *DSCHs To Delete* IE requesting the deletion of all DSCH resources for the UE Context, then the DRNC shall release the DSCH RNTI allocated to the UE Context, if there was one.]

[3.84 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control in the new configuration.] If the requested modifications are allowed by the DRNS and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

[TDD - The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK RECONFIGURATION READY message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in [32].]

[TDD USCH Addition/Modification/Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify, USCH To Add or USCH To Delete IEs, then the DRNS shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, then, the DRNS shall use the Allocation/Retention Priority IE, Scheduling Priority Indicator IE and TrCH Source Statistics Descriptor IE to define a set of USCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, if the TNL QoS IE is included and if ALCAP is not used, the DRNS may use the TNL QoS IE to determine the transport bearer characteristics to apply for the related USCHs.]

[TDD - The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each added USCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify IE, then the DRNS shall treat them each as follows:]

- [TDD If the USCH To Modify IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DNRS shall use them to update the set of USCH Priority classes.]
- [TDD If the USCH To Modify IE includes any of the CCTrCH ID IE, Transport Format Set IE, BLER IE or RB Info IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the USCHs To Modify IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [TDD if the *TNL QoS* IE is included and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply for the related USCHs.]
- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified USCH.]

RL Information:

[FDD - If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the DRNS shall adjust the timing of the radio link accordingly in the new configuration.]

HS-DSCH Setup:

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION PREPARE 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 READY 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 READY 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 PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the 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 READY 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 DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [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 READY 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

Intra-DRNS Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The DRNS shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The DRNC may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message.
- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.
- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION READY message.

- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [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 READY 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD *HS-PDSCH Timeslot Specific Information* IE] [1.28 Mcps TDD *HS-PDSCH Timeslot Specific Information LCR* IE] in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The 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 PREPARE message includes the *Traffic Class* IE in the *HS-DSCH Information To Modify* 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 PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-d PDU Size Index* IE in the *Modify Priority Queue* choice, the DRNS shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the *MAC-d PDU Size Index* IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the 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 PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use the indicated power offset in the new configuration.]

- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the DRNS may modify the HS-SCCH codes corresponding to the HS-DSCH. The DRNC shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the
 DRNS may modify the HS-SCCH parameters corresponding to the HS-DSCH. The DRNC shall then report the
 values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD HS-SCCH
 Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] in the
 RADIO LINK RECONFIGURATION READY message.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the 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 PREPARE 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.
- The DRNC shall include the *HS-DSH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION READY 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 PREPARE 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 PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The DRNC may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY 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 READY message, if the Uplink Timing Advance Control parameters have been changed.]

[TDD_] DSCH_-RNTI Addition/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the <u>PDSCH RL ID PDSCH RL</u>]

 [TDD - If the indicated PDSCH RL ID is in the DRNS and there was no DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a DSCH-RNTI to the UE Context and include the <u>DSCH-RNTI-DSCH-RNTI</u> IE in the RADIO LINK RECONFIGURATION READY message.]

- [TDD If the indicated PDSCH RL ID is in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a new DSCH-RNTI to the UE Context, release the old DSCH-RNTI and include the <u>DSCH-RNTI-DSCH-RNTI</u> IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is not in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall release this DSCH-RNTI.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a <u>DSCHs to Delete</u>. <u>DSCHs to Delete</u>. <u>Delete</u>. IE and/or a <u>USCHs to Delete</u>. <u>USCHs to Delete</u>. IE which results in the deletion of all DSCH and USCH resources for the UE Context, then the DRNC shall release the DSCH-RNTI allocated to the UE Context, if there was one.]

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK RECONFIGURATION PREPARE 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 PREPARE 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.]

[FDD – If Primary CPICH usage for channel estimation information has been reconfigured, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If Secondary CPICH information for channel estimation has been reconfigured, the DRNC shall include the *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *Phase Reference Update Indicator* IE, DRNC shall modify the channel estimation information according to [10] subclause 4.3.2.1 and set the value(s) in *Primary CPICH Usage For Channel Estimation* IE and/or *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message accordingly.]

General

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IE in the [TDD - DSCHs To Modify IE, DSCHs To Add IE, [TDD - USCHs To Modify IE, USCHs To Add IE], HS-DSCH Information IE, HS-DSCH Information To Modify IE, HS-DSCH MAC-d Flows To Add IE or in the RL Specific DCH Information IEs, 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 or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC shall include in the RADIO LINK RECONFIGURATION READY 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. In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iur interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included for only 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 *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included 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 READY 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 READY 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 READY 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 in the RADIO LINK RECONFIGURATION READY message the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively. 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 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 READY 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 READY 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* IE or lower than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appro

[TDD - If the [3.84Mcps TDD - *DL Time Slot ISCP Info* IE][1.28Mcps TDD - *DL Time Slot ISCP Info LCR* IE] is present, the DRNS should use the indicated values when deciding the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the DRNS shall use the indicated values when deciding the Initial DL TX Power.]

8.3.4.3 Unsuccessful Operation



Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the DRNS cannot reserve the necessary resources for all the new DCHs of a set of co-ordinated DCHs requested to be added, it shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs, the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure for each failed radio link in a *Cause* IE.

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;
- Number of DL Codes not Supported;
- Number of UL Codes not Supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported;
- RL Timing Adjustment not Supported.

Miscellaneous Causes:

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

8.3.4.4 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 Synchronised Radio Link Reconfiguration Preparation procedure as having failed and 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 Synchronised Radio Link Reconfiguration Preparation procedure and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE" and SSDT is not active in the current configuration, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure if the *UL DPCH Information* IE does not include the *SSDT Cell Identity Length* IE. The DRNC shall then respond with a RADIO LINK RECONFIGURATION FAILURE message.]

[FDD If the DSCHs To Add IE includes the Enhanced DSCH PC IE and the DSCH To Modify IE include the Enhanced DSCH PC Indicator IE set to "Enhanced DSCH PC not Active in the UE", then the DRNS shall deactivate enhanced DSCH power control in the new configuration.]

[FDD - If both the *DSCHs To Add* IE and the *DSCH To Modify* IE include *Enhanced DSCH PC* IE, then the DRNS shall ignore the *Enhanced DSCH PC* IE in the *DSCH To Add* IE.]

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

[FDD - If the *RL Information* IE includes the *DL Reference Power* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation 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 "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message includes more than one *DL Reference Power* IE, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation 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 RADIO LINK RECONFIGURATIO PREPARE message does not include the *Split Type* IE but includes *TFCI Signalling Mode* IE set to "Split", then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE message does not include the *Length of TFCl2* IE but the *Split type* IE is set to "Logical", then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE 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 DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message does not include the *Split Type* IE but includes the *Length of TFCI2* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

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

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

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 may 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. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink 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.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For 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 the Physical channel BER 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 may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink 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 Startpoint 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 Endpoint 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. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

Intra-DRNS Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The DRNS shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The DRNC may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message.
- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD *HS-PDSCH Timeslot Specific Information* IE] [1.28 Mcps TDD *HS-PDSCH Timeslot Specific Information LCR* IE] in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Information To 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 for a Priority Queue in the *HS-DSCH Information To Modify Unsynchronised* IE, then the DRNS 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 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. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the 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 for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* 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, *HS-DSCH Information To Modify Unsynchronised* IE or *HS-DSCH MAC-d Flows To Add* IE, 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 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 DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the RADIO 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* 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 or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

8.3.7.3 Unsuccessful Operation

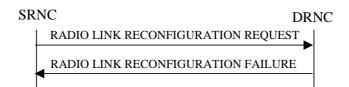


Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the UE Context, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

8.4.2 Common Transport Channel Resources Release

8.4.2.1 General

This procedure is used by the SRNC to request release of Common Transport Channel Resources for a given UE in the DRNS. The SRNC uses this procedure either to release the UE Context from the DRNC (and thus both the D-RNTI and the C-RNTI) or to release only the C-RNTI.

This procedure shall use the connectionless mode of the signalling bearer.

8.4.2.2 Successful Operation



Figure 29: Common Transport Channel Resources Release procedure, Successful Operation

The SRNC initiates the Common Transport Channel Resources Release procedure by sending the COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST message to the DRNC. Upon receipt of the message the DRNC shall release the UE Context identified by the D-RNTI and all its related RACH, [FDD - CPCH,] and/or FACH resources, unless the UE is using dedicated resources (DCH, [TDD - USCH,] and/or DSCH]) in the DRNS in which case the DRNC shall release only the C-RNTI and all its related RACH, [FDD - CPCH,] and/or FACH resources allocated for the UE.

8.4.2.3 Abnormal Conditions

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
SRNC-ID	М		RNC-ID 9.2.1.50		YES	reject
S-RNTI	М		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	М		9.2.2.53		_	
>Min UL Channelisation Code Length	М		9.2.2.25		-	
>Max Number of UL	C –		9.2.2.24		-	
DPDCHs	CodeLen					
>Puncture Limit	М		9.2.1.46	For the UL.	-	
>TFCS	Μ		9.2.1.63		-	
>UL DPCCH Slot Format	М		9.2.2.52		Ι	
>Uplink SIR Target	0		Uplink SIR 9.2.1.69		_	
>Diversity mode	М		9.2.2.8		-	
>SSDT Cell Identity Length	0		9.2.2.41		_	
>S Field Length	0		9.2.2.36		-	
>DPC Mode	0		9.2.2.12A		YES	reject
DL DPCH Information		1			YES	reject
>TFCS	М				_	
			9.2.1.63			
>DL DPCH Slot Format	М		9.2.2.9		_	
>Number of DL	М		9.2.2.26A		_	
Channelisation Codes						
>TFCI Signalling Mode	М		9.2.2.46		-	
>TFCI Presence	C-		9.2.1.55		-	
	SlotFormat					
>Multiplexing Position	М		9.2.2.26		_	
>Power Offset Information		1			_	
>>P01	Μ		Power Offset 9.2.2.30	Power offset for the TFCI bits.	-	
>>PO2	Μ		Power Offset 9.2.2.30	Power offset for the TPC bits.	-	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	-	
>FDD TPC Downlink Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.21A			
>Inner Loop DL PC Status	М		9.2.2.21a		-	
_>Split Type	0		9.2.2.39a		YES	reject
>Length of TFCI2	Ð		9.2.2.21C		YES	reject
DCH Information	Μ		DCH FDD Information 9.2.2.4A		YES	reject
DSCH Information	θ		DSCH FDD Information 9.2.2.13A		¥ ES	reject
RL Information		1 <maxn oofRLs></maxn 			EACH	notify
>RL ID	М		9.2.1.49	1		

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Criticality
>C-ID	М		9.2.1.6		-	
>First RLS Indicator	М		9.2.2.16A		_	
>Frame Offset	М		9.2.1.30		_	
>Chip Offset	Μ		9.2.2.1		-	
>Propagation Delay	0		9.2.2.33		-	
>Diversity Control Field	C – NotFirstRL		9.2.1.20		-	
>Initial DL TX Power	0		DL Power		_	
			9.2.1.21A			
>Primary CPICH Ec/No	0		9.2.2.32		Ι	
>SSDT Cell Identity	0		9.2.2.40		Ι	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		-	
SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.40A		YES	ignore
>Enhanced Primary CPICH Ec/No	0		9.2.2.131		YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0		9.2.1.19Aa		YES	reject
>Qth Parameter	0		9.2.2.34a		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
DL Power Balancing Information	0		9.2.2.10A		YES	ignore
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-PDSCH RL ID	C – InfoHSDS CH		RL ID 9.2.1.49		YES	reject
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

Condition	Explanation
CodeLen	The IE shall be present if Min UL Channelisation Code length IE
	equals to 4
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to
	any of the values from 12 to 16.
NotFirstRL	The IE shall be present if the RL is not the first one in the RL
	Information IE.
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH Information
-	IE is not equal to "none".
EDSCHPC	This IE shall be present if Enhanced DSCH PC IE is present in the
	DSCH Information IE.
InfoHSDSCH	This IE shall be present if HS-DSCH Information IE is present.

Range bound	Explanation				
maxnoofRLs	Maximum number of RLs for one UE.				

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		1 <maxno< td=""><td>3.2.1.11</td><td></td><td>EACH</td><td>ignore</td></maxno<>	3.2.1.11		EACH	ignore
		ofRLs>			LAON	ignore
>RL ID	М		9.2.1.49		-	
>RL Set ID	М		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
Received Total Wide Band Power	М		9.2.2.35A		_	
>Secondary CCPCH Info	0	1	9.2.2.37B		_	
>DL Code Information	M		FDD DL Code Information		_	
>CHOICE Diversity	M		9.2.2.14A		_	
Indication	<u> </u>					
>>Combining					-	
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	-	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>Non Combining or First RL					_	
>>>DCH Information Response	М		9.2.1.16A		_	
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Primary Scrambling Code	0		9.2.1.45		_	
>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	-	
>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_	
>Primary CPICH Power	М		9.2.1.44		_	
> <u>Not Used</u> DSCH Information Response	Ō		NULLDSC H-FDD Information Response 9.2.2.13B		<u>-</u> ¥ES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>PC Preamble	М		9.2.2.27a		-	
>SRB Delay	М		9.2.2.39A		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>TFCI PC Support Indicator	θ		9.2.2.46A		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	Q		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59			
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response	, v	01	5.2.1.11	Mandatory	YES	ignore
		07		for 3.84Mcps TDD , not applicable to 1.28Mcps TDD		ignore
>RL ID	М		9.2.1.49		-	
>URA Information	0		9.2.1.70B		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	М		9.2.3.13D		_	
>Maximum Uplink SIR	M		Uplink SIR			
			9.2.1.69		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	_	
>Cell Parameter ID	0		9.2.1.8	L' J	_	
>Sync Case	0		9.2.1.54		_	
>SCH Time Slot	C-Case2		9.2.1.51			
>SCTD Indicator	0		9.2.1.78			
>PCCPCH Power						
	M		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A		_	
>Alpha Value	М		9.2.3.a		-	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		-	
>UL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	Μ	01	9.2.3.7		120	Ignore
					_	
>>>Repetition Length	M		9.2.3.6			
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot Information	М		9.2.3.13C		-	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		YES	ignore
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ	07	9.2.3.2			
>>DL DPCH Information	111	01	3.2.3.2		YES	iaporo
		01	0.0.0.7		160	ignore
>>>Repetition Period	Μ		9.2.3.7		-	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Den etition Lon eth			Reference			
>>>Repetition Length >>>TDD DPCH Offset	M		9.2.3.6 9.2.3.8A			
>>>DL Timeslot	M		9.2.3.8A 9.2.3.2C			
Information	IVI		9.2.3.20			
>>CCTrCH Maximum DL	0		DL Power	Maximum	YES	ignore
TX Power			9.2.1.21A	allowed power on DPCH	125	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information	-	0			GLOBAL	ignore
Response		<maxnoof DSCHs></maxnoof 				.ge
>>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		-	
>>DSCH Flow Control	М	1	9.2. <u>3.x3</u> 1.2		-	
Information		<u> </u>	6B			
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format	М		9.2.3.13		-	
Management					01.05.11	
>USCH Information Response		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer	0		9.2.1.62		_	
Address	-					
>>Transport Format Management	М		9.2.3.13		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Time Slot for SCH	C-Case1		Time Slot		YES	ignore
			9.2.1.56			
Uplink SIR Target	М		Uplink SIR		YES	ignore
	0		9.2.1.69 9.2.1.13			
Criticality Diagnostics RL Information Response LCR		01		Mandatory for 1.28Mcps TDD, not applicable to 1.28Mcps TDD	YES YES	ignore ignore
>RL ID	М		9.2.1.49		-	
>URA Information	М		9.2.1.70B		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info LCR	М		9.2.3.13H		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	Μ		9.2.1.35		—	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power		_	
>UARFCN	0		9.2.1.21A UARFCN	Corresponds		
	0		9.2.1.66	to Nt in ref.		
>Cell Parameter ID	0		9.2.1.8		-	
>SCTD Indicator	0		9.2.1.78		_	
>PCCPCH Power	M		9.2.1.43		-	
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		-	
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		_	
>UL CCTrCH Information LCR		0 <maxno ofCCTrCH</maxno 		For DCH	GLOBAL	ignore
ECR		sLCR>				
>>CCTrCH ID	М	320172	9.2.3.2			
>>UL DPCH Information		01	0.2.0.2		YES	ignore
LCR		0,			.20	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		-	
>>>UL Timeslot Information LCR	М		9.2.3.13G		_	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		YES	ignore
>DL CCTrCH Information		0 <maxno< td=""><td>0.2.1.00</td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxno<>	0.2.1.00	For DCH	GLOBAL	ignore
LCR		ofCCTrCH sLCR>			OLOD/IL	ignore
>>CCTrCH ID	М		9.2.3.2		-	
>>DL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>DL Timeslot Information LCR	М		9.2.3.2E			
>>>TSTD Indicator	М		9.2.3.13E		-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response LCR		0 <maxnoof DSCHsLC R></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		_	
>>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		_	
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format Management	М		9.2.3.13		-	
>USCH Information Response LCR		0 <maxnoof USCHsLC R></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
	0		9.2.1.3		_	
						1
>>Binding ID >>Transport Layer Address	Ō		9.2.1.62		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>Uplink Timing Advance Control LCR	М		9.2.3.13K		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH <u>-</u> -RNTI	0		9.2. <u>3.x4</u> 1.2 6Ba		YES	ignore

Condition	Explanation
Case2	The IE shall be present if Sync Case IE is equal to "Case2".
Case1	This IE shall be present if Sync Case IE is equal to "Case1".

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE for 3.84Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
CHOICE Cause Level	M		0.2.1111		YES	ignore
>General					-	ignore
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>Successful RL		0 <maxno< td=""><td>0.21110</td><td></td><td>EACH</td><td>ignore</td></maxno<>	0.21110		EACH	ignore
Information Response		ofRLs-1>			2,1011	ignore
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	M	1	9.2.2.35		_	1
>>>URA Information	0	1	9.2.1.70B		_	
>>SAI	M	1	9.2.1.52		_	
>>Cell GAI	0		9.2.1.5A		_	
>>>UTRAN Access Point Position	0		9.2.1.70A		_	
>>>Received Total Wide Band Power	М		9.2.2.35A		-	
>>>Secondary CCPCH	0		9.2.2.37B		-	
>>>DL Code Information	М		FDD DL Code Information 9.2.2.14A		_	
>>>CHOICE Diversity Indication	М				_	
>>>Combining					—	
>>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>Non Combining or First RL					-	
>>>>DCH Information Response	М		9.2.1.16A		_	
>>>SSDT Support Indicator	М		9.2.2.43		_	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		_	
>>>Maximum DL TX Power	M		DL Power 9.2.1.21A		_	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Primary CPICH Power	Μ		9.2.1.44		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Primary Scrambling Code	0		9.2.1.45		-	
>>>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	-	
>>> <u>Not Used</u> DSCH Information Response	0		NULLDSC H FDD Information Response 9.2.2.13B		_ YES	ignore
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>>>PC Preamble	М		9.2.2.27a		_	
>>>SRB Delay	М		9.2.2.39A		_	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	θ		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>DSCH-RNTI	Φ		9.2.1.26Ba		YES	ignore
>>HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
>>HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation	
maxnoofRLs	Maximum number of RLs for one UE.	

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	ІЕ Туре	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information Response		1 <maxnoof RLs-1></maxnoof 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>RL Set ID	М		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>Received Total Wide Band Power	М		9.2.2.35A		-	
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		YES	ignore
>CHOICE Diversity Indication	М				-	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>Non Combining					_	
>>>DCH Information Response	М		9.2.1.16A		-	
>SSDT Support Indicator	М		9.2.2.43		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power		_	
			9.2.1.21A			
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	М		9.2.2.39A		_	
>Primary CPICH Power	М		9.2.1.44		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation		
maxnoofRLs	Maximum number of radio links for one UE.		

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference		XE0	
Message Type	M		9.2.1.40		YES	reject
Transaction ID RL Information Response	M	01	9.2.1.59	Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD	YES	ignore
>RL ID	Μ		9.2.1.49		-	
>URA Information	0		9.2.1.70B		-	
>SAI	Μ		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	Μ		9.2.3.13D		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>PCCPCH Power	Μ		9.2.1.43		-	
>Timing Advance Applied	Μ		9.2.3.12A		-	
>Alpha Value	Μ		9.2.3.a		_	
>UL PhysCH SF Variation	Μ		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information						-
>>>Repetition Period	Μ		9.2.3.7			
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot Information	Μ		9.2.3.13C		_	
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		—	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information	M		9.2.3.2C		-	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
>DCH Information		01	Reference			
>>CHOICE Diversity	М	01			_	
Indication						
>>>Combining >>>>RL ID	M		9.2.1.49	Reference	_	
				Reference	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>Non Combining					_	
>>>>DCH Information Response	Μ		9.2.1.16A		-	
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		-	
>>Transport Format Management	М		9.2.3.13		_	
>>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		_	
>>CHOICE Diversity Indication	0				_	
>>>Non Combining					_	
>>>Binding ID	0		9.2.1.3		_	
>>>>Transport Layer Address	0		9.2.1.62		-	
>USCH Information		0			GLOBAL	ignore
Response		<maxnoof USCHs></maxnoof 				.ge.e
>>USCH ID	Μ		9.2.3.14		_	
>>Transport Format Management	М		9.2.3.13		-	
>>CHOICE Diversity Indication	0				_	
>>>Non Combining					-	
>>>Binding ID	0		9.2.1.3		_	
>>>>Transport Layer Address	0		9.2.1.62		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
Criticality Diagnostics	0	1	9.2.1.13		YES	ignore
RL Information Response LCR	-	01		Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	М		9.2.1.70B		_	
>SAI	М		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		-	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info LCR	М		9.2.3.13H		—	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Criticality
>Minimum Uplink SIR	М		Uplink SIR		-	
>PCCPCH Power	М		9.2.1.69 9.2.1.43		_	
>Maximum Allowed UL Tx	M		9.2.1.35		_	
Power						
>Maximum DL TX Power	М		DL Power		-	
>Minimum DL TX Power	Μ		9.2.1.21A DL Power		_	
			9.2.1.21A			
>Alpha Value	Μ		9.2.3.a		-	
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info	0		9.2.3.7F		_	
TDD LCR						
>UL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	M	<i>R</i> >	9.2.3.2			
>>UL DPCH		01	J.L.J.L		YES	ignore
Information LCR						-9.1010
>>>Repetition Period	Μ		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset >>>UL Timeslot	M		9.2.3.8A 9.2.3.13G		_	
Information LCR	IVI		9.2.3.130		_	
>DL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
LCR		CCTrCHsLC				
>>CCTrCH ID	Μ	<i>R</i> >	9.2.3.2			
>>DL DPCH		01	9.2.3.2		YES	ignore
Information LCR		-			_	5
>>>Repetition Period	M		9.2.3.7		_	
>>>Repetition Length >>>TDD DPCH Offset	M		9.2.3.6 9.2.3.8A		_	
>>>DL Timeslot	M		9.2.3.0A 9.2.3.2E		-	
Information LCR			0.2.0.22			
>>>TSTD Indicator	Μ		9.2.3.13E		_	
>DCH Information	М		9.2.1.16A		-	
Response >DSCH Information		0			GLOBAL	ignore
Response LCR		<maxnoof< td=""><td></td><td></td><td>0202/12</td><td>ignore</td></maxnoof<>			0202/12	ignore
		DSCHsLCR				
>>DSCH ID	M	>	9.2. <mark>3.x11.2</mark>	<u> </u>	_	
			9.2. <u>3.71</u> +.2			
>>DSCH Flow Control	М		9.2. <u>3.x3</u> 1.2		-	
Information	0		6B 9.2.1.3			
>>Binding ID >>Transport Layer	0		9.2.1.3		-	
Address			0.2.1.02			
>>Transport Format Management	М		9.2.3.13		_	
>USCH Information		0			GLOBAL	ignore
Response LCR		<maxnoof USCHsLCR</maxnoof 				
>>USCH ID	M	>	9.2.3.14		_	
>>Transport Format	M	1	9.2.3.13		_	
Management						
>>CHOICE Diversity Indication	0				_	
>>>Non Combining	_				-	
>>>>Binding ID	0		9.2.1.3		—	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Transport Layer Address	0		9.2.1.62		Ι	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Uplink Timing Advance Control LCR	М		9.2.3.13K		YES	ignore

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCHs for one UE for 3.84Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.

9.1.8 RADIO LINK ADDITION FAILURE

9.1.8.1 FDD 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		9.2.1.40		123	Tejeci
CHOICE Cause Level	M		9.2.1.09		YES	ignore
>General	IVI				-	ignore
>>Cause	М		9.2.1.5		_	
>RL Specific	101		0.2.1.0		_	
>>Unsuccessful RL		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-1>			2/10/1	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>Successful RL		0 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-2>				ignere
>>>RL ID	М	-	9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		_	
>>>URA Information	0		9.2.1.70B		_	<u> </u>
>>>SAI	M		9.2.1.52		_	1
>>>Cell GAI	0		9.2.1.5A		_	<u> </u>
>>>UTRAN Access	0		9.2.1.70A		_	1
Point Position	-					
>>>Received Total	М		9.2.2.35A		_	
Wide Band Power			0.2.2.007			
>>>Secondary CCPCH	0		9.2.2.37B		-	
Info						
>>>DL Code	М		FDD DL		YES	ignore
Information			Code			5
			Information			
			9.2.2.14A			
>>>CHOICE Diversity	Μ				-	
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>>DCH	0		9.2.1.16A		YES	ignore
Information						-
Response						
>>>Non Combining					—	
>>>>DCH	Μ		9.2.1.16A		-	
Information						
Response						
>>>SSDT Support Indicator	М		9.2.2.43		-	
>>>Minimum Uplink	М		Uplink SIR		_	
SIR			9.2.1.69			
>>>Maximum Uplink	М		Uplink SIR		-	
SIR			9.2.1.69			
>>>Closed Loop	0		9.2.2.3A		-	
Timing Adjustment						
Mode						
>>>Maximum Allowed UL Tx Power	М		9.2.1.35			
>>>Maximum DL TX	М		DL Power		_	1
Power			9.2.1.21A			
>>>Minimum DL TX	М		DL Power		_	1
Power			9.2.1.21A			
>>>Neighbouring	0		9.2.1.41A		_	1
UMTS Cell Information	-					
>>>Neighbouring GSM	0		9.2.1.41C		_	
Cell Information						
>>>Primary CPICH	M		9.2.1.44		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Power						
>>>PC Preamble	Μ		9.2.2.27a		_	
>>>SRB Delay	Μ		9.2.2.39A		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	θ		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE.

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

Message Type Transaction ID Allowed Queuing Time UL DPCH Information	M			Description		Criticality
Transaction ID Allowed Queuing Time	М		Reference			
Allowed Queuing Time			9.2.1.40		YES	reject
	Μ		9.2.1.59		_	
UL DPCH Information	0		9.2.1.2		YES	reject
		01			YES	reject
>UL Scrambling Code	0		9.2.2.53		_	•
>UL SIR Target	0		Uplink SIR 9.2.1.69		-	
>Min UL Channelisation Code Length	0		9.2.2.25		-	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		_	
>Puncture Limit	0		9.2.1.46	For the UL.	_	
>TFCS	0		9.2.1.63	TFCS for the UL.	_	
>UL DPCCH Slot Format	0		9.2.2.52	OL.	_	
>Diversity Mode	0		9.2.2.32			
>SSDT Cell Identity	0		9.2.2.0			
Length			9.2.2.41		_	
>S-Field Length	0		9.2.2.36		_	
DL DPCH Information	0	01	0.2.2.00		YES	reject
>TFCS	0	01	9.2.1.63	TFCS for the	-	Tejeot
>DL DPCH Slot Format	0		9.2.2.9	DL.	_	
>Number of DL	0		9.2.2.9 9.2.2.26A			
Channelisation Codes	0		9.2.2.20A		—	
>TFCI Signalling Mode	0		9.2.2.46		_	
>TFCI Presence	C-		9.2.1.55		_	
	SlotFormat		0.2.11.00			
>Multiplexing Position	0		9.2.2.26		_	
>Limited Power Increase	0		9.2.2.21A		_	
<mark>≻Split Type</mark>	θ		9.2.2.39a		¥ ES	reject
>Length of TFCI2	θ		9.2.2.21C		YES	reject
DCHs To Modify	0		FDD DCHs		YES	reject
			To Modify 9.2.2.13C			
DCHs To Add	0		DCH FDD		YES	reject
	0		Information		TES	reject
DCHs To Delete		0 <maxnoof< td=""><td>9.2.2.4A</td><td></td><td>GLOBAL</td><td>reject</td></maxnoof<>	9.2.2.4A		GLOBAL	reject
		DCHs>			0200/12	10,000
>DCH ID	М		9.2.1.16		_	
DSCHs To Modify		01			YES	reject
>DSCH Info		0<maxnoof< del=""> DSCHs></maxnoof<>			-	
>>DSCHID	М		9.2.1.26A			
>TrCH Source Statistics Descriptor	θ		9.2.1.65		—	
>>Transport Format Set	θ		9.2.1.64	For DSCH	-	
>>Allocation/ Retention Priority	θ		9.2.1.1		-	
>>Scheduling Priority Indicator	θ		9.2.1.51A		-	
>>BLER	Q		9.2.1.4		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
	M		9.2.1.61		_	
-Request Indicator						
	Ð		9.2.1.58A		YES	ignore
→>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignoro
>>Transport Layer Addr ess	θ		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>PDSCH RL ID	θ		RL-ID 9.2.1.49		-	
>TFCS	θ		9.2.1.63	For DSCH	_	
>Enhanced DSCH PC Indicator	Ð		9.2.2.13 F		YES	ignore
>Enhanced DSCH PC	C- EDSCHPC On		9.2.2.13D		YES	ignore
DSCHs To Add	Ð		DSCH FDD Information 9.2.2.13A		YES	reject
DSCHs to Delete		01			YES	reject
>DSCH Info		1<maxnoof< del=""> DSCHs></maxnoof<>			-	
>>DSCH ID	H		9.2.1.26A		_	
RL Information		0 <maxnoof RLs></maxnoof 			EACH	reject
>RL ID	Μ		9.2.1.49		-	
>SSDT Indication	0		9.2.2.42		_	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		-	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.40A		YES	ignore
>DL Reference Power	0		DL Power 9.2.1.21A	Power on DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>DL DPCH Timing Adjustment	0		9.2.2.9A	Required RL Timing Adjustment	YES	reject
>Qth Parameter	0		9.2.2.34a		YES	ignore
>Phase Reference Update Indicator	0		9.2.2.27B		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.1.30OA			
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
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

Condition	Explanation
SSDTIndON	The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE".
CodeLen	The IE shall be present only if the <i>Min UL</i> Channelisation Code length IE equals to 4.
SlotFormat	The IE shall only be present if the <i>DL DPCH Slot</i> Format IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if <i>Diversity Mode</i> IE is present in the <i>UL DPCH Information</i> IE and is not equal to "none".
EDSCHPCOn	The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC Active in the UE".
EDSCHPC	The IE shall be present if Enhanced DSCH PC IE is present in either the DSCHs To Modify IE or the DSCHs To Add IE.

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofRLs	Maximum number of RLs for a UE.

9.1.11.2 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	M		9.2.1.59			10,000
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s></maxno 		For DCH and USCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		-	
>TFCS	М		9.2.1.63	For the UL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Mandatory for 1.28Mcps TDD; not applicable to 3.84Mcps TDD	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD	YES	reject
UL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63	For the UL.	_	
>TFCI Coding	0		9.2.3.11		_	
>Puncture Limit	0		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH to Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DL CCTrCH To Add		0 <maxno ofCCTrCH s></maxno 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63	For the DL.		
>TFCI Coding	М		9.2.3.11		-	
>Puncture Limit	М		9.2.1.46		_	
>TPC CCTrCH List		0 <maxno CCTrCHs></maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		-	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63	For the DL.	_	
>TFCI Coding	0	1	9.2.3.11		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Puncture Limit	0		9.2.1.46		_	
>TPC CCTrCH List		0 <maxno CCTrCHs></maxno 	3.2.1.+0	List of uplink CCTrCH which provide TPC		
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		-	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH to Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		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 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.16		—	
DSCHs To Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		_	
>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	-	
>TrCH Source Statistics Descriptor	0		9.2.1.65		-	
>Transport Format Set	0		9.2.1.64		-	
>Allocation/Retention Priority	0		9.2.1.1		-	
>Scheduling Priority Indicator	0		9.2.1.51A		—	
>BLER	0		9.2.1.4		_	
>Transport Bearer Request Indicator	M		9.2.1.61		-	
>Traffic Class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
DSCHs To Add	0		DSCH TDD Information 9.2.3.3a		YES	reject
DSCHs to Delete		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2. <u>3.x1</u> 4.2 6A		_	
USCHs To Modify		0 <maxno ofUSCHs></maxno 			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>USCH ID	М		9.2.3.14		_	
>CCTrCH ID	0		9.2.3.2	<u>U</u> L CCTrCH in which the USCH is mapped.	_	
>TrCH Source Statistics Descriptor	0		9.2.1.65		-	
>Transport Format Set	0		9.2.1.64		-	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>BLER	0		9.2.1.4		-	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>TNL QoS	0		9.2.1.56A		YES	ignore
>RB Info		0 <maxno ofRB></maxno 		All Radio Bearers using this USCH	-	
>>RB Identity	М		9.2.3.5B			
>Traffic class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
USCHs To Add	0		USCH Information 9.2.3.15		YES	reject
USCHs to Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.14		-	
Primary CCPCH RSCP	0		9.2.3.5		YES	ignore
DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD only	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	ignore
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.49		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	М		9.2.3.13J		-	
>Uplink Synchronisation Frequency	М		9.2.3.131		_	
RL Information		0 <maxno ofRLs.</maxno 			YES	ignore
>RL ID	М		9.2.1.49		_	
>RL Specific DCH Information	0		9.2.1.49A		_	
Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofRLs	Maximum number of RLs for one UE

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 FDD 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		9.2.1.59		_	•
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	Μ		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		-	
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
> <u>Not Used</u> DSCHs to be Added or Modified	0		NULLDSC H FDD Information Response 9.2.2.13B		<u>-</u> ¥ES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>Secondary CPICH Information Change	0		9.2.2.38B		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	θ		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

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

9.1.12.2 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		9.2.1.59		_	
RL Information Response		0 <maxnoof RLs></maxnoof 		See Note 1 below	YES	ignore
>RL ID	М		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 TDD	0		9.2.3.7B		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	1	9.2.3.2		_	
>>UL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>> Rx Timing Deviation	0		9.2.3.7A		_	
>>>UL Timeslot Information	М		9.2.3.13C		_	
>>UL DPCH to be Modified		01			YES	ignore
>>>Repetition Period	0		9.2.3.7		-	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>UL Timeslot Information		0 <maxnoo fTS></maxnoo 		Applicable to 3.84Mcps TDD only	_	
>>>>Time Slot	М		9.2.1.56		-	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		_	
>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information		0 <maxnoo fDPCHs></maxnoo 			_	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>>TDD Channelisation Code	0		9.2.3.8		-	
>>>UL Timeslot Information LCR		0 <maxno0 fTSLCR></maxno0 		Applicable to 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	М		9.2.3.12a		_	
>>>>Midamble Shift LCR	0		9.2.3.4C		_	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code		0 <maxnoo< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoo<>			GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Information LCR		fDPCHLCR>				
>>>>DPCH	М		9.2.3.3		_	
ID						
>>>>TDD	0		9.2.3.8a		-	
Channelisation						
Code LCR	-					
>>>> TDD	0		9.2.3.10C		YES	reject
UL DPCH Time Slot						
Format LCR						
>>UL DPCH to be		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>			GLOBAL	ignore
Deleted		DPCHs>			0101/11	ignere
>>>DPCH ID	М		9.2.3.3		-	
>>UL DPCH to be		01		Applicable to	YES	ignore
Added LCR				1.28Mcps TDD only		5
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>UL Timeslot	М		9.2.3.13G		-	
Information LCR			ļ		01.05.1	<u> </u>
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		-	<u> </u>
>>DL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>DL Timeslot	М		9.2.3.2C		_	
Information						
>>DL DPCH to be		01			YES	ignore
Modified	0		9.2.3.7			
>>>Repetition Period	0		9.2.3.7		—	
>>>Repetition Length >>>TDD DPCH Offset	0		9.2.3.6 9.2.3.8A		_	
>>>DL Timeslot	0	0 <maxnoo< td=""><td>9.2.3.0A</td><td>Applicable to</td><td></td><td></td></maxnoo<>	9.2.3.0A	Applicable to		
Information		fTS>		3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.1.56		-	1
>>>>Midamble Shift	0		9.2.3.4		—	1
And Burst Type						
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code		0 <maxnoo< td=""><td></td><td></td><td>—</td><td></td></maxnoo<>			—	
Information	NA	fDPCHs>	0.0.0.0			
>>>>DPCH ID	M		9.2.3.3		—	
>>>>TDD Channelisation	0		9.2.3.8		—	
Code						
>>>DL Timeslot		0 <maxnoo< td=""><td> </td><td>Applicable to</td><td>GLOBAL</td><td>ignore</td></maxnoo<>		Applicable to	GLOBAL	ignore
Information LCR		fTSLCR>		1.28Mcps TDD only		ignore
>>>>Time Slot LCR	М		9.2.3.12a			
>>>>Midamble Shift	0		9.2.3.4C		_	
LCR						ļ
>>>>TFCI Presence	0		9.2.1.55		-	<u> </u>
>>>>DL Code		0 <maxno0< td=""><td> </td><td></td><td>GLOBAL</td><td>ignore</td></maxno0<>			GLOBAL	ignore
Information LCR	NA	fDPCHLCR>	0.0.0.0			
>>>>DPCH ID	M O		9.2.3.3		—	
		1	9.2.3.8a	1	—	1
>>>>TDD Channelisation	U					

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>> TDD DL DPCH Time Slot Format LCR	0		9.2.3.8E		YES	reject
>>>>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>>>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>>DL DPCH to be Deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID >>DL DPCH to be Added LCR	M	01	9.2.3.3	Applicable to 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M	1	9.2.3.6		_	
>>>TDD DPCH Offset	М	Ī	9.2.3.8A		-	
>>>DL Timeslot Information LCR	М		9.2.3.2E		_	
>>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
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH to be Added or Modified		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		-	
>>Transport Format Management	М		9.2.3.13		_	
>>DSCH Flow Control Information	M		9.2. <u>3.x3</u> 1.2 6B		—	
>>Binding ID >>Transport Layer	0		9.2.1.3 9.2.1.62			
Address >USCH to be Added or Modified		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Transport Format Management	M		9.2.3.13		_	
>>Binding ID	0		9.2.1.3		Ι	
>>Transport Layer Address	0		9.2.1.62		_	
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD only	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH-RNTI	0		9.2. <u>3.x4</u> 1.2 6Ba		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

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

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD.
maxnoofDPCHs	Maximum number of DPCH for a UE for 3.84Mcps TDD.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofDPCHLCRs	Maximum number of DPCH for a UE for 1.28Mcps TDD.
maxnoofRLs	Maximum number of RLs for one UE

9.2.1.26A DSCH ID

<u>Void</u>. The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

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

9.2.1.26Aa DSCH Initial Window Size

Void.Indicates the initial number of MAC c/sh SDUs that may be transmitted before new credits are received from the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH Initial Window Size			INTEGER (1255)	Number of MAC-c/sh SDUs: 255 = Unlimited number of MAC-c/sh SDUs.

9.2.1.26B DSCH Flow Control Information

<u>Void</u>. The *DSCH Flow Control Information* IE provides flow control information for each scheduling priority class for the DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Flow Control Information		116			-	
>DSCH Scheduling Priority	M		Scheduling Priority Indicator 9.2.1.51A		_	
<mark>≻MAC-c/sh SDU Length</mark>		1 <maxnb MAC- c/shSDUL ength></maxnb 			-	
>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>DSCH Initial Window Size	Ð		9.2.1.26Aa		YES	Ignore

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

9.2.1.26Ba DSCH-RNTI

<u>Void</u>. DSCH RNTI is the UE identifier allocated by DRNS to be used over the radio interface by UEs having one or several DSCHs [TDD and/or USCHs]. It is unique within a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH-RNTI			INTEGER(0.	
			.65535)	

9.2.1.29 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH, [TDD - /DSCH] for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER (015)	0=Lowest Priority,
				15=Highest Priority

9.2.1.34 MAC-c/sh SDU Length

Indicates the MAC-c/sh SDU Length. Which is used for FACH, [TDD - DSCH and USCH]. There may be multiple MAC-c/sh SDU Lengths per priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-c/sh SDU Length			INTEGER(1. .5000)	Size of the MAC-c/sh SDU in number of bits.

9.2.1.51A Scheduling Priority Indicator

Indicates the relative priority of the FACH, [TDD - DSCH, USCH] or HS-DSCH data frame. Used by the DRNC when scheduling FACH, [TDD - DSCH, USCH] or HS-DSCH traffic.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Priority Indicator			INTEGER(0. .15)	Relative priority of the FACH, [TDD - DSCH, USCH] or HS- DSCH data frame: 0=Lowest Priority 15=Highest Priority

9.2.1.63 Transport Format Combination Set (TFCS)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable to DL Transport Channels.

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

Method #1 TFCI range

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

Method #2 Explicit

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE DSCHCHOICE	M		Reference	
TFCS Values				
> <u>Always Used</u> No Split in the TFCI				This choice is <u>always</u> madeif a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Radio Links of the concerned UE are assigned any DSCH transport channels OR
				c) The mode is TDD
>>TFCS		1 <maxnooftfcs ></maxnooftfcs 		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFC 0) should be ignored by the receiver.]
>>>CTFC	М		9.2.1.14A	
>>>CHOICE Gain	C-			
Factors	PhysChan			
>>>Signalled Gain Factors				
>>>>Gain Factor β _C	М		INTEGER(0 15)	[FDD - For UL DPCCH or control part of PRACH ref. [21].] [TDD - β for UL DPCH mapping in accordance to [13].]
>>>>Gain Factor β⊳	М		INTEGER(0 15)	[FDD - For UL DPDCH or data part of PRACH ref. [21].] [TDD - Should be set to 0 by the sender, and shall be ignored by the receiver.]
>>>>Reference TFC nr	0		INTEGER(0 15)	If this TFC is a reference TFC this IE indicates the reference number
>>>Computed Gain Factors				
>>>>Reference TFC nr	М		INTEGER(0 15)	Indicates the reference TFC t be used to calculate the gain factors for this TFC
> <u>Not Used</u> There is a split in the TFCI		1 <maxtfci_1_c< td=""><td>NULL</td><td>This choice is hall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.: a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned on or more DSCH transport channels The first instance of the</td></maxtfci_1_c<>	NULL	This choice is hall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.: a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned on or more DSCH transport channels The first instance of the
>>Transport Format Combination_DCH		1 <maxifci_1_c ombs></maxifci_1_c 		Transport Format Combination_DCH IE corresponds to TFCI (field 1) 0, the second to TFCI (field 1
>>>CTFC(field1)	M		0.2.4.4.4	= 1 and so on.
>>>⊌⊺F⊌(IICI0T)	₩		9.2.1.14A	
>>Choice Signalling	M			

>>>TFCI Range				
>>>>TFC Mapping		1 <maxnotfclgr< th=""><th></th><th></th></maxnotfclgr<>		
on DSCH		oups>		
>>>>Max	M		INTEGER(1	This is the Maximum value in
TFCI(field2)			<maxtfci< th=""><th>the range of TFCI(field2)</th></maxtfci<>	the range of TFCI(field2)
Value			<u>_2_Combs -</u>	values for which the specified
			1>)	CTFC(field2) applies
>>>>CTFC(field	₩		9.2.1.14A	Integer number calculated
2)				according to [16] The
				calculation of CTFC ignores
				any DCH transport channels
				which may be assigned
>>>Explicit				
>>>> Transport		1<maxtfci_2_c< del=""></maxtfci_2_c<>		The first instance of the
Format		ombs>		Transport Format
Combination_DSC				Combination_DSCH1E
H				corresponds to TFCI (field2) =
				0, the second to TFCI (field 2)
				= 1 and so on.
>>>>CTFC(field	₩		9.2.1.14A	Integer number calculated
2)				according to [16] . The
				calculation of CTFC ignores
				any DCH transport channels
				which may be assigned

Condition	Explanation
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH
	[FDD – or PRACH channel].

Range bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations.
maxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1)).
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2)).
maxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies.
MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^{l} (L_i - 1)P_i$ with the notation according to ref. [16].

9.2.2.D Cell Capability Container FDD

The Cell Capability Container FDD indicates which functionalities a cell supports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container FDD			BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Flexible Hard Split Support IndicatorReserved. The second bit: Delayed Activation Support Indicator. The third bit: HS-DSCH Support Indicator. The fourth bit: DSCH Support Indicator. The fourth bit: DSCH Support Indicator. The fourth bit: DSCH Support IndicatorReserved. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. Note that Reserved bits are not considered as a spare bit. They shall however be set to 0 by the transmitter and shall be ignored by the receiver.

9.2.2.13A DSCH FDD Information

Vald The DCCUEF	D Information IE	and the information .	for DSCHs to be established.
VUIU. THE DUCHTE			

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Specific FDD		1<maxno< del=""></maxno<>		See Note 1	_	
Information		ofDSCHs>		below.		
>DSCH ID	H		9.2.1.26A		_	
→TrCH Source Statistics Descriptor	M		9.2.1.65		-	
→Transport Format Set	₩		9.2.1.64	For DSCH	_	
>Allocation/Retention Priority	м		9.2.1.1		-	
Scheduling Priority Indicator	₩		9.2.1.51A		-	
>BLER	M		9.2.1.4		_	
>Traffic Class	M		9.2.1.58A		YES	ignore
→Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignoro
>Transport Layer Address	θ		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	¥ ES	ignoro
PDSCH RL ID	M		RL ID 9.2.1.49		-	
TFCS	М		9.2.1.63	For DSCH	_	
Enhanced DSCH PC	Ð		9.2.2.13D		YES	ignore

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.

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

9.2.2.13B DSCH FDD Information Response

<u>Void</u>. The *DSCH FDD Information Response* IE provides information for DSCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Specific FDD Information Response		1<maxno< del=""> ofDSCHs></maxno<>			-	
>DSCH ID	M		9.2.1.26A		-	
>DSCH Flow Control Information	M		9.2.1.26B		_	
→Binding ID	θ		9.2.1.3		_	
>Transport Layer Address	Ð		9.2.1.62		_	
PDSCH Code Mapping	M		9.2.2.27A	PDSCH code mapping to be used	_	

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.

9.2.2.13D Enhanced DSCH PC

<u>Void</u>. The Enhanced DSCH PC includes all the parameters which are needed for DSCH power control improvement during soft handover.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd	М		9.2.2.13G	
Enhanced DSCH PC Counter	М		9.2.2.13E	
Enhanced DSCH Power Offset	M		9.2.2.13H	

9.2.2.13E Enhanced DSCH PC Counter

<u>Void</u>. The Enhanced DSCH PC Counter parameter gives the number of correct cell ID command to receive in the averaging window, *Enhance DSCH PC Wnd* IE, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC			INTEGER(1.	
Counter			.50)	

9.2.2.13F Enhanced DSCH PC Indicator

Void. The Enhanced DSCH PC Indicator indicates whether Enhanced DSCH PC is in use by the UE or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC			ENUMERAT	
Indicator			ED(Enhance	
			d DSCH PC	
			Active in the	
			UE,	
			Enhanced	
			DSCH PC	
			not Active in	
			the UE)	

9.2.2.13G Enhanced DSCH PC Wnd

<u>Void</u>. The Enhanced DSCH PC Wnd parameter shows the window size to decide primary or non-primary cell, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd			INTEGER(1.	
			.10)	

9.2.2.13H Enhanced DSCH Power Offset

<u>Void</u>. The Enhanced DSCH Power Offset parameter gives the power offset to be added on DSCH when cell is decided to be primary.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH Power Offset			INTEGER(- 150)	Unit dB, step 1 dB

9.2.2.21C Length of TFCI2

<u>Void</u>. This IE indicates the length measured in number of bits of TFCI(field 2). The length of TFCI (field 1) is set to the 10's complement of the length of TFCI(field 2).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Length of TFCI2			INTEGER(1. .10)	

9.2.2.27A PDSCH Code Mapping

<u>Void</u>. This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH. A fourth option is also provided which allows the UTRAN to replace individual entries in the TFCI(field 2) to PDSCH code mapping table with new PDSCH code values.

Method #1 Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. Each TFCI(field2) value corresponds to a given PDSCH channelisation code or set of PDSCH codes for multi code. The DRNS maps TFCI(field2) values to PDSCH codes in the following way:

- The PDSCH codes used for TFCI(field 2) = 0 are given by the SF of the Code Group 1 (i.e. first instance in *PDSCH code mapping*) and the code numbers between CodeNumber₀ (where CodeNumber₀ = "Start code number" of Code Group 1) and CodeNumber₀ + "multi code info" 1.
- This continues with unit increments in the value of TFCI (Field2) mapped to either unit increments in code numbers or groups of contiguous code numbers in case of multi-code, this until "Stop code number" is reached:
 So the PDSCH codes used for TFCI(field 2) = k (for k > 0 and k < ("Stop code number" "Start code number" + 1) DIV k) are given by the SF of the Code Group 1 and the code numbers between CodeNumber_k= CodeNumber_{k+} + "multi-code info" 1.
 If "Stop code number" = "Start code number" + "multi-code info" 1.
- If "Stop code number" = "Start code number" + "multi code info" 1 then this is to be interpreted as defining the mapping between the channelisation code(s) and a single TFCI.
- The DRNS constructs its mapping table by repeating this process for all the Code Groups in the order they are instantiated in *PDSCH code mapping*. The first TFCI(field 2) value used in each group is the largest TFCI(field 2) value reached in the previous group incremented by one.

Note: This imposes that "Stop code number" --- "Start code number" + 1 is a multiple of the value "multi-code info" for each instance of *PDSCH code mapping*. Furthermore, in the case in which multi-code is not used, then "multi-code info" = 1 and the process above also applies.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code or set of PDSCH codes for multi code.

- The set of PDSCH codes specified in the first instance applies for all values of TFCI(field 2) between 0 and the specified "Max TFCI(field2)".
- The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous instance incremented by one.
 - So the set of PDSCH codes specified in a given instance apply for all the values of TFCI(field 2) between the "Max TFCI(field2) value" specified in the previous instance incremented by one and the specified "Max TFCI(field2)" of the considered instance.

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "multicode" – 1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #3 Explicit

The mapping between TFCI (field 2) value and PDSCH channelisation code (or a set of PDSCH codes for multicode) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "multicode" 1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #4 Replace

The "TFCI (field2)" value(s) for which the mapping to PDSCH channelisation code (or a set of PDSCH codes for multicode) is changed are explicitly signalled. Furthermore, the new mapping between TFCI(field 2) value and PDSCH channelisation code(s) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "multicode" 1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code	M		9.2.2.1 1	

hoice Signalling Method >Code Range				
>>PDSCH Code Mapping		1<maxno< del=""> CodeGrou</maxno<>		
>>>Spreading Factor	₩	98>	INTEGER (4, 8, 16, 32, 64, 128,	
>>>Multi-code Info	₩		256) INTEGER(1. .16)	
>>>Start Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	PDSCH code start, Numberi as described in [16]
>>>Stop Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	PDSCH code stop, Numberin as described in [16]
>TFCI Range				
		1 <maxno TFClGroup s></maxno 		
>>>Max TFCI(field2) Value	₩		INTEGER(1. .1023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>Spreading Factor	₩		INTEGER (4, 8, 16, 32, 64, 128, <u>256)</u>	SF of PDSCH code
>>>Multi-code Info	м		INTEGER(1. . 16)	
>>>Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	Code number of PDSCH cod Numbering as described in [16]
>Explicit				[]
>>PDSCH Code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		The first instance of the parameter PDSCH code corresponds to TFCI (field2) 0, the second to TFCI(field 2 = 1 and so on.
>>>Spreading Factor	M		INTEGER (4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>Multi-code Info	₩		INTEGER(1. .16)	
>>>Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	Code number of PDSCH coc Numbering as described in [16]
>Replace				
>Replaced PDSCH code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		
>>>TFCI (field2)	M		INTEGER(1. .1023)	Value of TFCI(field 2) for which PDSCH code mapping will be changed
Spreading Factor	₩		HNTEGER (4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>Multi-code Info	₩		INTÉGER(1. .16)	
>>>Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	Code number of PDSCH coc Numbering as described in [16]

Range Bound	Explanation			
maxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.			
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)			
maxNoTFCIGroups	Maximum number of groups, each group described in torms of a range of TFCI(field 2) values for which a single PDSCH code applies.			
maxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.			

9.2.2.39a Split Type

<u>Void.</u>This parameter indicates if the "Hard" or "Logical" is used for the TFCI split mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Split Type			ENUMERAT ED(Hard, Logical)	"Hard" : meaning that TFC (field 1) and TFCI (field 2) are each 5 bits long and each field is block code separately. "Logical" : meaning that or the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole if then encoded with a single block code.

9.2.2.40A SSDT Cell Identity for EDSCHPC

Void. The SSDT Cell Identity for EDSCHPC is a temporary ID for enhanced DSCH power control assigned to a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Cell Identity for			SSDT Cell	
EDSCHPC			Identity	
			9.2.2.40	

9.2.2.46 TFCI Signalling Mode

This parameter has only one value with any meaningindicates if the normal or split mode is used for the TFCI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Signalling Mode			ENUMERAT ED(Normal, <u>Not</u> <u>Used</u> Split)	The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.

9.2.2.46A TFCI PC Support Indicator

<u>Void</u>. The TFCI PC Support Indicator indicates whether the TFCI power control in the DSCH hard split mode can be applied to DL DPCH in the cell or not. TFCI PC Mode 1 means that the only one power offset(TFCI PO[4]) is applied in TFCI power control. TFCI PC Mode 2 means that the cell also supports enhanced DSCH power control and two power offset(TFCI PO_and TFCI PO_primary[4]) are applied in TFCI power control.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI PC Support Indicator			ENUMERAT ED(TECLPC	
			Mode 1	
			Supported, TFCLPC	
			Mode 2 Supported)	

9.2.2.50A UE Support Of Dedicated Pilots For Channel Estimation

The UE Support Of Dedicated Pilots For Channel Estimation IE indicates whether the UE supports dedicated pilots for channel estimation or not for DCH-or-DSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Support Of Dedicated			ENUMERATED	
Pilots For Channel			(Dedicated	
Estimation			pilots for	
			channel	
			estimation	
			supported)	

9.2.3.3 DPCH ID

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

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

9.2.3.x1 DSCH ID

The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

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

9.2.3.x2 DSCH Initial Window Size

Indicates the initial number of MAC-c/sh SDUs that may be transmitted before new credits are received from the DRNC.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
DSCH Initial Window Size			<u>INTEGER</u> (1255)	Number of MAC-c/sh SDUs: 255 = Unlimited number of MAC-c/sh SDUs.

9.2.3.x3 DSCH Flow Control Information

The DSCH Flow Control Information IE provides flow control information for each scheduling priority class for the DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	<u>Criticality</u>	Assigned Criticality
DSCH Flow Control Information		<u>116</u>			Ξ	
>DSCH Scheduling Priority	M		Scheduling Priority Indicator 9.2.1.51A		=	
>MAC-c/sh SDU Length		<u>1<maxnb< u=""> <u>MAC-</u> <u>c/shSDUL</u> <u>ength></u></maxnb<></u>			=	
>>MAC-c/sh SDU Length	M		9.2.1.34		Ξ	
>DSCH Initial Window Size	0		<u>9.2.<mark>3.x2</mark></u>		<u>YES</u>	ignore

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

9.2.3.x4 DSCH-RNTI

DSCH-RNTI is the UE identifier allocated by DRNS to be used over the radio interface by UEs having one or several DSCHs and/or USCHs. It is unique within a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH-RNTI			INTEGER(0. .65535)	

9.2.3.3a DSCH TDD Information

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <maxno ofDSCHs></maxno 			_	
>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		-	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	-	
>TrCH Source Statistics Descriptor	М		9.2.1.65		_	
>Transport Format Set	М		9.2.1.64		_	
>Allocation/Retention Priority	М		9.2.1.1		_	
>Scheduling Priority Indicator	М		9.2.1.51A		_	
>BLER	М		9.2.1.4		_	
>Traffic Class	М		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.

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

_ _

IMPORTS

```
Active-Pattern-Sequence-Information,
AllocationRetentionPriority,
AllowedQueuingTime,
Allowed-Rate-Information,
AlphaValue,
AntennaColocationIndicator,
BLER,
SCTD-Indicator,
BindingID,
C-ID,
C-RNTI,
CCTrCH-ID,
CFN,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
CNDomainType,
Cause,
CellCapabilityContainer-FDD,
CellCapabilityContainer-TDD,
CellCapabilityContainer-TDD-LCR,
CellParameterID,
ChipOffset,
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue,
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CommonMeasurementValueInformation, CommonTransportChannelResourcesInitialisationNotRequired, CongestionCause, CoverageIndicator, CriticalityDiagnostics, D-RNTI, D-RNTI-ReleaseIndication, DCH-FDD-Information, DCH-ID, DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power. DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DL-PowerBalancing-UpdatedIndicator, DL-ReferencePowerInformation, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DL-DPCH-TimingAdjustment, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, -DSCH FDD Information, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, DSCH-RNTI, SchedulingPriorityIndicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, -EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, Enhanced-PrimaryCPICH-EcNo, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber,

FDD-DL-CodeInformation, FDD-S-CCPCH-Offset. FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell. GA-CellAdditionalShapes, 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-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, HS-SICH-ID, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, L3-Information, -----LengthOfTFCI2, LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NeighbouringTDDCellMeasurementInformationLCR, RL-ID,

SAI, SFN,

SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod,

NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PartialReportingIndicator, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, Phase-Reference-Update-Indicator, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, Primary-CPICH-Usage-For-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, PunctureLimit, QE-Selector, Qth-Parameter, RANAP-RelocationInformation, RB-Info, RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RL-Specific-DCH-Info, RxTimingDeviationForTA, S-FieldLength, S-RNTI, S-RNTI-Group, SCH-TimeSlot, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-CPICH-Information-Change, Secondary-LCR-CCPCH-Info-TDD, SNA-Information, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length,

ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, Support-8PSK, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TnlQos, TOAWE, TOAWS, TrafficClass, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH, UL-DPCCH-SlotFormat, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID,

URA-Information, USCH-ID. USCH-Information. UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, MAChs-ResetIndicator, UL-TimingAdvanceCtrl-LCR, TDD-TPC-UplinkStepSize-LCR, PrimaryCCPCH-RSCP-Delta FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocolIE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLSets-1, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxResetContext, maxResetContextGroup, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, maxNrOfMACdFlows, maxNrOfHSSICHs,

id-Active-Pattern-Sequence-Information,

id-AdjustmentRatio, id-AllowedOueuingTime, id-AntennaColocationIndicator. id-BindingID, id-C-ID. id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure. id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CellCapabilityContainer-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonTransportChannelResourcesInitialisationNotRequired, id-CongestionCause, id-CoverageIndicator, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,

id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD. id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD. id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-DPCH-TimingAdjustment, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, id-DL-PowerBalancing-UpdatedIndicator, id-DL-ReferencePowerInformation. id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rqst, id-DL-ReferencePowerInformation-DL-PC-Rgst, id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Fail, id-DedicatedMeasurementObjectType-DM-Fail-Ind, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectTvpe-DM-Rsp, id-DedicatedMeasurementType, id-DelayedActivation, id-DelayedActivationList-RL-ActivationCmdFDD, id-DelayedActivationList-RL-ActivationCmdTDD, id-DelayedActivationInformation-RL-ActivationCmdFDD, id-DelayedActivationInformation-RL-ActivationCmdTDD, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD,

id-DSCH-RNTI. id-DSCHsToBeAddedOrModified-FDD. id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-EnhancedDSCHPC. id-Enhanced-PrimaryCPICH-EcNo, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-GA-Cell, id-GA-CellAdditionalShapes, id-HCS-Prio, id-HSDSCH-FDD-Information, id-HSDSCH-FDD-Information-Response, id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised, id-HSDSCH-MACdFlows-to-Add, id-HSDSCH-MACdFlows-to-Delete, id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-HSDSCH-RNTI, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD, id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD, id-HSSICH-Info-DM-Rprt, id-HSSICH-Info-DM-Rqst, id-HSSICH-Info-DM, id-IMSI, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rqst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient, id-MeasurementID, id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD, id-PagingArea-PagingRqst, id-PartialReportingIndicator, id-PDSCH-RL-ID, id-Permanent-NAS-UE-Identity, id-Phase-Reference-Update-Indicator, id-FACH-FlowControlInformation,

id-PowerAdjustmentType, id-PrimCCPCH-RSCP-DL-PC-RastTDD. id-Primary-CPICH-Usage-For-Channel-Estimation, id-PropagationDelay, id-Oth-Parameter. id-RANAP-RelocationInformation, id-ResetIndicator. id-RL-Information-PhyChReconfRgstFDD, id-RL-Information-PhyChReconfRqstTDD, id-RL-Information-RL-AdditionRqstFDD, id-RL-Information-RL-AdditionRqstTDD, id-RL-Information-RL-DeletionRqst, id-RL-Information-RL-FailureInd, id-RL-Information-RL-ReconfPrepFDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-RestoreInd, id-RL-Information-RL-SetupRgstFDD, id-RL-Information-RL-SetupRqstTDD, id-RL-InformationItem-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rqst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadvTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadvFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ParameterUpdateIndicationFDD-RL-Information-Item, id-RL-ParameterUpdateIndicationFDD-RL-InformationList, id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-ReconfigurationReguestFDD-RL-InformationList, id-RL-ReconfigurationRequestFDD-RL-Information-IEs, id-RL-ReconfigurationRequestTDD-RL-Information, id-RL-ReconfigurationResponseTDD-RL-Information, id-RL-Specific-DCH-Info, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rqst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd,

id-RL-Set-Information-RL-RestoreInd, id-RL-Set-Successful-InformationItem-DM-Fail. id-RL-Set-Unsuccessful-InformationItem-DM-Fail. id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind, id-RL-Successful-InformationItem-DM-Fail. id-RL-Unsuccessful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail-Ind, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RNC-ID, id-RxTimingDeviationForTA, id-S-RNTI. id-SAI. id-Secondary-CPICH-Information-Change, id-SFN, id-SFNReportingIndicator, id-SNA-Information, id-SRNC-ID, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-TDD-maxNrDLPhysicalchannels, id-TDD-Support-8PSK, id-timeSlot-ISCP, id-TimeSlot-RL-SetupRspTDD, id-TnlOos, id-TransportBearerID, id-TransportBearerRequestIndicator, id-TransportLayerAddress, id-UC-ID, id-ContextInfoItem-Reset, id-ContextGroupInfoItem-Reset, id-Transmission-Gap-Pattern-Sequence-Information, id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation, id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH, id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-SetupRqstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,

id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD. id-UL-DPCH-Information-RL-ReconfRostFDD. id-UL-DPCH-Information-RL-SetupRgstFDD, id-UL-DPCH-InformationItem-PhyChReconfRgstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRqstTDD, id-UL-SIRTarget, id-URA-Information. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add. id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD, id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD, id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD, id-neighbouringTDDCellMeasurementInformationLCR, id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD,

id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD, id-TrafficClass. id-UL-Synchronisation-Parameters-LCR, id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-MAChs-ResetIndicator, id-UL-TimingAdvanceCtrl-LCR, id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD, id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD, id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-DL-CCTrCH-InformationList-RL-ReconfRspTDD, id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationItem-RL-AdditionRqstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD, id-PrimaryCCPCH-RSCP-Delta

FROM RNSAP-Constants;

```
-- RADIO LINK SETUP REQUEST FDD
_ _
   RadioLinkSetupRequestFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupReguestFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}
                                                                                                                   OPTIONAL.
RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-SRNC-ID
                                  CRITICALITY reject TYPE RNC-ID
                                                                                   PRESENCE mandatory }
     ID id-S-RNTI
                                  CRITICALITY reject TYPE S-RNTI
                                                                                    PRESENCE mandatory }
     ID id-D-RNTI
                                  CRITICALITY reject TYPE D-RNTI
                                                                                PRESENCE optional } |
                                      CRITICALITY reject TYPE AllowedQueuingTime
                                                                                           PRESENCE optional
     ID id-AllowedOueuingTime
     ID id-UL-DPCH-Information-RL-SetupRgstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRgstFDD
                                                                                                           PRESENCE mandatory
     ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
                                                                                                           PRESENCE mandatory
     ID id-DCH-FDD-Information
                                  CRITICALITY reject TYPE DCH-FDD-Information
                                                                                   PRESENCE mandatory }
    FID id DSCH FDD Information CRITICALITY reject TYPE DSCH FDD Information
                                                                                  PRESENCE optional
                                                                                                           \rightarrow +
     ID id-RL-Information-RL-SetupRqstFDD
                                             CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD
                                                                                                           PRESENCE mandatory }|
    { ID id-Transmission-Gap-Pattern-Sequence-Information
                                                            CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
                                                                                                                                  PRESENCE
    optional }
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    . . .
}
UL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
   ul-ScramblingCode
                                  UL-ScramblingCode,
   minUL-ChannelisationCodeLength
                                         MinUL-ChannelisationCodeLength,
   maxNrOfUL-DPCHs
                                  MaxNrOfUL-DPCHs
                                                         OPTIONAL
    -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 -- ,
   ul-PunctureLimit
                                  PunctureLimit,
   ul-TFCS
                                  TFCS,
   ul-DPCCH-SlotFormat
                                  UL-DPCCH-SlotFormat,
    ul-SIRTarget
                                  UL-SIR
                                                 OPTIONAL,
   diversityMode
                                  DiversityMode,
    sSDT-CellIdLength
                                  SSDT-CellID-Length
                                                         OPTIONAL,
    s-FieldLength
                                  S-FieldLength
                                                         OPTIONAL,
                                  ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
    { ID id-DPC-Mode
                                  CRITICALITY reject
                                                         EXTENSION DPC-Mode PRESENCE optional },
   . . .
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS
                                  TFCS,
   dl-DPCH-SlotFormat
                                  DL-DPCH-SlotFormat,
   nrOfDLchannelisationcodes
                                  NrOfDLchannelisationcodes,
```

```
tFCI-SignallingMode
                                    TFCI-SignallingMode,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTTONAL.
    -- This IE shall be present if DL DPCH Slot Format IE is equal to any of the values from 12 to 16 --,
    multiplexingPosition
                                        MultiplexingPosition,
    powerOffsetInformation
                                        PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
                                    LimitedPowerIncrease,
    limitedPowerIncrease
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id SplitType CRITICALITY reject EXTENSION SplitType PRESENCE optional
    { ID id LengthOfTFCI2 CRITICALITY reject EXTENSION LengthOfTFCI2 PRESENCE optional
    . . .
PowerOffsetInformation-RL-SetupRgstFDD ::= SEOUENCE
       pol-ForTFCI-Bits
                                        PowerOffset,
       po2-ForTPC-Bits
                                        PowerOffset.
       po3-ForPilotBits
                                        PowerOffset,
                                        ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
       iE-Extensions
        . . .
PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-SetupRqstFDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-InformationItemIEs-RL-
SetupRqstFDD} }
RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD
                                                                                                                 PRESENCE mandatory
}
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    c-ID
                                    C-ID,
    firstRLS-indicator
                                    FirstRLS-Indicator,
    frameOffset
                                    FrameOffset.
    chipOffset
                                    ChipOffset,
    propagationDelay
                                    PropagationDelay
                                                            OPTIONAL,
                                    DiversityControlField
    diversitvControlField
                                                                OPTIONAL
    -- This IE shall be present if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power
                                    DL-Power
                                                        OPTIONAL.
                                    PrimaryCPICH-EcNo
    primaryCPICH-EcNo
                                                                OPTIONAL,
    sSDT-CellID
                                    SSDT-CellID
                                                        OPTIONAL,
    transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                    OPTIONAL,
    -- This IE shall be present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    . . .
```

}

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RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSP 	ignore EXTENSION SSDT-Cel CH PC IE is present in th CRITICALITY ignore Y ignore EXTENSION ct EXTENSION DelayedActiv	LID PRESENCE THE DSCH Information IE EXTENSION EN RL-Specific-DCH-Info ration PRESENCE option	hanced-Primar PRESENCE al }		PRESENCE optional }
}					
RadioLinkSetupRequestFDD-Extensions RNSAP-PROT	OCOL-EXTENSION ::= {				
{ ID id-Permanent-NAS-UE-Identity		EXTENSION Pe	rmanent-NAS-U	E-Identity	PRESENCE optional }
{ ID id-DL-PowerBalancing-Information	CRITICALITY ignore	EXTENSION DL-Power	Balancing-Inf	ormation	PRESENCE optional}
{ ID id-HSDSCH-FDD-Information	CRITICALITY reject		DSCH-FDD-Info	rmation	PRESENCE optional }
	CRITICALITY reject	EXTENSION RL	-ID		PRESENCE conditional }
This IE shall be present if HS-DSCH Inf	-				
{ ID id-UE-Support-Of-Dedicated-Pilots-For	-Channel-Estimation	CRITICALITY ignore	EXTENSION	UE-Support	-Of-Dedicated-Pilots-For-
Channel-Estimation PRESENCE optional}					
{ ID id-UE-Support-Of-Dedicated-Pilots-For		-DSCH CRITICAL	ITY ignore	EXTENSION	UE-Support-Of-Dedicated-
Pilots-For-Channel-Estimation-Of-HS-DSCH	PRESENCE optional},				
····					
}					

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-- RADIO LINK SETUP RESPONSE FDD _ _ ***** RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} OPTIONAL, RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE optional } | ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-InformationResponseList-RL-SetupRspFDD RL-SetupRspFDD } } RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory } RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE { rL-TD RL-ID, rL-Set-TD RL-Set-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, GA-AccessPointPosition qA-AccessPointPosition OPTIONAL, received-total-wide-band-power Received-total-wide-band-power, Secondary-CCPCH-Info secondary-CCPCH-Info OPTIONAL, dl-CodeInformation FDD-DL-CodeInformation, diversityIndication DiversityIndication-RL-SetupRspFDD, sSDT-SupportIndicator SSDT-SupportIndicator, maxUL-SIR UL-SIR, minUL-SIR UL-SIR, closedlooptimingadjustmentmode Closedlooptimingadjustmentmode OPTIONAL, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, PrimaryScramblingCode primaryScramblingCode OPTIONAL, uL-UARFCN UARFCN OPTIONAL, dL-UARFCN UARFCN OPTIONAL, primaryCPICH-Power PrimaryCPICH-Power, not-Used-dSCHInformationResponse -NULLDSCH-InformationResponse-RL-SetupRspFDD-OPTIONAL,

```
neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation- OPTIONAL,
    neighbouring-GSM-CellInformation
                                       Neighbouring-GSM-CellInformation- OPTIONAL,
    pC-Preamble
                                   PC-Preamble.
    sRB-Delay
                                   SRB-Delay,
    iE-Extensions
                                   ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                                  CRITICALITY —— iqnore EXTENSION — GA-CellAdditionalShapes
                                                                                                                               PRESENCE optional
}|
    { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore ____EXTENSION _____DL-PowerBalancing-ActivationIndicator
                                                                                                                                  PRESENCE
optional}
    { ID id TFCI PC SupportIndicator
                                         - CRITICALITY ignore EXTENSION TFCI PC SupportIndicator PRESENCE optional } |
                                                                                                                               PRESENCE optional
    { ID id-HCS-Prio
                                                   }|
    { ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION — Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                        PRESENCE
optional },
    . . .
}
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                   Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                   NonCombiningOrFirstRL-RL-SetupRspFDD
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                               RL-ID.
                               ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                          CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                     PRESENCE optional },
    . . .
}
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                               DCH-InformationResponse,
    iE-Extensions
                               ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH InformationResponse RL SetupRspFDD ::= Protocolle Single Container {{ DSCH InformationResponse RL SetupRspFDD }}
DSCH InformationResponseIE RL SetupRspFDD RNSAP PROTOCOL IES ::= {
    { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse PRESENCE mandatory }
}
```

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RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {

	<u> </u>	EXTENSION DSCH RNTI	
ID id-HSDSCH-RNTI	CRITICALITY ignore	EXTENSION HSDSCH-RNTI	PRESENCE optional }
\hat{i} ID id-HSDSCH-FDD-Information-Response	CRITICALITY ignore	EXTENSION HSDSCH-FDD-Information-Response	PRESENCE optional },

}

. . .

UNCHANGED TEXT IS REMOVED

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-- RADIO LINK SETUP FAILURE FDD _ _ ***** RadioLinkSetupFailureFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupFailureFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL, . . . RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional } ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } ID id-UL-SIRTarget PRESENCE optional } CRITICALITY ignore TYPE UL-SIR ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . CauseLevel-RL-SetupFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-SetupFailureFDD, RLSpecificCauseList-RL-SetupFailureFDD, rLSpecificCause . . . GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE cause Cause, iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= . . . RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE { unsuccessful-RL-InformationRespList-RL-SetupFailureFDD UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD, successful-RL-InformationRespList-RL-SetupFailureFDD SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DSCH-RNTI CRITICALITY ignore EXTENSION DSCH-RNTI PRESENCE optional }| PRESENCE optional } ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional }, . . . }

```
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-Single-Container { {UnsuccessfulRL-
InformationResponse-RL-SetupFailureFDD-IEs} }
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
                                                                        CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
                    PRESENCE mandatory }
SetupFailureFDD
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    cause
                                Cause,
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {SuccessfulRL-
InformationResponse-RL-SetupFailureFDD-IEs} }
SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD
                                                                    CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD
    PRESENCE mandatory
}
SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE
    rL-ID
                                            RL-ID,
    rL-Set-ID
                                            RL-Set-ID,
    uRA-Information
                                            URA-Information
                                                                                OPTIONAL,
                                            SAI,
    SAT
    qA-Cell
                                            GA-Cell
                                                        OPTIONAL,
    gA-AccessPointPosition
                                            GA-AccessPointPosition
                                                                                OPTIONAL,
    received-total-wide-band-power
                                                                    -Received-total-wide-band-power,
    secondary-CCPCH-Info
                                            Secondary-CCPCH-Info
                                                                                OPTIONAL,
    dl-CodeInformation
                                            FDD-DL-CodeInformation,
    diversityIndication
                                            DiversityIndication-RL-SetupFailureFDD,
    sSDT-SupportIndicator
                                            SSDT-SupportIndicator,
    maxUL-SIR
                                            UL-SIR,
    minUL-SIR
                                            UL-SIR,
    closedlooptimingadjustmentmode
                                            Closedlooptimingadjustmentmode
                                                                                OPTIONAL,
    maximumAllowedULTxPower
                                            MaximumAllowedULTxPower,
    maximumDLTxPower
                                            DL-Power,
    minimumDLTxPower
                                            DL-Power,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
   primaryScramblingCode
                                            PrimaryScramblingCode
                                                                                OPTIONAL,
    uL-UARFCN
                                                    OPTIONAL,
                                                    -UARFCN
    dL-UARFCN
                                                                                        OPTIONAL,
    not-Used-dSCH-InformationResponse-RL-SetupFailureFDD
                                                                -NULLDSCH-InformationResponseList-RL-SetupFailureFDD
                                                                                                                             OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation- OPTIONAL,
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation- OPTIONAL,
```

```
pC-Preamble
                                            PC-Preamble,
    sRB-Delay
                                            SRB-Delay.
    iE-Extensions
                                            ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    . . .
SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                           CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                       PRESENCE optional }
     ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                            EXTENSION
                                                                                            DL-PowerBalancing-ActivationIndicator
                                                                                                                                     PRESENCE
optional}|
    { ID id-TFCI-PC-SupportIndicator CRITICALITY ignore EXTENSION TFCI-PC-SupportIndicator PRESENCE optional }}
     ID id-HCS-Prio
                               CRITICALITY ignore EXTENSION HCS-Prio
                                                                                PRESENCE optional }|
     ID id-Primary-CPICH-Usage-For-Channel-Estimation
                                                           CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                           PRESENCE
optional },
    . . .
DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                NonCombiningOrFirstRL-RL-SetupFailureFDD
Combining-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                           CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                       PRESENCE optional },
    . . .
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                           DCH-InformationResponse,
    iE-Extensions
                                            ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH InformationResponseList RL SetupFailureFDD ::= ProtocollE Single Container {{ DSCH InformationResponseListIEs RL SetupFailureFDD }}
DSCH-InformationResponseListIEs-RL-SetupFailureFDD_RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse PRESENCE mandatory }
}
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
```

UNCHANGED TEXT IS REMOVED

```
_ _
-- RADIO LINK ADDITION RESPONSE FDD
_ _
  *****
RadioLinkAdditionResponseFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{RadioLinkAdditionResponseFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                                        OPTIONAL,
    . . .
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                         CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                               PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
}
RL-InformationResponseList-RL-AdditionRspFDD
                                                  ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-
InformationResponseItemIEs-RL-AdditionRspFDD} }
RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD
                                                             CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD
                                                                                                                                  PRESENCE
mandatory }
}
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                                  RL-ID,
   rL-Set-ID
                                  RL-Set-ID,
   uRA-Information
                                  URA-Information
                                                     OPTIONAL,
                                  SAI,
    sAI
   gA-Cell
                                  GA-Cell
                                             OPTIONAL,
   gA-AccessPointPosition
                                  GA-AccessPointPosition OPTIONAL,
    received-total-wide-band-power Received-total-wide-band-power,
    secondary-CCPCH-Info
                                  Secondary-CCPCH-Info
                                                             OPTIONAL,
   dl-CodeInformation
                                  DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication
                                  DiversityIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator
                                      SSDT-SupportIndicator,
   minUL-SIR
                                      UL-SIR,
   maxUL-SIR
                                      UL-SIR,
    closedlooptimingadjustmentmode
                                      Closedlooptimingadjustmentmode OPTIONAL,
   maximumAllowedULTxPower
                                      MaximumAllowedULTxPower,
   maximumDLTxPower
                                      DL-Power,
   minimumDLTxPower
                                      DL-Power,
    neighbouring-UMTS-CellInformation
                                      Neighbouring-UMTS-CellInformation OPTIONAL,
   neighbouring-GSM-CellInformation
                                      Neighbouring-GSM-CellInformation OPTIONAL,
   pC-Preamble
                                      PC-Preamble,
    sRB-Delay
                                      SRB-Delay,
   primaryCPICH-Power
                                      PrimaryCPICH-Power,
   iE-Extensions
                                      ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
```

```
}
```

```
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional }
     ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                          EXTENSION
                                                                                          DL-PowerBalancing-ActivationIndicator
                                                                                                                                   PRESENCE
optional}
  - { ID id TFCI PC SupportIndicator CRITICALITY ignore EXTENSION TFCI PC SupportIndicator PRESENCE optional } }
     ID id-HCS-Prio
                        CRITICALITY ignore EXTENSION HCS-Prio
                                                                              PRESENCE optional }
    { ID id-Primary-CPICH-Usage-For-Channel-Estimation
                                                           CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                         PRESENCE
optional },
    . . .
}
DL-CodeInformationList-RL-AdditionRspFDD ::= Protocolle-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}
DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                      PRESENCE mandatory }
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                   Combining-RL-AdditionRspFDD,
    nonCombining
                                   NonCombining-RL-AdditionRspFDD
}
Combining-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID
                               RL-ID.
    iE-Extensions
                               ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
}
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                     CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                      PRESENCE optional },
    . . .
}
NonCombining-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                                           DCH-InformationResponse,
                                               ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UNCHANGED TEXT IS REMOVED
```

```
_ _
-- RADIO LINK ADDITION FAILURE FDD
_ _
   *****
RadioLinkAdditionFailureFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{RadioLinkAdditionFailureFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                                       OPTIONAL,
    . . .
}
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                             CRITICALITY
                                                                            ignore
                                                                                             TYPE CauseLevel-RL-AdditionFailureFDD
       PRESENCE
                 mandatory }
    { ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                       GeneralCauseList-RL-AdditionFailureFDD,
                      RLSpecificCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
    . . .
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    cause
                                              Cause,
   iE-Extensions
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                OPTIONAL,
    . . .
}
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                 UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                 SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
                                              ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
}
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { { UnsuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs } }
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                     CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                       PRESENCE mandatory }
}
```

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```
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE
    rL-ID
                                    RL-ID.
    cause
                                    Cause.
    iE-Extensions
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocollE-Single-Container { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs} }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                        CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                        PRESENCE mandatory }
}
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-TD
                                        RL-ID,
    rL-Set-TD
                                        RL-Set-ID,
    uRA-Information
                                        URA-Information
                                                            OPTIONAL,
    sAI
                                        SAI.
    qA-Cell
                                        GA-Cell
                                                    OPTIONAL.
    gA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL,
    received-total-wide-band-power
                                        Received-total-wide-band-power,
    secondary-CCPCH-Info
                                        Secondary-CCPCH-Info
                                                                    OPTIONAL,
    dl-CodeInformation
                                        DL-CodeInformationList-RL-AdditionFailureFDD,
    diversitvIndication
                                        DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
   minUL-SIR
                                        UL-SIR,
    maxUL-SIR
                                        UL-SIR,
    closedlooptimingadjustmentmode
                                        Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    pC-Preamble
                                        PC-Preamble,
    sRB-Delav
                                        SRB-Delay,
    iE-Extensions
                                        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    . . .
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                                    CRITICALITY ignore EXTENSION
                                                                                    GA-CellAdditionalShapes
                                                                                                                 PRESENCE optional }
      ID id-DL-PowerBalancing-ActivationIndicator
                                                    CRITICALITY ignore EXTENSION
                                                                                    DL-PowerBalancing-ActivationIndicator
                                                                                                                             PRESENCE optional }
    { ID id TFCI PC SupportIndicator
                                                    CRITICALITY ignore EXTENSION TFCI PC SupportIndicator PRESENCE optional } |
```

```
{ ID id-HCS-Prio
                                                    CRITICALITY ignore EXTENSION HCS-Prio
                                                                                                  PRESENCE optional }
    { ID id-Primary-CPICH-Usage-For-Channel-Estimation
                                                            CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                            PRESENCE
optional },
    . . .
}
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}
DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                        PRESENCE mandatory }
}
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionFailureFDD,
    nonCombining
                                    NonCombining-RL-AdditionFailureFDD
}
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
}
CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                     CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                        PRESENCE optional },
    . . .
}
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse DCH-InformationResponse,
    iE-Extensions
                                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
}
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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```
-- RADIO LINK RECONFIGURATION PREPARE FDD
_ _
     RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                            {RadioLinkReconfigurationPrepareFDD-IEs}},
                                                                                                                           OPTIONAL,
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                     CRITICALITY reject TYPE AllowedQueuingTime
                                                                                          PRESENCE optional }
     ID id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                        CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                        PRESENCE optional
     ID id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                        CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                        PRESENCE optional }
     ID id-FDD-DCHs-to-Modify
                                 CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                              PRESENCE optional
     ID id-DCHs-to-Add-FDD
                              CRITICALITY reject TYPE DCH-FDD-Information
                                                                               PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfPrepFDD
                                             CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD
                                                                                                       PRESENCE optional } |
    ID id DSCH Modify RL ReconfPrepFDD
                                            CRITICALITY reject TYPE DSCH Modify RL ReconfPrepFDD
                                                                                                 - { ID id DSCHs to Add FDD
                                    CRITICALITY reject TYPE DSCH FDD Information
                                                                                        - PRESENCE optional } |
    Did DSCH Delete RL ReconfPrepFDD CRITICALITY reject TYPE DSCH Delete RL ReconfPrepFDD PRESENCE optional } |
     ID id-RL-InformationList-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD PRESENCE optional }
     ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional
},
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   ul-ScramblingCode
                                 UL-ScramblingCode
                                                        OPTIONAL,
   ul-SIRTarget
                                 UL-SIR
                                                        OPTIONAL,
   minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
   maxNrOfUL-DPDCHs
                                  MaxNrOfUL-DPCHs
                                                        OPTIONAL
   -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 --,
   ul-PunctureLimit
                                 PunctureLimit
                                                        OPTIONAL,
                                 TFCS
   tFCS
                                        OPTIONAL,
   ul-DPCCH-SlotFormat
                                 UL-DPCCH-SlotFormat
                                                        OPTIONAL,
   diversityMode
                                 DiversityMode
                                                        OPTIONAL,
                                                        OPTIONAL,
   sSDT-CellIDLength
                                  SSDT-CellID-Length
   s-FieldLength
                                  S-FieldLength
                                                        OPTIONAL,
                                  ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   tFCS
                                 TFCS
                                         OPTIONAL,
   dl-DPCH-SlotFormat
                                 DL-DPCH-SlotFormat
                                                        OPTIONAL,
   nrOfDLchannelisationcodes
                                 NrOfDLchannelisationcodes
                                                            OPTIONAL,
   tFCI-SignallingMode
                                 TFCI-SignallingMode
                                                        OPTIONAL,
```

```
tFCI-Presence
                                 TFCI-Presence
                                                        OPTIONAL
   -- This IE shall be present if DL DPCH Slot Format IE is from 12 to 16 --,
   multiplexingPosition
                                 MultiplexingPosition
                                                           OPTIONAL.
   limitedPowerIncrease
                                 LimitedPowerIncrease
                                                           OPTIONAL,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
   . . .
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id SplitType CRITICALITY reject EXTENSION SplitType PRESENCE optional } |
    ID id-LengthOfTFC12 CRITICALITY reject EXTENSION LengthOfTFC12 PRESENCE optional
   . . .
DCH-DeleteList-RL-ReconfPrepFDD
                                         ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
   dCH-ID
                                 DCH-ID,
   iE-Extensions
                                 ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
   . . .
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH Modify RL Reconf PrepFDD ::= SEQUENCE {
DSCH-ModifyInfo-RL-ReconfPrepFDD OPTIONAL,
RL-ID
                                                            -----OPTIONAL,
TFCS
                                                              -OPTIONAL,
                                     - ProtocolExtensionContainer { {DSCH Modify RL ReconfPrepFDD ExtIEs} } OPTIONAL,
+
DSCH-Modify-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id EnhancedDSCHPCIndicator CRITICALITY ignore EXTENSION EnhancedDSCHPCIndicator PRESENCE optional} |
   { ID id EnhancedDSCHPC
                                      CRITICALITY ignore EXTENSION EnhancedDSCHPC
                                                                                         — PRESENCE conditional},
     - The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC Active in the UE".
   . . .
}
DSCH ModifyInfo RL ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH ModifyInformationItem RL ReconfPrepFDD
DSCH ModifyInformationItem RL ReconfPrepFDD ::= SEQUENCE {
   dSCH-ID
                                     DSCH-ID,
   trChSourceStatisticsDescriptor
                                     TrCH-SrcStatisticsDescr OPTIONAL,
  - transportFormatSet
                                     TransportFormatSet
                                                                   OPTIONAL.
AllocationRetentionPriority
                                                                  -OPTIONAL,
  -schedulingPriorityIndicator
                                     SchedulingPriorityIndicator
                                                                   OPTIONAL,
  ht.ER
                                     BLER
                                                                   OPTIONAL,
  transportBearerRequestIndicator
                                     TransportBearerRequestIndicator,
ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
```

```
+
DSCH-ModifvInformationItem-RL-ReconfPrepFDD-ExtIEs_RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TrafficClass CRITICALITY ignore EXTENSION TrafficClass
                                                                                   -PRESENCE optional }|
    TD id-BindingID
                                       CRITICALITY ignore
                                                             EXTENSION BindingID
                                                                                       DRESENCE
                                                                                                         optional }|
    - Shall be ignored if bearer establishment with ALCAP.
   { ID id TransportLayerAddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
    --- Shall be ignored if bearer establishment with ALCAP.
+
DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE {
  dSCH-Information
                                   - iE-Extensions
                                    -ProtocolExtensionContainer { {DSCH Delete RL ReconfPrepFDD ExtIEs} } OPTIONAL,
+
DSCH-Delete-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
+
DSCH Info Delete RL ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH DeleteInformationItem RL REconfPrepFDD
DSCH-DeleteInformationItem-RL-REconfPrepFDD ::= SEQUENCE {
  dSCH ID
                                   DSCH ID.
                                ProtocolExtensionContainer { {DSCH DeleteInformationItem RL ReconfPrepFDD ExtIEs } } OPTIONAL,
  - iE-Extensions
DSCH DeleteInformationItem RL ReconfPrepFDD ExtIEs RNSAP PROTOCOL EXTENSION ::= {
+
                                    ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-ReconfPrepFDD-
RL-InformationList-RL-ReconfPrepFDD
IEs} }
RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepFDD
                                                                                                   PRESENCE mandatory
RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   rL-TD
                            RL-TD.
                           SSDT-Indication
   sSDT-Indication
                                                   OPTIONAL.
   sSDT-CellIdentity
                                SSDT-CellID
                                              OPTIONAL
   -- The IE shall be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
   transmitDiversityIndicator TransmitDiversityIndicator
                                                             OPTIONAL,
   -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and is not equal to "none"
                                ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

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-- This IE shall be present if Enhanced DSCH PC IE is present in either the DSCHs to Modify IE or the DSCHs to Add IE. ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } ID id-Oth-Parameter CRITICALITY ignore EXTENSION Oth-Parameter PRESENCE optional }| ID id-Phase-Reference-Update-Indicator CRITICALITY ignore EXTENSION Phase-Reference-Update-Indicator PRESENCE optional }, . . . } RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information PRESENCE optional } | ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify PRESENCE optional } ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional} ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional } ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional } ID id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation CRITICALITY ignore EXTENSION UE-Support-Of-Dedicated-Pilots-For-Channel-PRESENCE optional} Estimation { ID id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH CRITICALITY ignore EXTENSION UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH PRESENCE optional },

ι

. . .

UNCHANGED TEXT IS REMOVED

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```
_ _
-- RADIO LINK RECONFIGURATION READY FDD
_ _
   RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkReconfigurationReadvFDD-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}}
                                                                                                                       OPTIONAL,
RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReadyFDD
                                                                                                                           PRESENCE
optional }
   { ID id-CriticalityDiagnostics
                                        CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                          PRESENCE optional },
   . . .
RL-InformationResponseList-RL-ReconfReadyFDD
                                                ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-
ReconfReadyFDD-IEs } }
RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD
                                                                                                                           PRESENCE
mandatory }
}
RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
   rL-ID
                                    RL-ID,
   max-UL-SIR
                                    UL-SIR
                                                    OPTIONAL,
   min-UL-SIR
                                    UL-SIR
                                                    OPTIONAL,
   maximumDLTxPower
                                    DL-Power
                                                   OPTIONAL,
   minimumDLTxPower
                                    DL-Power
                                                   OPTIONAL,
   secondary-CCPCH-Info
                                    Secondary-CCPCH-Info
                                                                                 OPTIONAL,
   dl-CodeInformationList
                                    DL-CodeInformationList-RL-ReconfReadyFDD
                                                                                 OPTIONAL,
                                    DCH-InformationResponseList-RL-ReconfReadyFDD
   dCHInformationResponse
                                                                                 OPTIONAL,
   not-Used-dSCHsToBeAddedOrModified
                                    OPTIONAL,
                                    ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-UpdatedIndicator
                                                   CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
                                                                                                                   PRESENCE optional }
     ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation PRESENCE optional
}|
    { ID id-Secondary-CPICH-Information-Change
                                                   CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change
                                                                                                                        PRESENCE optional
},
   . . .
DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }}
```

DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {

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{ ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation PRESENCE mandatory } } ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} } DCH-InformationResponseList-RL-ReconfReadyFDD DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= { { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory } DSCHsToBeAddedOrModified RL ReconfReadyFDD ::= ProtocollE Single Container { {DSCHsToBeAddedOrModifiedIEs RL ReconfReadyFDD } DSCHsToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= { +RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DSCH-RNTI CRITICALITY ignore PRESENCE optional }| EXTENSION DSCH-RNTI ID id-HSDSCH-RNTI PRESENCE optional } CRITICALITY ignore EXTENSION HSDSCH-RNTI ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional }| CRITICALITY ignore ID id-MAChs-ResetIndicator EXTENSION MAChs-ResetIndicator PRESENCE optional }, . . .

UNCHANGED TEXT IS REMOVED

Information Element Definitions 9.3.4 ____ _ _ -- Information Element Definitions _ _ RNSAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxCodeNumComp-1, maxNrOfFACHs, maxFACHCountPlus1, maxIBSEG, maxNoOfDSCHs, -maxNoOfDSCHs-1, maxNoOfUSCHs, maxNoTFCIGroups, -maxNoCodeGroups, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR maxNrOfDPCHs, maxNrOfDPCHsLCR, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC, maxNrOfMACcshSDU-Length, maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC, maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfRLs, maxNrOfTFCs, maxNrOfTFs, maxCTFC, maxRNCinURA-1, maxNrOfSCCPCHs, - maxTFCI1Combs,

maxTFCI2Combs, maxTFCI2Combs-1. maxTGPS. maxTTI-Count, maxNoGPSTypes, maxNoSat, maxNrOfSNAs, maxNrOfHAROProc, maxNrOfHSSCCHCodes, maxNrOfMACdFlows, maxNrOfMACdFlows-1, maxNrOfPDUIndexes, maxNrOfPDUIndexes-1, maxNrOfPrioQueues, maxNrOfPrioOueues-1, maxNrOfSatAlmanac-maxNoSat, id-Allowed-Rate-Information, id-AntennaColocationIndicator, id-BindingID, id-Cell-Capacity-Class-Value, id-CellCapabilityContainer-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-CoverageIndicator, id-DPC-Mode-Change-SupportIndicator, id-GERAN-Cell-Capability, id-GERAN-Classmark, id-Guaranteed-Rate-Information, id-HCS-Prio, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-NRT-Load-Information-Value, id-NRT-Load-Information-Value-IncrDecrThres, id-OnModification, id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-RT-Load-Value, id-RT-Load-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-SNA-Information, id-TrafficClass, id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels, maxNrOfMeasNCell,

maxNrOfMeasNCell-1, id-MessageStructure, id-EnhancedDSCHPC, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TransportLayerAddress, id-TypeOfError, id-Angle-Of-Arrival-Value-LCR, id-IPDL-TDD-ParametersLCR, id-DSCH-InitialWindowSize, id-Maximum-DL-Power-TimeslotLCR-InformationItem, id-Minimum-DL-Power-TimeslotLCR-InformationItem, id-HS-SICH-Reception-Quality, id-HS-SICH-Reception-Quality-Measurement-Value, id-ExtendedGSMCellIndividualOffset, id-Unidirectional-DCH-Indicator, id-RTLoadValue, id-NRTLoadInformationValue, id-Satellite-Almanac-Information-ExtItem, id-TnlOos

FROM RNSAP-Constants

UNCHANGED TEXT IS REMOVED

```
-- C
```

UNCHANGED TEXT IS REMOVED

```
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}
CodeNumber ::= INTEGER (0..maxCodeNumComp 1)
CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}
```

UNCHANGED TEXT IS REMOVED

```
-- D
```

DATA-ID ::= INTEGER (0..3)

UNCHANGED TEXT IS REMOVED

DRXCycleLengthCoefficient -- See in [16] ::= INTEGER (3..9)

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ÐSCH	I FDD Information::= SEQUENCE {					
	dSCH-Specific-Information	DSCH-Specific-FDD-Item,				
	This DSCH-Specific-FDD-Item is the	first DSCH-Specific-FDD-Ite	m in DSCH-FDD	-Information. If more	than one DSCH-Spec	ific-FDD-Item;s should be
defi	ined in a DSCH-FDD-Information, fro	m 2 nd DSCH-Specific-FDD Item	, they will k	e included in the DSC	CH-Specific-FDD-Addi	tional-List in the DSCH-FDD-
Infe	ormation-ExtIEs.					
	pdSCH-RL-ID	RL-ID,				
	tFCS	TFCS,				
	iE Extensions		r { {DSCH-FDD	-Information ExtIEs}		
	····	110000012000012000000000000000000000000	- ((20001122		,,	
}						
J						
DOCL	I FDD Information ExtIEs RNSAP PROT	OCOL - EXTENSION ··- ∫				
DBCI	{ ID id DSCH Specific FDD Addition		odogt EVTENS	TON DECH-Sportfig-EDD	-Additional-Ligt	PRESENCE optional }
	{ ID id EnhancedDSCHPC					÷ , , , , , , , , , , , , , , , , , , ,
		CRITICALITI IGNOLE EXIEN	STON Ennanced	Dechec	PRESENCE OPLIGHAL	
}	•••					
Ť						
500						
DSCE	H-RNTI ::= INTEGER (065535)					
	I Specific FDD Item ::= SEQUENCE {					
	dSCH-ID					
	trChSourceStatisticsDescriptor	TrCH-SrcStatisticsDescr,				
	transportFormatSet	TransportFormatSet,				
	allocationRetentionPriority	-AllocationRetentionPriori	ty,			
	schedulingPriorityIndicator	-SchedulingPriorityIndicat	or,			
	bler	BLER,				
	iE-Extensions	ProtocolExtensionContaine	r { {DSCH-Spe	cific-FDD-Item-ExtIEs	+ }}OPTIONAL,	
}						
1						
DSCH	I-Specific-FDD-Item-ExtIEs RNSAP-PR)TOCOL-EXTENSION ∶:= {				
	{ ID id-TrafficClass CRITIC		fficClass		+	
	{ ID id-BindingID	CRITICALITY ignore		BindingID PRE		cional }+
	Shall be ignored if bearer esta					
	{ ID id TransportLayerAddress	CRITICALITY ignore	EXTENSION		ss PRESENCE	optional },
		2	DATENDION	iranspor chay craare	.55 TREBENCE	operonar j,
	2	originatic wran AleAr.				
+						
1						
DOCL	I-Specific-FDD-Additional-List ::=	SECTENCE (STZE(1 movNoOfDS		CH_Sposifis_FDD_Itom		
Doer		SEQUENCE (SIZE(IMAXNOULDS	$\frac{CHS-1}{DS}$	en-specific-rbb-reem		
DOOL	I EDD InformationDecrements (EQUE					
	I FDD InformationResponse ::= SEQUE	•				
	dsch Specific InformationResponse		tionkesponse,			
	pdSCHCodeMapping					
	iE-Extensions		r ({ DSCH-FD	u-informationKesponse	- EXTIES} } OPTIONAL	T
						
}						
			<i>(</i>			
DSCI	I-FDD-InformationResponse-ExtIEs RN	SAP PROTOCOL EXTENSION ::=	t			
	····					
}						

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DSCH-Specific-FDD-InformationResponse ::= SEQUENCE (SIZE(1...maxNoOfDSCHs)) OF DSCH-Specific-FDD-Response-Item

DSCH-Specific-FDD-Response-Item ::= SEOUENCE {

<u> dSCH-FlowControlInformation</u>	DSCH-FlowControlInforma	ation,
bindingID	BindingID	- OPTIONAL,
transportLayerAddress	TransportLayerAddress	- OPTIONAL,
		iner { {DSCH Specific FDD Response Item ExtIEs} } OPTIONAL,
}		
DSCH-Specific-FDD-Response-Item-Ex	ties RNSAP-PROTOCOL-EXTER	NSION ::= {
		

DSCH-FlowControlInformation ::= SEQUENCE (SIZE(1..16)) OF DSCH-FlowControlItem

UNCHANGED TEXT IS REMOVED

-- E

```
EnhancedDSCHPC ::= SEQUENCE {
  enhancedDSCHPCWnd EnhancedDSCHPCWnd,
____
   -enhancedDSCHPCCounter EnhancedDSCHPCCounter.
   -enhancedDSCHPowerOffset EnhancedDSCHPowerOffset,
   . . .
}
EnhancedDSCHPCCounter ::= INTEGER (1..50)
EnhancedDSCHPCIndicator ::= ENUMERATED {
}
EnhancedDSCHPCWnd ::= INTEGER (1..10)
EnhancedDSCHPowerOffset ::= INTEGER (-15..0)
Enhanced-PrimaryCPICH-EcNo
                             ::= INTEGER (0..49)
UNCHANGED TEXT IS REMOVED
-- L
LAC
                 ::= OCTET STRING (SIZE (2)) --(EXCEPT ('0000'H|'FFFE'H))
   used,
```

UNCHANGED TEXT IS REMOVED

LengthOfTFCI2 ::= INTEGER(1..10)

```
LimitedPowerIncrease ::= ENUMERATED {
```

not-used

UNCHANGED TEXT IS REMOVED

-- M

}

UNCHANGED TEXT IS REMOVED

MaxNrULPhysicalchannels ::= INTEGER (1..2)

MaxTFCIvalue ::= INTEGER (1..1023)

MeasurementFilterCoefficient ::= ENUMERATED{k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement

::= INTEGER (0..1048575) MeasurementID Measurement-Power-Offset ::= INTEGER(-12 .. 26) -- Actual value = IE value * 0.5 MinimumSpreadingFactor ::= INTEGER (1..16) \rightarrow := INTEGER (1..16) Multi-code-info MultipleURAsIndicator ::= ENUMERATED { multiple-URAs-exist, single-URA-exists } UNCHANGED TEXT IS REMOVED -- P UNCHANGED TEXT IS REMOVED PC-Preamble ::= INTEGER(0..7,...) PDSCHCodeMapping ::= SEQUENCE { -DL-ScramblingCode, -ProtocolExtensionContainer { { PDSCHCodeMapping Extles} } OPTIONAL, ... + PDSCHCodeMapping-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { } PDSCHCodeMapping SignallingMethod ::= CHOICE { PDSCHCodeMapping-SignallingMethod-CodeRange, -pDSCHCodeMapping-SignallingMethod-TFCIRange PDSCHCodeMapping-SignallingMethod-TFCIRange, -pDSCHCodeMapping-SignallingMethod-Explicit PDSCHCodeMapping_SignallingMethod_Explicit,

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<u> </u>	
	ingMethod Replace PDSCHCodeMapping SignallingMethod Replace
→	
7	
	<pre>lethod-CodeRange ::= SEQUENCE (SIZE (1maxNoCodeGroups)) OF</pre>
<u> </u>	
	SpreadingFactor,
	Multi code info,
start_CodeNumber	
	CodeNumber,
<u>iE-Extensions</u>	ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-CodeRange-ExtIEs } } OPTIONAL,
	The contract of the contract o
••••	
	
PDSCHCodeMapping_SignallingM	lethod_CodeRange_ExtIEs_RNSAP_PROTOCOL_EXTENSION_::= {
+	
·	
DDSCHCodoManning_SignallingM	<pre>lethod TFCIRange ::= SEQUENCE (SIZE (1maxNoTFCIGroups)) OF</pre>
	CHOU IFCINANCE (SIZE (I MAXNOFFCIGLOUPS)) OF
SEQUENCE {	
<u>maxTFCIvalue</u>	MaxTFCIvalue,
	SpreadingFactor,
multi-code-info	
codeNumber	CodeNumber,
	ProtocolExtensionContainer { { PDSCHCodeMapping SignallingMethod TFCIRange ExtIEs } } OPTIONAL,
	riocoordatensioncontarner ((rissencoacempping signaringmethoa riermange aktras) ; orriomal,
	
PDSCHCodeMapping-SignallingM	lethod-TFCIRange-ExtIEs_RNSAP-PROTOCOL-EXTENSION_::= {
+	
·	
DDSCUCodoManning_Signalling	Hethod Explicit ::= SEQUENCE (SIZE (1maxTFCI2Combs)) OF
	HETHOU EXPIRENCE (SIZE (I. MAXIFEIZCOMDS)) OF
	SpreadingFactor,
	Multi code info,
1	
PDSCHCodeMapping SignallingM	Method Explicit Extles RNSAP PROTOCOL EXTENSION ::= {
	
+	
·	
DDSCHCodeManning_SignallingM	lethod-Replace ::= SEQUENCE (SIZE (1maxTFCI2Combs)) OF
	Conor Replace () = Digeneed () = (1makir() = 200mbb/) of
tfci-Field2	TFCS MaxTFCI field2 Value,
	SpreadingFactor,
	Multi-code info,
	CodeNumber,
	ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-Replace-ExtIEs} } OPTIONAL,
····	

```
}
PDSCHCodeMapping-SignallingMethod-Replace-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
Periodic ::= SEQUENCE {
                           ReportPeriodicity,
   reportPeriodicity
   iE-Extensions
                           ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    . . .
}
Periodic-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UNCHANGED TEXT IS REMOVED
-- S
UNCHANGED TEXT IS REMOVED
SpecialBurstScheduling ::= INTEGER (1..256)
SplitType ::= ENUMERATED {
-hard,
---logical
}
SpreadingFactor ::= INTEGER (4 8 16 32 64 128 256)
S-RNTI
                       ::= INTEGER (0..1048575)
-- From 0 to 2^20-1
UNCHANGED TEXT IS REMOVED
-- T
UNCHANGED TEXT IS REMOVED
TFCI-Coding ::= ENUMERATED {
   v4,
    v8,
    v16,
    v32,
    . . .
}
```

```
TFCI PC SupportIndicator ::= ENUMERATED {
    tFCI-PC-model-supported,
    tFCI-PC-mode2-supported
}
```

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```
TFCI-Presence ::= ENUMERATED {
    present,
    not-present
}
TFCI-SignallingMode ::= ENUMERATED {
    normal,
    not-Used-split
-- The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.
UNCHANGED TEXT IS REMOVED
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors
                          SEOUENCE {
       betaC
                                BetaCD,
       betaD
                                BetaCD,
        refTFCNumber
                                RefTFCNumber
                                                OPTIONAL,
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
    },
    refTFCNumber
                            RefTFCNumber,
    . . .
SignalledGainFactors-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS ::= SEOUENCE {
    tFCSvalues
                        CHOICE {
        always-Used-no-Split-in-TFCI
                                                TFCS-TFCSList,
        not-Used-split-in-TFCI
                                                NULLSEQUENCE {
            transportFormatCombination-DCH
                                                 TFCS-DCHList,
            signallingMethod
                                                CHOICE {
                tFCI-Range
                                                TFCS MapingOnDSCHList,
                                                   explicit
            }_
                                                ProtocolExtensionContainer { { Split-in-TFCI-ExtIEs} } OPTIONAL,
            iE-Extensions
        -- This choice shall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.
        . . .
    ł.,
    iE-Extensions
                        ProtocolExtensionContainer { { TFCS-ExtIEs } }
                                                                             OPTIONAL,
    . . .
Split-in-TFCI-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
+
```

```
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
   SEOUENCE {
      CTFC
                       TFCS-CTFC,
      tFC-Beta
               TransportFormatCombination-Beta OPTIONAL,
      -- The IE shall be present if the TFCS concerns a UL DPCH [FDD - or PRACH channel in FDD]
      iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }
                                                                        OPTIONAL,
   . . .
}
TFCS-TFCSList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
TFCS-CTFC ::= CHOICE {
   ctfc2bit
                                 INTEGER (0..3),
   ctfc4bit
                                 INTEGER (0..15),
   ctfc6bit
                                 INTEGER (0..63),
   ctfc8bit
                                 INTEGER (0..255),
   ctfc12bit
                                 INTEGER (0..4095),
   ctfc16bit
                                 INTEGER (0..65535),
   ctfcmaxbit
                                 INTEGER (0..maxCTFC)
}
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCI1Combs)) OF
TFCS-CTFC,
    _____
}
TFCS DCHList Extles RNSAP PROTOCOL EXTENSION ::= {
}
TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
maxTFCI field2 Value TFCS MaxTFCI field2 Value,
    CTFC-DSCH TFCS-CTFC,
                         ProtocolExtensionContainer { { TFCS MapingOnDSCHList ExtIEs } } OPTIONAL,
   +
TFCS MapingOnDSCHList ExtIEs RNSAP PROTOCOL EXTENSION ::= {
}
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)
```

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```
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
CTFC-DSCH
                                  TFCS-CTFC.
                                    ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs} }
                                                                                                         OPTIONAL,
        ....
}
TFCS DSCHList Extles RNSAP PROTOCOL EXTENSION ::= {
    • • •
}
TransportFormatSet ::= SEQUENCE {
    dynamicPartsTransportFormatSet-DynamicPartList,semi-staticPartTransportFormatSet-Semi-staticPart,iE-ExtensionsProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    . . .
}
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

UNCHANGED TEXT IS REMOVED

9.3.6 Constant Definitions -- Constant definitions ***** RNSAP-Constants { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes; _ _ -- Elementary Procedures _ _ id-commonTransportChannelResourcesInitialisation ProcedureCode ::= 0 id-commonTransportChannelResourcesRelease ProcedureCode ::= 1id-compressedModeCommand ProcedureCode ::= 2id-downlinkPowerControl ProcedureCode ::= 3 id-downlinkPowerTimeslotControl ProcedureCode ::= 4id-downlinkSignallingTransfer ProcedureCode ::= 5 id-errorIndication ProcedureCode ::= 6id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 id-dedicatedMeasurementReporting ProcedureCode ::= 9 ${\it id-dedicated} {\tt Measurement} {\tt Termination}$ ProcedureCode ::= 10id-paging ProcedureCode ::= 11 id-physicalChannelReconfiguration ProcedureCode ::= 12 id-privateMessage ProcedureCode ::= 13 id-radioLinkAddition ProcedureCode ::= 14 id-radioLinkCongestion ProcedureCode ::= 34 id-radioLinkDeletion ProcedureCode ::= 15 id-radioLinkFailure ProcedureCode ::= 16 id-radioLinkPreemption ProcedureCode ::= 17 id-radioLinkRestoration ProcedureCode ::= 18 id-radioLinkSetup ProcedureCode ::= 19id-relocationCommit ProcedureCode ::= 20 ${\it id-synchronised} Radio {\it Link} Reconfiguration Cancellation$ ProcedureCode ::= 21 ProcedureCode ::= 22 id-synchronisedRadioLinkReconfigurationCommit ProcedureCode ::= 23

id-synchronisedRadioLinkReconfigurationPreparation

id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 24
id-uplinkSignallingTransfer	ProcedureCode ::= 25
id-commonMeasurementFailure	ProcedureCode ::= 26
id-commonMeasurementInitiation	ProcedureCode ::= 27
id-commonMeasurementReporting	ProcedureCode ::= 28
id-commonMeasurementTermination	ProcedureCode ::= 29
id-informationExchangeFailure	ProcedureCode ::= 30
id-informationExchangeInitiation	ProcedureCode ::= 31
id-informationReporting	ProcedureCode ::= 32
id-informationExchangeTermination	ProcedureCode ::= 33
id-reset	ProcedureCode ::= 35
id-radioLinkActivation	ProcedureCode ::= 36
id-gERANuplinkSignallingTransfer	ProcedureCode ::= 37
id-radioLinkParameterUpdate	ProcedureCode ::= 38

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

- ------ 1 ---
- -- Lists

maxCodeNumComp-1	INTEGER ::= 255
maxRateMatching	INTEGER ::= 256
maxNoCodeGroups	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNoTFCIGroups	INTEGER ::= 256
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLSets-1	INTEGER ::= 15 maxNrOfRLSets - 1
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215

maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfFACHs	INTEGER ::= 8
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256
maxFACHCountPlus1	INTEGER ::= 10
maxIBSEG	INTEGER ::= 16
maxNrOfSCCPCHs	INTEGER ::= 8
maxTFCI1Combs	INTEGER ::= 512
maxTFCI2Combs	INTEGER ::= 1024
maxTFCI2Combs-1	<u>INTEGER ::= 1023</u>
maxTGPS	INTEGER ::= 6
maxNrOfTS	INTEGER ::= 15
maxNrOfLevels	INTEGER ::= 256
maxNoOfDSCHs 1	INTEGER ::= 9
maxNrOfTsLCR	INTEGER ::= 6
maxNoSat	INTEGER ::= 16
maxNoGPSTypes	INTEGER ::= 8
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxResetContext	INTEGER ::= 250
maxResetContextGroup	INTEGER ::= 32
maxNrOfHARQProc	INTEGER ::= 8
maxNrOfHSSCCHCodes	INTEGER ::= 4
maxNrOfHSSICHs	INTEGER ::= 4
maxNrOfMACdFlows	INTEGER ::= 8
maxNrOfMACdFlows-1	INTEGER ::= 7 maxNrOfMACdFlows - 1
maxNrOfPDUIndexes	INTEGER ::= 8
maxNrOfPDUIndexes-1	INTEGER ::= 7 maxNrOfPDUIndexes - 1
maxNrOfPrioQueues	INTEGER ::= 8
maxNrOfPrioQueues-1	INTEGER ::= 7 maxNrOfPrioQueues - 1
maxNrOfSNAs	INTEGER ::= 65536
maxNrOfSatAlmanac-maxNoSat	INTEGER ::= 16

IEs	
************************************	**********
id-AllowedQueuingTime	ProtocolIE-ID ::= 4
id-Allowed-Rate-Information	ProtocolIE-ID ::= 42
id-AntennaColocationIndicator	ProtocolIE-ID ::= 309
id-BindingID	ProtocolIE-ID ::= 5
id-C-ID	ProtocolIE-ID ::= 6
id-C-RNTI	ProtocolIE-ID ::= 7
id-Cell-Capacity-Class-Value	ProtocolIE-ID ::= 303
id-CFN	ProtocolIE-ID ::= 8
id-CN-CS-DomainIdentifier	ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9
id-CN-PS-DomainIdentifier	Protocolie-iD ···= 9 Protocolie-ID ···= 10
id-Cause	Protocolie-iD ···= 10 Protocolie-ID ···= 11
id-Cause id-CoverageIndicator	ProtocoliE-ID ··= II ProtocoliE-ID ·:= 310
	ProtocolIE-ID ::= 20
id-CriticalityDiagnostics	PIOLOCOILE-ID ··= 20

id-ContextInfoItem-Reset id-ContextGroupInfoItem-Reset id-D-RNTI id-D-RNTI-ReleaseIndication id-DCHs-to-Add-FDD id-DCHs-to-Add-TDD id-DCH-DeleteList-RL-ReconfPrepFDD id-DCH-DeleteList-RL-ReconfPrepTDD id-DCH-DeleteList-RL-ReconfRqstFDD id-DCH-DeleteList-RL-ReconfRgstTDD id-DCH-FDD-Information id-DCH-TDD-Information id-FDD-DCHs-to-Modify id-TDD-DCHs-to-Modify id-DCH-InformationResponse id-DCH-Rate-InformationItem-RL-CongestInd id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-DL-CCTrCH-InformationList-RL-SetupRgstTDD id-FDD-DL-CodeInformation id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-SetupRqstFDD id-DL-DPCH-Information-RL-ReconfRgstFDD id-DL-DPCH-InformationItem-PhvChReconfRgstTDD id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DL-DPCH-TimingAdjustment id-DLReferencePower id-DLReferencePowerList-DL-PC-Rqst id-DL-ReferencePowerInformation-DL-PC-Rqst id-DPC-Mode id-DRXCycleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Fail-Ind id-DedicatedMeasurementObjectType-DM-Fail id-DedicatedMeasurementObjectTvpe-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rqst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMSI id-HCS-Prio id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep

ProtocolIE-ID ::= 211 ProtocolIE-ID ::= 515 ProtocolIE-ID ::= 21 ProtocolIE-ID ::= 22 ProtocolIE-ID ::= 26 ProtocolIE-ID ::= 27 ProtocolIE-ID ::= 30 ProtocolIE-ID ::= 31 ProtocolIE-ID ::= 32 ProtocolIE-ID ::= 33 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 40 ProtocolIE-ID ::= 43 ProtocolIE-ID ::= 38 ProtocolIE-ID ::= 44 ProtocolIE-ID ::= 45 ProtocolIE-ID ::= 46 ProtocolIE-ID ::= 47 ProtocolIE-ID ::= 48 ProtocolIE-ID ::= 49 ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 278 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 470 ProtocolIE-ID ::= 471 ProtocolTE-TD ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 311 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91

id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-NRT-Load-Information-Value id-NRT-Load-Information-Value-IncrDecrThres id-PagingArea-PagingRgst id-FACH-FlowControlInformation id-PartialReportingIndicator id-Permanent-NAS-UE-Identity id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRgstFDD id-RL-Information-PhyChReconfRgstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRqstFDD id-RL-Information-RL-SetupRqstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rqst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-CongestInd id-RL-InformationList-RL-AdditionRgstFDD id-RL-InformationList-RL-DeletionRqst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadyTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadyFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-RL-Set-Successful-InformationItem-DM-Fail

ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 305 ProtocolIE-ID ::= 306 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 472 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolTE-TD := 134ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 473

id-RL-Set-Unsuccessful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind id-RL-Successful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail-Ind id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RT-Load-Value id-RT-Load-Value-IncrDecrThres id-S-RNTT id-ResetIndicator id-RNC-ID id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLayerAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRqstFDD id-UL-DPCH-Information-RL-SetupRqstFDD id-UL-DPCH-InformationItem-PhyChReconfRqstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD

ProtocolIE-ID ::= 474 ProtocolIE-ID ::= 475 ProtocolIE-ID ::= 476 ProtocolIE-ID ::= 477 ProtocolIE-ID ::= 478 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 307 ProtocolIE-ID ::= 308 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 244 ProtocolIE-ID ::= 245 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolTE-TD := 140ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolTE-TD ::= 190ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208

id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-DSCHs-to-Add-TDD id-Unused-ProtocolIE-ID-216DSCHs to Add FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-218DSCH Delete RL ReconfPrepFDD id-Unused-ProtocolIE-ID-219DSCH FDD Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-Unused-Protocol IE-ID-223DSCH_FDD_InformationResponse id-Unused-ProtocolIE-ID-226DSCH Information RL SetupRqstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-228DSCH-Modify-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-324DSCH-Specific-FDD-Additional-List id-Unused-ProtocolIE-ID-229DSCHsToBeAddedOrModified FDD id-DSCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-Unused-ProtocolIE-ID-29EnhancedDSCHPC id-Unused-ProtocolIE-ID-225EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-Unused-ProtocolIE-ID-246SSDT-CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRqstTDD id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRqst id-InnerLoopDLPCStatus id-PropagationDelay

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ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 -ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 -ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 324 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 -ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 225 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 246 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270 ProtocolTE-TD ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25

id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rgst id-CommonMeasurementObjectTvpe-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD id-TSTD-Support-Indicator-RL-SetupRqstTDD id-RestrictionStateIndicator id-Load-Value id-Load-Value-IncrDecrThres id-OnModification id-Received-Total-Wideband-Power-Value id-Received-Total-Wideband-Power-Value-IncrDecrThres id-SFNSFNMeasurementThresholdInformation id-Transmitted-Carrier-Power-Value id-Transmitted-Carrier-Power-Value-IncrDecrThres id-TUTRANGPSMeasurementThresholdInformation

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id-UL-Timeslot-ISCP-Value id-UL-Timeslot-ISCP-Value-IncrDecrThres id-Rx-Timing-Deviation-Value-LCR id-DPC-Mode-Change-SupportIndicator id-Unused-ProtocolIE-ID-247SplitType id-Unused-ProtocolIE-ID-295LengthOfTFCI2 id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD id-DSCH-RNTT id-DL-PowerBalancing-Information id-DL-PowerBalancing-ActivationIndicator id-DL-PowerBalancing-UpdatedIndicator id-DL-ReferencePowerInformation id-Enhanced-PrimaryCPICH-EcNo id-IPDL-TDD-ParametersLCR id-CellCapabilityContainer-FDD id-CellCapabilityContainer-TDD id-CellCapabilityContainer-TDD-LCR id-RL-Specific-DCH-Info id-RL-ReconfigurationRequestFDD-RL-InformationList id-RL-ReconfigurationRequestFDD-RL-Information-IEs id-RL-ReconfigurationRequestTDD-RL-Information id-CommonTransportChannelResourcesInitialisationNotRequired id-DelayedActivation id-DelayedActivationList-RL-ActivationCmdFDD id-DelayedActivationInformation-RL-ActivationCmdFDD id-DelayedActivationList-RL-ActivationCmdTDD id-DelayedActivationInformation-RL-ActivationCmdTDD id-neighbouringTDDCellMeasurementInformationLCR id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD id-PrimCCPCH-RSCP-DL-PC-RgstTDD id-HSDSCH-FDD-Information id-HSDSCH-FDD-Information-Response id-HSDSCH-FDD-Update-Information id-HSDSCH-Information-to-Modify id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd id-HSDSCH-RNTI id-HSDSCH-TDD-Information id-HSDSCH-TDD-Information-Response id-HSDSCH-TDD-Update-Information id-HSPDSCH-RL-ID id-HSDSCH-MACdFlows-to-Add id-HSDSCH-MACdFlows-to-Delete id-Angle-Of-Arrival-Value-LCR id-TrafficClass id-Unused-ProtocolIE-ID-248TFCI-PC-SupportIndicator id-Oth-Parameter id-PDSCH-RL-ID id-TimeSlot-RL-SetupRspTDD id-GERAN-Cell-Capability

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ProtocolIE-ID ::= 242 ProtocolIE-ID ::= 243 ProtocolIE-ID ::= 293 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 247 ProtocolIE-ID ::= 295 ProtocolIE-ID ::= 202 ProtocolIE-ID ::= 203 ProtocolIE-ID ::= 204 ProtocolIE-ID ::= 249 ProtocolIE-ID ::= 296 ProtocolIE-ID ::= 297 ProtocolIE-ID ::= 298 ProtocolIE-ID ::= 299 ProtocolIE-ID ::= 224 ProtocolIE-ID ::= 252 ProtocolIE-ID ::= 300 ProtocolIE-ID ::= 301 ProtocolIE-ID ::= 302 ProtocolIE-ID ::= 317 ProtocolIE-ID ::= 318 ProtocolIE-ID ::= 319 ProtocolIE-ID ::= 321 ProtocolIE-ID ::= 250 ProtocolIE-ID ::= 312 ProtocolIE-ID ::= 313 ProtocolIE-ID ::= 314 ProtocolIE-ID ::= 315 ProtocolIE-ID ::= 316 ProtocolIE-ID ::= 251 ProtocolIE-ID ::= 150 ProtocolIE-ID ::= 151 ProtocolIE-ID ::= 451 ProtocolIE-ID ::= 452 ProtocolIE-ID ::= 453 ProtocolIE-ID ::= 466 ProtocolIE-ID ::= 456 ProtocolIE-ID ::= 516 ProtocolIE-ID ::= 517 ProtocolIE-ID ::= 457 ProtocolIE-ID ::= 458 ProtocolIE-ID ::= 459 ProtocolIE-ID ::= 467 ProtocolIE-ID ::= 463 ProtocolIE-ID ::= 531 ProtocolIE-ID ::= 532 ProtocolIE-ID ::= 148 ProtocolIE-ID ::= 158 ProtocolIE-ID ::= 248 ProtocolIE-ID ::= 253 ProtocolIE-ID ::= 323 ProtocolIE-ID ::= 325 ProtocolIE-ID ::= 468

id-TnlQos

id-GERAN-Classmark ProtocolIE-ID ::= 469 id-DSCH-InitialWindowSize ProtocolIE-ID ::= 480 id-UL-Synchronisation-Parameters-LCR ProtocolIE-ID ::= 464 id-SNA-Information id-MAChs-ResetIndicator id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD id-TDD-UL-DPCH-TimeSlotFormatModifvItem-LCR-RL-ReconfReadyTDD id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD id-UL-CCTrCH-InformationItem-RL-AdditionRgstTDD id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD id-DL-CCTrCH-InformationItem-RL-AdditionRqstTDD id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD id-UL-TimingAdvanceCtrl-LCR id-HSPDSCH-Timeslot-InformationList-PhvChReconfRgstTDD id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRgstTDD id-HS-SICH-Reception-Quality id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD id-DL-CCTrCH-InformationList-RL-ReconfRspTDD id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD id-Maximum-DL-Power-TimeslotLCR-InformationItem id-Minimum-DL-Power-TimeslotLCR-InformationItem id-TDD-Support-8PSK id-TDD-maxNrDLPhysicalchannels id-ExtendedGSMCellIndividualOffset id-RL-ParameterUpdateIndicationFDD-RL-InformationList id-Primary-CPICH-Usage-For-Channel-Estimation id-Secondary-CPICH-Information-Change id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH id-RL-ParameterUpdateIndicationFDD-RL-Information-Item id-Phase-Reference-Update-Indicator id-Unidirectional-DCH-Indicator id-RL-Information-RL-ReconfPrepTDD id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD id-RL-ReconfigurationResponseTDD-RL-Information id-Satellite-Almanac-Information-ExtItem id-HSDSCH-Information-to-Modify-Unsynchronised

ProtocolIE-ID ::= 479 ProtocolIE-ID ::= 465 ProtocolIE-ID ::= 481 ProtocolIE-ID ::= 482 ProtocolIE-ID ::= 483 ProtocolIE-ID ::= 484 ProtocolIE-ID ::= 485 ProtocolIE-ID ::= 486 ProtocolIE-ID ::= 487 ProtocolIE-ID ::= 488 ProtocolIE-ID ::= 489 ProtocolIE-ID ::= 490 ProtocolIE-ID ::= 491 ProtocolIE-ID ::= 492 ProtocolIE-ID ::= 493 ProtocolIE-ID ::= 494 ProtocolIE-ID ::= 495 ProtocolIE-ID ::= 496 ProtocolIE-ID ::= 497 ProtocolIE-ID ::= 498 ProtocolIE-ID ::= 499 ProtocolIE-ID ::= 500 ProtocolIE-ID ::= 501 ProtocolIE-ID ::= 502 ProtocolIE-ID ::= 503 ProtocolIE-ID ::= 504 ProtocolIE-ID ::= 505 ProtocolIE-ID ::= 506 ProtocolIE-ID ::= 507 ProtocolIE-ID ::= 508 ProtocolIE-ID ::= 509 ProtocolIE-ID ::= 510 ProtocolIE-ID ::= 511 ProtocolIE-ID ::= 512 ProtocolIE-ID ::= 513 ProtocolIE-ID ::= 514 ProtocolIE-ID ::= 518 ProtocolIE-ID ::= 519 ProtocolTE-TD ::= 521 ProtocolIE-ID ::= 522 ProtocolIE-ID ::= 523 ProtocolIE-ID ::= 524 ProtocolIE-ID ::= 525 ProtocolIE-ID ::= 526 ProtocolIE-ID ::= 527 ProtocolIE-ID ::= 528 ProtocolIE-ID ::= 529 ProtocolIE-ID ::= 530 ProtocolIE-ID ::= 533 ProtocolIE-ID ::= 534

id-RTLoadValue id-NRTLoadInformationValue id-PrimaryCCPCH-RSCP-Delta

END

ProtocolIE-ID ::= 535 ProtocolIE-ID ::= 536 ProtocolIE-ID ::= 539

CHANGE REQUEST											
¥		25.423	CR <mark>1069</mark>	ж	rev	1	ж	Current ver	sion:	6.5.0	ж
For <u>HELP</u> o	n us	sing this for	m, see bottom	of this pa	age or	look	at the	e pop-up tex	t over	[·] the	nbols.
Proposed chang	ge a	affects: l	JICC appsℋ	I	ME	Rac	dio Ad	ccess Netwo	ırk X	Core Ne	etwork
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Reason for change: ೫	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.		
Summary of change: ೫	 R1: Choice in TFCS is renamed as well as choice tags. Changes related to the inclusion of the <i>TFCI Signalling Mode</i> IE in the RADIO LINK RECONFIGURATION messages are removed. DSCH is removed from the specifications for the FDD mode. 		
Consequences if % not approved:	The obsolete DSCH feature will remain in the specifications.		

Clauses affected:	<mark>፝</mark> ቘ
	YN
Other specs	X Other core specifications X 25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435
affected:	XTest specifications34.108, 34.123XO&M Specifications
Other comments:	¥

How to create CRs using this form:

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

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

5.1 RNSAP Procedure Modules

The Iur interface RNSAP procedures are divided into four modules as follows:

- 1. RNSAP Basic Mobility Procedures;
- 2. RNSAP Dedicated Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures;
- 5. RNSAP MBMS Procedures.

The Basic Mobility Procedures module contains procedures used to handle the mobility within UTRAN, within GERAN and between UTRAN and GERAN.

The Dedicated Procedures module contains procedures that are used to handle DCHs, [FDD – F-DPCH,] [TDD – DSCHs, and-USCHs] and HS-DSCH between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of DCH, [FDD – F-DPCH,] [TDD – DSCH, and-USCH] and HS-DSCH traffic between corresponding RNSs is not possible.

The Common Transport Channel Procedures module contains procedures that are used to control common transport channel data streams (excluding the DSCH, <u>HS-DSCH</u> and USCH) over Iur interface.

The Global Procedures module contains procedures that are not related to a specific UE. The procedures in this module are in contrast to the above modules involving two peer CRNCs/CBSSs.

The MBMS Procedures module contains procedures that are specific to MBMS and used for cases that cannot be handled by other modules.

7 Functions of RNSAP

The RNSAP protocol provides the following functions:

- Radio Link Management. This function allows the SRNC to manage radio links using dedicated resources in a DRNS;
- Physical Channel Reconfiguration. This function allows the DRNC to reallocate the physical channel resources for a Radio Link;
- Radio Link Supervision. This function allows the DRNC to report failures and restorations of a Radio Link;
- Compressed Mode Control [FDD]. This function allows the SRNC to control the usage of compressed mode within a DRNS;
- Measurements on Dedicated Resources. This function allows the SRNC to initiate measurements on dedicated resources in the DRNS. The function also allows the DRNC to report the result of the measurements;
- DL Power Drifting Correction [FDD]. This function allows the SRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links;
- DCH Rate Control. This function allows the DRNC to limit the rate of each DCH configured for the Radio Link(s) of a UE in order to avoid congestion situations in a cell;
- CCCH Signalling Transfer. This function allows the SRNC and DRNC to pass information between the UE and the SRNC on a CCCH controlled by the DRNS;
- GERAN Signalling Transfer. This function allows the SBSS and DBSS, the SRNC and DBSS or the SBSS and DRNC to pass information between the UE/MS and the SRNC/SBSS on an SRB2/CCCH controlled by the DBSS/DRNC;
- Paging. This function allows the SRNC/SBSS to page a UE in a URA/GRA or a cell in the DRNS;
- Common Transport Channel Resources Management. This function allows the SRNC to utilise Common Transport Channel Resources within the DRNS (excluding DSCH resources for FDD);
- Relocation Execution. This function allows the SRNC/SBSS to finalise a Relocation previously prepared via other interfaces;
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- DL Power Timeslot Correction [TDD]. This function enables the DRNS to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.
- Measurements on Common Resources. This function allows an RNC/BSS to request from another RNC/BSS to initiate measurements on Common Resources. The function also allows the requested RNC/BSS to report the result of the measurements.
- Information Exchange. This function allows an RNC to request from another RNC the transfer of information. The function also allows the requested RNC to report the requested information.
- Resetting the Iur. This function is used to completely or partly reset the Iur interface.
- UE Measurement Forwarding[TDD]. This function allows the DRNC to request and receive UE measurements from the SRNC.
- Tracing. This function allows the SRNC to activate or deactivate trace in a DRNC.
- MBMS UE Linking/De-linking. This function allows the SRNC to provide/update/remove the UE Link to/in/from the DRNC.
- MBMS URA Linking/De-linking. This function allows the SRNC to provide/update/remove the URA Link to/in/from the DRNC.

- MBMS Channel Type Indication. This function allows the DRNC to indicate to the SRNC the selected channel type for an MBMS bearer service within a certain cell.

The mapping between the above functions and RNSAP elementary procedures is shown in the Table 1.

Function	Elementary Procedure(s)
Radio Link Management	a) Radio Link Setup
Radio Enk Management	b) Radio Link Addition
	c) Radio Link Deletion
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration
	Preparation
	f) Synchronised Radio Link Reconfiguration
	Commit
	g) Synchronised Radio Link Reconfiguration
	Cancellation
	h) Radio Link Pre-emptioni) Radio Link Activation
	j) Radio Link Parameter Update
Physical Channel Reconfiguration	Physical Channel Reconfiguration
Radio Link Supervision	a) Radio Link Failure
	b) Radio Link Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup
	b) Radio Link Addition
	c) Compressed Mode Command
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration Preparation
	f) Synchronised Radio Link Reconfiguration
	Commit
	g) Synchronised Radio Link Reconfiguration
	Cancellation
Measurements on Dedicated Resources	a) Dedicated Measurement Initiation
	b) Dedicated Measurement Reporting
	c) Dedicated Measurement Termination
DL Bower Drifting Correction [EDD]	d) Dedicated Measurement Failure
DL Power Drifting Correction [FDD] DCH Rate Control	Downlink Power Control a) Radio Link Setup
	b) Radio Link Addition
	c) Unsynchronised Radio Link Reconfiguration
	d) Synchronised Radio Link Reconfiguration
	Preparation
	e) Radio Link Congestion
CCCH Signalling Transfer	a) Uplink Signalling Transfer
CEDAN Signalling Transfer	b) Downlink Signalling Transfer a) GERAN Uplink Signalling Transfer
GERAN Signalling Transfer	b) Downlink Signalling Transfer
Paging	Paging
Common Transport Channel Resources	a) Common Transport Channel Resources
Management	Initiation
	b) Common Transport Channel Resources
	Release
Relocation Execution	Relocation Commit
Reporting of General Error Situations Measurements on Common Resources	Error Indication a) Common Measurement Initiation
	b) Common Measurement Initiation
	c) Common Measurement Termination
	d) Common Measurement Failure
Information Exchange	a) Information Exchange Initiation
	b) Information Reporting
	c) Information Exchange Termination
	d) Information Exchange Failure
DL Power Timeslot Correction [TDD]	Downlink Power Timeslot Control
Reset UE Measurement Forwarding[TDD]	Reset a) UE Measurement Initiation
	b) UE Measurement Reporting
	c) UE Measurement Termination
	d) UE Measurement Failure
Trace	a) lur Invoke Trace
	b) Iur Deactivate Trace

Table 1: Mapping between functions and RNSAP elementary procedures

Function	Elementary Procedure(s)
MBMS UE Linking/De-linking	a) Common Transport Channel Resources
	Initiation
	b) Radio Link Setup
	c) Downlink Signalling Transfer
	d) MBMS Attach
	e) MBMS Detach
MBMS Channel Type Indication	a) MBMS Channel Type Reconfiguration
	b) Uplink Signalling Transfer
	c) Radio Link Setup
	d) Radio Link Addition
	e) Common Transport Channel Resources
	Initiation
MBMS URA Linking/De-linking	a) Downlink Signalling Transfer
	b) MBMS Attach
	c) MBMS Detach

8.2.2 Downlink Signalling Transfer

8.2.2.1 General

The procedure is used by the SRNC to request to the DRNC the transfer of a Uu message on the CCCH in a cell. When used, the procedure is in response to a received Uplink Signalling Transfer procedure.

This procedure shall use the connectionless mode of the signalling bearer.

8.2.2.1.1 Downlink Signalling Transfer for lur-g

The procedure is used by the SRNC/SBSS to request to the DBSS the transfer of an Um message on the SRB2 in a cell.

The procedure is used by the SBSS to request to the DRNC the transfer of a Uu message on the CCCH in a cell.

8.2.2.2 Successful Operation

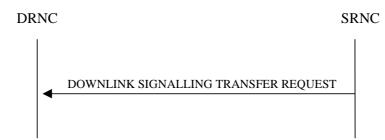


Figure 2: Downlink Signalling Transfer procedure, Successful Operation

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC to the DRNC.

The message contains the Cell Identifier (C-ID) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has no dedicated resources (DCH, [TDD - USCH,] and/or DSCH]) allocated for the UE, the DRNS shall release the D-RNTI, the UE Context and any RACH, [FDD - CPCH,] and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message. If a UE Link is currently stored in the UE Context, the DRNC shall perform UE De-linking as specified in [50], section 5.1.6.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH, [FDD - CPCH,] and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

If the *MBMS Bearer Service List* IE is included and *URA-ID* IE is not included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6.

If the *MBMS Bearer Service List* IE is included and the *URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the URA Linking as specified in [50], section 5.1.10.

If the *MBMS Bearer Service List* IE is included and the *Old URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform URA De-linking for the URA identified by the *Old URA-ID* IE as specified in [50], section 5.1.10.

8.3.1 Radio Link Setup

8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

8.3.1.2 Successful Operation

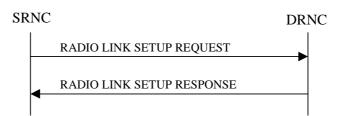


Figure 5: Radio Link Setup procedure: Successful Operation

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific UE-UTRAN connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request establishment of the radio link(s). The Radio Link Setup procedure is initiated with this RADIO LINK SETUP REQUEST message sent from the SRNC to the DRNC.

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

Transport Channels Handling:

DCH(s):

[TDD - If the *DCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DCHs according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

[TDD - If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

[FDD - For each DCH which do 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 *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].

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 shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs.

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.

If the *DCH Information* 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 Guaranteed Rate in the uplink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. 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 only 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 Guaranteed Rate in the downlink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. 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 only 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 downlink of the DCH.

[TDD – DSCH(s)]:

[TDD – If the DSCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall establish the requested DSCHs [FDD – on the RL indicated by the PDSCH RL ID IE]. If the Transport Layer Address IE and Binding ID IE are included in the DSCH Information IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DSCH. In addition, the DRNC shall send a valid set of DSCH Scheduling Priority IE and MAC-c/sh SDU Length IE parameters to the SRNC in the RADIO LINK SETUP RESPONSE message. If the PDSCH RL ID IE indicates a radio link in the DRNS, then the DRNC shall allocate a DSCH-RNTI to the UE Context and include the DSCH-RNTI IE in the RADIO LINK SETUP RESPONSE message.]

[TDD – If the DSCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[TDD – The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK SETUP RESPONSE message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in [32].]

[TDD - USCH(s)]:

[TDD - The DRNS shall use the list of RB Identities in the *RB Info* IE in the *USCH information* IE to map each *RB Identity* IE to the corresponding USCH. If the *Transport Layer Address* IE and *Binding ID* IE are included in the *USCH Information* IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the USCH.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message and contains the *TNL QoS* IE, and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall establish the requested USCHs, and the DRNC shall provide the [3.84 Mcps TDD - USCH Information Response IE] [1.28 Mcps TDD - USCH Information Response LCR IE] in the RADIO LINK SETUP RESPONSE message.]

[TDD - CCTrCH Handling]:

[TDD - If the *UL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL CCTrCH Information LCR* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall configure the uplink TPC step size according to the parameters given in the message.]

[TDD - If the *DL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD - If the *TPC CCTrCH List* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

HS-DSCH:

If the HS-DSCH Information IE is present in the RADIO LINK SETUP 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 SETUP 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 SETUP RESPONSE message.
- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- 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 SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the 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 SETUP 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 SETUP REQUEST 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 DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [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 SETUP 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD *HS-PDSCH Timeslot Specific Information* IE] [1.28 Mcps TDD - *HS-PDSCH Timeslot Specific Information LCR* IE] in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in [10].]

[FDD - E-DCH:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK SETUP REQUEST message and the *RL Information* IE contains the *RL specific E-DCH Information* IE for one Radio Link then:

- The DRNS shall setup the requested E-DCH resources on the Radio Link indicated by the *RL ID* IE in the *RL Information* IE.
- The RADIO LINK SETUP REQUEST message shall contain in the *RL Information* IE for every RL the *E-DCH RL Indication* IE indicates whether this RL has configured E-DCH resources.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH Information* IE for an E-DCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.
- The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE for a E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK SETUP REQUEST message includes the *Maximum Number of Retransmissions* for *E-DCH* IE for a E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has elapsed.
- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.

- The DRNC shall include the *E*-AGCH and *E*-RGCH and *E*-HICH FDD Scrambling Code IE and the *E*-RGCH and *E*-HICH Channelisation Code IE and the corresponding *E*-RGCH Signature Sequence IE and the *E*-HICH Signature Sequence IE in the *E*-DCH FDD DL Control Channel Information IE in the RADIO LINK SETUP RESPONSE message.
- If the RADIO LINK SETUP REQUEST message contains the Serving E-DCH RL IE then the DRNC shall allocate an E-RNTI and include this E-RNTI and the Channelisation Code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the RL Information IE for the indicated RL in the RADIO LINK SETUP RESPONSE message.]

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

[FDD - If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message and the UE Context is configured to use DPCH in the downlink, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the information provided by the *Downlink Compressed Mode Method* IE if included for the concerned Transmission Gap Pattern Sequence(s).]

[FDD - DL Code Information]:

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

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK SETUP 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 SETUP 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.]

[FDD – If Primary CPICH is not to be used as a Phase Reference for this Radio Link, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK SETUP RESPONSE message.]

[FDD – If Secondary CPICH may be used as a Phase Reference for this Radio Link, the DRNC shall include the *Secondary CPICH Information* IE in the RADIO LINK SETUP RESPONSE message.]

General:

[FDD - If the *Propagation Delay* IE is included, the DRNS may use this information to speed up the detection of UL synchronisation on the Uu interface.]

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

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length of TFCI2* IE and the *Split type* IE is present with the value "Hard", then the DRNS shall assume the length of the TFCI (field 2) is 5 bits.]

[FDD—If the RADIO LINK SETUP REQUEST message includes *Split Type* IE, then the DRNS shall apply this information to the new configuration of TFCI.]

[FDD—If the RADIO LINK SETUP REQUEST message includes the *Length of TFCI2* IE, the DRNS shall apply this information to the length of TFCI(field 2).]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Maximum Number of DL Physical Channels per Timeslot* IE the DRNC shall take this value into account when allocating physical resources, otherwise the DRNC can assume that this UE capability is consistent with the other signalled UE capabilities.]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *Support for 8PSK* IE within the *DL Physical Channel Information* IE *or UL Physical Channel Information* IE, the DRNC shall take this into account in the specified direction when allocating physical resources, otherwise the DRNC can assume that this UE does not support 8PSK resource allocation.]

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

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

[FDD - E-DPCH Handling:]

[FDD - If the UL DPDCH Indicator for E-DCH operation IE is included in the UL DPCH Information IE and set to "UL-DPDCH not present" the Min UL Channelisation Code Length IE, the Puncture Limit IE and the TFCS IE, within the UL DPCH Information IE shall be ignored.]

Radio Link Handling:

Diversity Combination Control:

[FDD - The *Diversity Control Field* IE indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not.

- If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL.

- If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

When an RL is to be combined, the DRNS shall choose which RL(s) to combine it with.]

[FDD - The *Diversity Control Field* IE is only applicable for DCHs, in case of E-DCH it shall always be assumed to be set to "May".]

[FDD - In the RADIO LINK SETUP RESPONSE message, the DRNC shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, the DRNC shall
 - in case of requested DCHs, include in the *DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.
 - in case of a requested E-DCH, include in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for the establishment of transport bearers for every E-DCH MAC-d flow being established.]
- [FDD Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined.]

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer the *Binding ID* IE and the *Transport Layer Address* IE shall be included in the RADIO LINK SETUP RESPONSE message for only one of the DCHs in the set of co-ordinated DCHs.

[FDD - Transmit Diversity]:

[FDD - If the cell in which the RL is being set up is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK SETUP RESPONSE message indicating the configured Closed loop timing adjustment mode of the cell.]

[FDD - When the *Diversity Mode* IE is set to "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the *Transmit Diversity Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value. If the value of the *Initial DL TX Power* IE is outside the configured DL TX power range, the DRNS shall apply these constraints when setting the initial DL TX power. The DRNS shall also include the configured DL TX power range defined by *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. The DRNS shall not transmit with a power higher than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL except, if the UE Context is configured to use DPCH in the downlink, 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.]

[FDD - If both the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not included in the RADIO LINK SETUP REQUEST message, then DRNC shall determine the initial Uplink SIR Target and include it in the *Uplink SIR Target* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall use the *Uplink SIR Target CCTrCH* IEs in the RADIO LINK SETUP RESPONSE message to indicate for any UL CCTrCH an Uplink SIR Target value in case this is deviating from the value included in the *Uplink SIR Target* IE specified for the Radio Link. If in any [3.84Mcps TDD - *UL CCTrCH Information* IE] [1.28Mcps TDD - *UL CCTrCH Information LCR* IE] the *Uplink SIR Target CCTrCH* IE is not included, the value of the *Uplink SIR Target* IE shall apply to the respective UL CCTrCH.]

[FDD - If the *Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL TX Power. If the *Enhanced Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL Tx Power.]

[TDD - If [3.84Mcps TDD - the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - the *DL Time Slot ISCP Info LCR* IE] is present, the DRNS should use the indicated value when deciding the Initial DL TX Power for the Radio Link. The DRNS shall use the indicated DL Timeslot ISCP when determining the initial DL power per timeslot as specified in [22], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS should assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS should assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS should use the indicated value when deciding the Initial DL TX Power for the Radio Link.]

[3.84 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power* IE. 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 - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP 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 value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE 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 *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

[1.28McpsTDD - If the *TSTD Support Indicator* IE is present, the DRNS shall apply this information when configuring the transmit diversity for the new radio link.]

[FDD - The DRNS shall start any DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code or on the F-DPCH of a RL until UL synchronisation is achieved on the Uu interface for the concerned RLS or Power Balancing is activated. No inner loop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) and the power control procedure (see 8.3.15).]

[TDD - The DRNS shall start any DL transmission using the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved on the Uu interface for the concerned RL. No inner loop power control shall be performed during this period. Then after UL synchronisation, the DL power shall vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).]

[FDD - If the received *Inner Loop DL PC Status* IE is set to "Active", the DRNS shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the DRNS shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.15, using the *DL Power Balancing Information* IE. If the DRNS starts the DL

transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing i.e. *P_{init}* shall be set to the power level indicated by the *Initial DL TX Power* IE (if received) or the decided DL TX power level on each DL channelisation code of a RL based on the *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE.]

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

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Closed Loop Mode2 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE, the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE for the set to "Case1", the DRNC shall include the *Time Slot For SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the CN PS Domain Identifier IE and/or CN CS Domain Identifier IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- If the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE and/or the *Cell Capability Container TDD LCR* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a and 9.2.3.1b.
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise the *Restriction Statelindicator* IE may be absent. The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Restriction Statelindicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring GSM Cell Information* IE for each of the GSM neighbouring cells. If available the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information* IE. If available the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK SETUP RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[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 SETUP RESPONSE message.]

MBMS Handling:

If the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6. If the UE Link is currently stored in the UE Context or the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message and if an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in some of the cells identified by the *C-ID* IEs in the RADIO LINK SETUP REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE in the concerned *RL Information Response* IEs in the RADIO LINK SETUP RESPONSE message.

General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE and the S-Field Length IE, the DRNS shall activate SSDT, if supported, using the SSDT Cell Identity IE, S-Field Length IE and SSDT Cell Identity Length IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

[FDD If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity for end SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE. If the enhanced DSCH power control is activated and the TFCI PC Support Indicator IE is set to "TFCI PC Mode 2 Supported", the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK SETUP REQUEST message for at least one DCH and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *D-RNTI* IE, the *CN PS Domain Identifier* IE and/or the *CN CS Domain Identifier* IE for the CN domains (using LAC and RAC of the current cell) to which the DRNC is connected.

[FDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Primary Scrambling Code* IE, the *UL UARFCN* IE and the *DL UARFCN* IE.]

[TDD - If the *D*-*RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE, the *Cell Parameter ID* IE and the *SCTD Indicator* IE.]

[3.84Mcps TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Sync Case* IE and if the *Sync Case* IE is set to "Case 2", the DRNC shall also include the *SCH Time Slot* IE in the RADIO LINK SETUP RESPONSE message. If the included *Sync Case* IE is set to "Case1", the DRNC shall also include the *Time Slot For SCH* IE.]

[3.84Mcps TDD - The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the Secondary CCPCH Info TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the *URA Information* IE within the RADIO LINK SETUP RESPONSE message URA Innformation for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEsof all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK SETUP RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK SETUP RESPONSE message, it shall also include the *Cell GAI* IE.

If the DRNS need 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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS need 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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNS shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

[FDD—If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK SETUP RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Cell Portion ID* IE, the DRNS shall use this information when it decides to use beamforming for the new RL.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the DRNS shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The DRNS shall use the *First RLS Indicator* IE to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context.]

[FDD -The UL oout-of-sync algorithm defined in ref. [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For all RLs having a common generation of E-RGCH and E-HICH related information with another RL, the DRNS shall assign to each RL the same value for the *E-DCH RL Set ID* IE which uniquely identifies these RLs as members of the same E-DCH RL Set within the UE Context.]

Response Message:

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS allocates the requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH, for each set of co-ordinated DCHs <u>TDD</u> and for each DSCH <u>TDD</u> and USCH]. This information shall be sent to the SRNC in the RADIO LINK SETUP RESPONSE message when all the RLs have been successfully established.

After sending the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message the DRNS shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4].]
- [TDD start transmission on the new RL immediately as specified in ref. [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall:

- if the Delayed Activation IE indicates "Separate Indication":
 - not start any DL transmission for the concerned RL on the Uu interface;

- if the Delayed Activation IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4], however never before the CFN indicated in the *Activation CFN* IE.]
 - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in ref. [4].]

8.3.1.3 Unsuccessful Operation

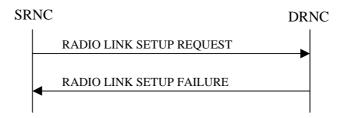


Figure 6: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the DRNC shall respond with a RADIO LINK SETUP FAILURE message. The DRNC shall include in the RADIO LINK SETUP FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD - If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.]

[FDD—If the RL identified by the *PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a DSCH RNTI to the UE Context and include the *DSCH RNTI* IE in the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the *Permanent NAS UE Identity* IE is not present, the DRNC shall reject the procedure and send the RADIO LINK SETUP FAILURE message.

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE and the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP FAILURE message.]

Typical cause values are:

Radio Network Layer Causes:

- [FDD UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- [FDD Combining Resources not available];
- Combining not Supported
- Requested Configuration not Supported;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Number of DL codes not supported;

- Number of UL codes not supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use;
- Delayed Activation not supported;
- [FDD HARQ Preamble Mode not supported];
- [FDD E-DCH not supported].
- F-DPCH not supported.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

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

8.3.1.4 Abnormal Conditions

If the DRNC receives either an S-RNTI or a D-RNTI which already has RL(s) established the DRNC shall send the RADIO LINK SETUP FAILURE message to the SRNC, indicating the reason for failure.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes both the *Initial DL TX Power* IE and the *Primary CPICH Ec/No* IE or does not include either of these IEs, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"] the DRNS shall reject the Radio Link Setup procedure and shall respond with a RADIO LINK SETUP FAILURE message.

[FDD - If only the *Initial DL TX Power* IE or the *Uplink SIR Target* IE is included in the RADIO LINK SETUP REQUEST message, then DRNC shall reject the Radio Link Setup procedure and shall respond with the RADIO LINK SETUP FAILURE message.]

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD—If the RADIO LINK SETUP REQUEST message does not include the *Split Type* IE but includes *TFCI* Signalling Mode IE set to "Split", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length of TFCI2* IE but the *Split type* IE is set to "Logical", then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD If the RADIO LINK SETUP 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 DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message does not include the *Split Type* IE but includes the *Length of TFCI2* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must", the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE not referring to one of the radio links to be established, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

8.3.2 Radio Link Addition

8.3.2.1 General

This procedure is used for establishing the necessary resources in the DRNS for one [FDD – or more] additional RLs towards a UE when there is already at least one RL established to the concerned UE via this DRNS.

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

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

[FDD The Radio Link Addition procedure serves to establish one or more new Radio Links which do not contain the DSCH. If the DSCH shall be moved into a new Radio Link, the Radio Link reconfiguration procedure shall be applied.]

[TDD - The Radio Link Addition procedure serves to establish a new Radio Link with the DSCH and USCH included, if they existed before.]

8.3.2.2 Successful Operation

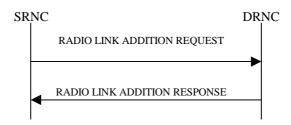


Figure 7: Radio Link Addition procedure: Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

Transport Channel Handling:

[3.84 Mcps TDD - The DRNC shall include the *UL/DL DPCH Information* IE within the *UL/DL CCTrCH Information* IE for each CCTrCH that requires DPCHs.]

[1.28 Mcps TDD - The DRNC shall include the UL/DL DPCH Information LCR IE within the UL/DL CCTrCH Information LCR IE for each CCTrCH that requires DPCHs.]

[TDD - DSCH:]

[3.84 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response* IE for each DSCH.]

[1.28 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a DSCH Information Response LCR DSCH Information Response LCR IE for each DSCH.]

[TDD - USCH:]

[3.84 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response* IE for each USCH.]

[1.28 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a USCH Information Response LCR IE for each USCH.]

Physical Channels Handling:

[FDD -Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.]

[FDD - If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

[FDD - If some Transmission Gap Pattern sequences using SF/2 method are initialised in the DRNS and the UE Context is configured to use DPCH in the downlink, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code.]

[FDD - DL Code Information]:

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

[TDD - CCTrCH Handling]:

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

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall configure the uplink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

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

[TDD - If the *DL CCTrCH Information* IE includes the *TDD TPC Downlink Step Size* IE, the DRNS shall configure the downlink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[FDD – Phase Reference Handling]:

[FDD – If Primary CPICH is not to be used as a Phase Reference for this Radio Link, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK ADDITION RESPONSE message.]

General:

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

Radio Link Handling:

Diversity Combination Control:

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur.

- If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.
- If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

[FDD - The *Diversity Control Field* IE is only applicable for DCHs, in case of E-DCH it shall always be assumed to be set to "May".]

In the case of not combining a RL with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or a RL previously listed in the RADIO LINK ADDITION RESPONSE message, the DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that no combining is done. In this case the DRNC shall include in the *DCH Information Response* IE both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

[FDD - In case of combining E-DCH, the *E-DCH FDD Information Response* IE shall be included in the RADIO LINK ADDITION RESPONSE message containing the *Binding ID* IE and the *Transport Layer Address* IE for the establishment of transport bearers for every E-DCH MAC-d flow being established.]

In the case of combining with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, the DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that the RL is combined. In this case, the *RL ID* IE indicates (one of) the previously established RL(s) or a RL previously listed in this RADIO LINK ADDITION RESPONSE message with which the new RL is combined.

[TDD - The DRNC shall always include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for only one of the DCHs in the set of co-ordinated DCHs.

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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

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) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

[FDD - Transmit Diversity]:

[FDD - The DRNS shall activate any feedback mode diversity according to the received settings.]

[FDD - If the cell in which the RL is being added is capable to provide Close loop Tx diversity, the DRNC shall indicate the Closed loop timing adjustment mode of the cell by including the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - When the *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity for each new Radio Link in accordance with the *Transmit Diversity Indicator* IE using the diversity mode of the existing Radio Link(s).]

DL Power Control:

[FDD - If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH Ec/No* IE measured by the UE are included for an RL in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this RL. If the *Primary CPICH Ec/No* IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

[TDD - If [3.84Mcps TDD - the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - the *DL Time Slot ISCP Info LCR* IE] is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP* IE, *Primary CCPCH RSCP Delta* IE, [3.84Mcps TDD - and the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - and the *DL Time Slot ISCP Info LCR* IE] are not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CCPCH power used by the existing RL.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or Power Balancing is activated. No inner loop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [10] subclause 5.2.1.2) and the power control procedure (see 8.3.7).]

[TDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).]

[3.84 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the 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 - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION 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 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 or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum ML TX Power* IE or lower than indicated by the appropriate *Mining Power* IE or lower than indicated by the appropri

[FDD - If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

The DRNC shall provide the configured *Maximum DL TX Power* IE and *Minimum DL TX Power* IE for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. The DRNS shall not transmit with a power higher than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH [FDD - or on the F-DPCH] of the RL [FDD - except, if the UE Context is configured to use DPCH in the downlink, 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.]

[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) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported by the DRNS, according to subclause 8.3.15. In this case, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. P_{init} shall be set to the power level which is calculated based on the *Primary CPICH Ec/No* IE (if received), or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing RLs.]

UL Power Control:

The DRNC shall also provide the configured UL Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Closed Loop Mode2 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the Sync Case II set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK ADDITION RESPONSE message the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE if this information is available.]
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE and/or the *Cell Capability Container TDD LCR* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a and 9.2.3.1b.
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction State Indicator* IE may be absent. The DRNC shall include the *Restriction State Indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

If there are GSM neighbouring cells to the cell(s) in which a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information IE*. If available the DRNC shall also include the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK ADDITION RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

[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 ADDITION RESPONSE message.]

MBMS Handling:

If the UE Link is currently stored in the UE Context and an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in some of the cells identified by the *C-ID* IEs in the RADIO LINK ADDITION REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE in the concerned *RL Information Response* IEs in the RADIO LINK ADDITION RESPONSE message.

General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, the DRNS shall, if supported, activate SSDT for the concerned new RL using the indicated SSDT Cell Identity.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK ADDITION RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK ADDITION RESPONSE message, it shall also include the *Cell GAI* IE.

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a URA Information for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEs of all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

[FDD - If the UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link established in 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 ADDITION RESPONSE message.]

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the secondary CCPCH Info TDD IE or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK ADDITION RESPONSE message.

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the DRNS shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - Radio Link Set Handling]:

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context.]

[FDD - After addition of the new RL(s), the UL out-of-sync algorithm defined in ref. [10] shall, for each of the previously existing and newly established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum

value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For all RLs having a common generation of E-RGCH and E-HICH related information with another RL, the DRNS shall assign to each RL the same value for the *E-DCH RL Set ID* IE which uniquely identifies these RLs as members of the same E-DCH RL Set within the UE Context.]

[FDD - E-DCH:]

[FDD - If the *RL Information* IE in the RADIO LINK ADDITION REQUEST message contains the *RL specific E-DCH Information* IE for one Radio Link then:

- The DRNS shall setup the requested E-DCH resources on the Radio Link indicated by the *RL ID* IE in the *RL Information* IE.
- If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH Information* IE for an E-DCH MAC-d flow, then the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.
- The DRNC shall include the *E-AGCH and E-RGCH and E-HICH FDD Scrambling Code* IE and the *E-RGCH and E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* IE and the *E-HICH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK ADDITION RESPONSE message.

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Serving E-DCH RL* IE, indicating that the Serving E-DCH RL is in this DRNS, then the DRNC shall allocate an E-RNTI and include this E-RNTI and the Channelisation Code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *RL Information* IE for the indicated RL in the RADIO LINK ADDITION RESPONSE message.]

Response message:

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

After sending the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK ADDITION REQUEST message the DRNS shall:

- [FDD -start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4].]
- [TDD start transmission on the new RL immediately as specified in ref. [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall:

- if the Delayed Activation IE indicates "Separate Indication":
 - not start any DL transmission for the concerning RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4], however never before the CFN indicated in the *Activation CFN* IE.]
- [TDD start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in ref. [4].]

8.3.2.3 Unsuccessful Operation

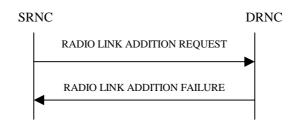


Figure 8: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall respond with a RADIO LINK ADDITION FAILURE message. DRNC shall include in the RADIO LINK ADDITION FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD - If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.]

[FDD If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Combining Resources not Available;
- Combining not Supported
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- CM not Supported;
- Reconfiguration CFN not Elapsed;
- Number of DL Codes not Supported;
- Number of UL codes not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use;
- Delayed Activation not supported.
- F-DPCH not supported.

Transport Layer Causes:

- Transport Resource Unavailable.
- [FDD E-DCH not supported].

Miscellaneous Causes:

- Control Processing Overload;

- HW Failure;
- Not enough User Plane Processing Resources.

8.3.2.4 Abnormal Conditions

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available in the DRNC for the considered UE Context, the DRNC shall reject the procedure for this particular Radio Link and send the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transmission Gap Pattern Sequence Status* IEs in the *Active Pattern Sequence Information* IE and it does not address exactly all ongoing compressed mode patterns the DRNS shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the *Cause* IE value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST message is used to establish a new RL without compressed mode when compressed mode is active for the existing RL(s) (as specified in subclause 8.3.2.2), and if at least one of the new RLs is to be established in a cell that has the same UARFCN (both UL and DL) as at least one cell with an already existing RL, the DRNS shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) and if the *DL Reference Power* IEs are included in the *RL Information* IE but the *DL Reference Power* IE is not present for each RL in the *RL Information* IE, the DRNC shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IEs in the *RL Information* IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s), the DRNC shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must", the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

8.3.4 Synchronised Radio Link Reconfiguration Preparation

8.3.4.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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

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

8.3.4.2 Successful Operation



Figure 10: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

Upon receipt, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION PREPARE 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(s) to be modified according to Annex A.

DCH Modification:

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

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs To Modify* IE 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 the *Frame Handling Priority* IE for a DCH to be modified, 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Traffic Class* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The *Traffic Class* IE

may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *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 includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the DRNS may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *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 *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 *DCHs To Modify* IE contains a *DRAC Control* IE set to "requested" and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE for the FACH in which the DRAC information is sent, for each Radio Link established in a cell in which DRAC is active. If the DRNS does not support DRAC, DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *DCHs To Modify* IE 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 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 rate 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 PREPARE message includes any *DCHs To Add* IEs, 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 *DCH Information* IE includes a *DCHs To Add* IE with multiple *DCH Specific Info* IEs, 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 it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For each DCH which do 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 the Physical channel BER 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.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- 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 Startpoint 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 Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [FDD If the *DRAC Control* IE is set to "requested" in the *DCH Specific Info* IE for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY 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 READY message.]
- If the *DCHs To Add* 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 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 *DCHs To Add* 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 *DCHs To Add* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCH To Delete*, 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.

Physical Channel Modification:

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

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

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL DPCH Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink in the old configuration, the DRNS shall configure the concerned UE Context to use DPCH in the downlink in the new configuration. In this case, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the new configuration, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, the DRNS shall use the information contained in it for the power settings of the DL DPCH. In particular, if the received *Inner Loop DL PC Status* IE is set to "Active", the DRNS shall activate the inner loop DL power control for all

RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. [10]. Furthermore, the DRNC shall include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION READY.]

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

- [FDD If the *DL DPCH Information* IE includes the *Number of DL Channelisation Codes* IE, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included in the RADIO LINK RECONFIGURATION READY message within the *DL Code Information* IE as a *FDD DL Channelisation Code Number* IE when sent to the SRNC. If some Transmission Gap Pattern sequences using "SF/2" method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Code.]
- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE 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 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 PREPARE message does not include the Length of TFCI2 IE and the Split type IE is present with the value "Hard", then the DRNS shall assume the length of the TFCI (field 2) is 5 bits.]
 - [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Split Type IE*, then the DRNS shall apply this information to the new configuration of TFCI.]
- [FDD If the DL DPCH Information IE includes the Length of TFCI2 IE, the DRNS shall apply this information to the length of TFCI(field 2) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE, the DRNS shall configure the concerned UE Context to use F-DPCH in the downlink in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or until the last Radio Link is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern* Sequence Information IE and the Downlink Compressed Mode Method IE in one or more Transmission Gap Pattern

Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to "SF/2" and the UE Context is configured to use DPCH in the downlink in the new configuration, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

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

- [FDD If the *E-DPCH Information* IE includes the *Min UL Channelisation Code Length for EDCH FDD* IE, the DRNS shall apply the new Min UL Channelisation Code Length in the new configuration. The DRNS shall apply the contents of the *Max Number of E-DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *Puncture Limit* IE, the DRNS shall apply the value in the uplink of the new configuration]
- [FDD If the *E-DPCH Information* IE includes the *E-TFCS* IE, the DRNS shall use the *E-TFCS* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the uplink of the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *E-TTI* IE, the DRNS shall use the value when the new configuration is being used.]

[TDD - UL/DL CCTrCH Modification]

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

- [TDD If any of the *UL CCTrCH To Modify* IEs or *DL CCTrCH To Modify* IEs includes any of the *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [TDD If any of the following listed DPCH information IEs are modified in the new prepared configuration, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the IEs indicating the new values: *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE, [3.84Mcps TDD *UL Timeslot Information* IE,] [1.28Mcps TDD *UL Timeslot Information LCR* IE,] [3.84Mcps TDD *DL Timeslot Information* IE,] [1.28Mcps TDD *DL Timeslot Information LCR* IE,] [3.84Mcps TDD *Midamble Shift And Burst Type* IE,] [1.28Mcps TDD *Midamble Shift LCR* IE,] *TFCI Presence* IE, [3.84Mcps TDD *TDD Channelisation Code* IE,] [1.28Mcps TDD and/or *TDD Channelisation Code* IE,] [1.28Mcps TDD *TDD Channelisation Code* IC, IE,] [1.28Mcps TDD *TDD Channelisation Code* IC, IE,] [1.28Mcps TDD *TDD Channelisation Code* IC, IE,] [1.28Mcps TDD *TDD Channelisation Code* IE,] [1.28Mcps TDD *TDD Channelisation Code* IC, IE,] [1.28Mcps TDD *TDD Chan*
- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control according [12] and [22] in the new configuration.]
- [TDD If any of the *DL CCTrCH To Modify* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC Downlink Step Size* IE, the DRNS shall apply this value to the downlink TPC step size in the new configuration.]

[TDD - UL/DL CCTrCH Addition]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Add* IEs or *DL CCTrCH To Add* IEs, the DRNS shall include this CCTrCH in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the DPCH information in [3.84Mcps TDD - *UL DPCH to be Added IE/DL DPCH to be Added* IEs] [1.28Mcps TDD - *UL DPCH to be Added LCR* IE/*DL DPCH to be Added IEs*] [1.28Mcps TDD - *UL DPCH to be Added LCR* IE/*DL DPCH to be Added LCR* IEs] [3.84Mcps TDD - If no UL DPCH is active before a reconfiguration which adds an UL DPCH, and if a valid Rx Timing Deviation measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation* IE in the RADIO LINK RECONFIGURATION READY message].]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD TPC Downlink Step Size* IE within a *DL CCTrCH To Add* IE, the DRNS shall set the TPC step size of that CCTrCH to that value, otherwise the DRNS shall use the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - The DRNS shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [12] and [22] in the new configuration.]

[TDD - If any of the *DL CCTrCH To Add* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL CCTrCH To Add* IE includes *TDD TPC Uplink Step Size* IE, the DRNS shall apply the uplink TPC step size in the new configuration.]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Delete* IEs or *DL CCTrCH To Delete* IEs, the DRNS shall remove this CCTrCH in the new configuration, and the DRNC shall include in the RADIO LINK RECONFIGURATION READY message corresponding *UL DPCH to be Deleted* IEs and *DL DPCH to be Deleted* IEs.]

SSDT Activation/Deactivation:

- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", then in the new configuration the DRNS shall activate SSDT, if supported, using the *SSDT Cell Identity* IE in *RL Information* IE, and the *SSDT Cell Identity Length* IE in *UL DPCH Information* IE.]
- [FDD If the *RL Information* IE includes the *Qth Parameter* IE and the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

DL Power Control:

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and power balancing is active, 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 PREPARE message is supported, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, according to subclause 8.3.15, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the 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 READY message.]

[TDD – DSCH Addition/Modification/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IEs, then the DRNS shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any DSCH To Add IE, then the DRNS shall use the Allocation/Retention Priority IE, Scheduling Priority Indicator IE and TrCH Source Statistics Descriptor IE to define a set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD - The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each added DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

- [FDD If the *DSCHs To Add* IE includes the *Enhanced DSCH PC* IE, the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD the SSDT Cell Identity IE in the *RL Information* IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the *RL Information* IE.]

[FDD together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

[FDD - If the enhanced DSCH power control is activated and the TFCI PC Mode 2 is supported, the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any DSCH To Modify IE, then the DRNS shall treat them each as follows:]

- <u>TDD -</u> The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified DSCH.]
- [FDD If the DSCH To Modify IE includes any DSCH Info IEs, then the DRNS shall treat them each as follows:]
 - [FDD If the DSCH Info IE includes any of the Allocation/Retention Priority IE, Scheduling Priority
 Indicator IE or TrCH Source Statistics Descriptor IE, the DRNS shall use them to update the set of DSCH
 Priority classes each of which is associated with a set of supported MAC c/sh SDU lengths.]
 - [FDD—If the DSCH Info IE includes any of the Transport Format Set IE or BLER IE, the DRNS shall apply the parameters to the new configuration.]
 - [FDD—If the DSCH Info IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]
- [FDD If the DSCH To Modify IE includes the PDSCH RL ID IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [FDD If the indicated PDSCH RL ID is in the DRNS and there was no DSCH RNTI allocated to the UE Context, the DRNC shall allocate a DSCH RNTI to the UE Context and include the DSCH RNTI IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the indicated PDSCH RL ID is in the DRNS and there was a DSCH RNTI allocated to the UE Context, the DRNC shall allocate a new DSCH RNTI to the UE Context, release the old DSCH RNTI and include the DSCH RNTI IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the indicated PDSCH RL ID is not in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall release this DSCH RNTI.]
- [FDD—If the DSCH To Modify IE includes the Transport Format Combination Set IE, then the DRNS shall use it as the new Transport Format Combination Set associated with the DSCH.]
- [TDD If the *DSCHs To Modify* IE includes the *CCTrCH ID* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the *DSCHs To Modify* IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

- [FDD If the DSCHs To Modify IE includes the Enhanced DSCH PC Indicator IE set to "Enhanced DSCH PC Active in the UE ", the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]
 - [FDD together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]
- [FDD If the *DSCHs To Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control in the new configuration.]
 - [FDD—If the enhanced DSCH power control is activated and the TFCI PC Mode 2 is supported, the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a *DSCHs To Delete* IE requesting the deletion of all DSCH resources for the UE Context, then the DRNC shall release the DSCH RNTI allocated to the UE Context, if there was one.]

[3.84 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control in the new configuration.]

If the requested modifications are allowed by the DRNS and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

[TDD - The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK RECONFIGURATION READY message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in [32].]

[TDD USCH Addition/Modification/Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify, USCH To Add or USCH To Delete IEs, then the DRNS shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, then, the DRNS shall use the Allocation/Retention Priority IE, Scheduling Priority Indicator IE and TrCH Source Statistics Descriptor IE to define a set of USCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, if the TNL QoS IE is included and if ALCAP is not used, the DRNS may use the TNL QoS IE to determine the transport bearer characteristics to apply for the related USCHs.]

[TDD - The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport* Layer Address IE and the *Binding ID* IE for the transport bearer to be established for each added USCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify IE, then the DRNS shall treat them each as follows:]

- [TDD If the USCH To Modify IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DNRS shall use them to update the set of USCH Priority classes.]
- [TDD If the USCH To Modify IE includes any of the CCTrCH ID IE, Transport Format Set IE, BLER IE or RB Info IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the USCHs To Modify IE includes the Traffic Class IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [TDD if the *TNL QoS* IE is included and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply for the related USCHs.]
- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified USCH.]

RL Information:

[FDD - If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the DRNS shall adjust the timing of the radio link accordingly in the new configuration. If the UE Context is configured to use F-DPCH in the downlink in the new configuration, the DRNC may include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Setup:

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

- The 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 READY 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 READY 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 PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the 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 READY 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 DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [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 READY 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in [10].]

Intra-DRNS Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The DRNS shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The DRNC may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message.
- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.
- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION READY message.
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [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 READY 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD *HS-PDSCH Timeslot Specific Information* IE] [1.28 Mcps TDD *HS-PDSCH Timeslot Specific Information LCR* IE] in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The 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 PREPARE message includes the *Traffic Class* IE in the *HS-DSCH Information To Modify* 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 PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-d PDU Size Index* IE in the *Modify Priority Queue* choice, the DRNS shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the *MAC-d PDU Size Index* IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the DRNS shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the 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 PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use the indicated power offset in the new configuration.]
- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the DRNS may modify the HS-SCCH codes corresponding to the HS-DSCH. The DRNC shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the
 DRNS may modify the HS-SCCH parameters corresponding to the HS-DSCH. The DRNC shall then report the
 values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD HS-SCCH
 Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] in the
 RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10].]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the 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 PREPARE 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.
- The DRNC shall include the HS-DSH Initial Capacity Allocation IE in the RADIO LINK RECONFIGURATION READY 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 PREPARE 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 PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The DRNC may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message.

[FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the *RL Information* IE contains the *RL specific E-DCH Information* IE for one Radio Link then:

- The DRNS shall setup the requested E-DCH resources on the Radio Link indicated by the *RL ID* IE in the *RL Information* IE.
- The RADIO LINK RECONFIGURATION PREPARE message shall contain in the *RL Information* IE for every RL the *E-DCH RL Indication* IE indicates whether this RL has configured E-DCH resources.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE for an E-DCH MAC-d flow in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number of Retransmissions for E-DCH* IE for a E-DCH MAC-d flow in the *E-DCH FDD Information* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.
- The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.
- The DRNC shall include the *E-AGCH and E-RGCH and E-HICH FDD Scrambling Code* IE and the *E-RGCH and E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* IE and the *E-HICH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL ID* IE, this indicates the new Serving E-DCH Radio Link:

- If the old Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.
- If the new Serving E-DCH RL is within this DRNS, the DRNS shall allocate an E-RNTI identifier for the new Serving E-DCH Radio Link and include this identifier along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *RL Information Response* IE for the indicated RL in the RADIO LINK RECONFIGURATION READY message.]

[FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE, then:

- If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Information* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.
- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Data Description Indicator* IE, the DRNC shall use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number of Retransmissions for E-DCH* IE for a E-DCH MAC-d flow in the *E-DCH FDD Information To Modify* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.
- The DRNC shall include the *E-AGCH and E-RGCH and E-HICH FDD Scrambling Code* IE and the *E-RGCH and E-HICH Channelisation Code* IE and the corresponding E-RGCH Signature Sequence IE and *E-HICH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - E-DCH MAC-d Flow Addition:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Add* IE in the *RL Information* IE, then the DRNS shall use this information to add the indicated E-DCH MAC-d flows.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:

- The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]

[FDD - E-DCH MAC-d Flow Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DCH *MAC-d Flows To Delete* IEs, then the DRNS shall use this information to delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the UE Context, then the DRNC shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

[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 READY message, if the Uplink Timing Advance Control parameters have been changed.]

[TDD_] DSCH_-RNTI Addition/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the <u>PDSCH RL ID</u> <u>PDSCH RL</u> <u>ID</u> [E, then the DRNS shall use it as the new RL identifier for PDSCH and PUSCH.]

- [TDD If the indicated PDSCH RL ID is in the DRNS and there was no DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a DSCH-RNTI to the UE Context and include the <u>DSCH-RNTI-DSCH-RNTI</u> IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a new DSCH-RNTI to the UE Context, release the old DSCH-RNTI and include the <u>DSCH-RNTI-DSCH-RNTI</u> IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is not in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall release this DSCH-RNTI.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a <u>DSCHs to Delete-DSCHs To</u> <u>Delete</u> IE and/or a <u>USCHs to Delete-USCHs To Delete</u> IE which results in the deletion of all DSCH and USCH resources for the UE Context, then the DRNC shall release the DSCH-RNTI allocated to the UE Context, if there was one.]

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK RECONFIGURATION PREPARE 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 PREPARE 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.]

[FDD – If Primary CPICH usage for channel estimation information has been reconfigured, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If Secondary CPICH information for channel estimation has been reconfigured, the DRNC shall include the *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *Phase Reference Update Indicator* IE, DRNC shall modify the channel estimation information according to [10] subclause 4.3.2.1 and set the value(s) in *Primary CPICH Usage For Channel Estimation* IE and/or *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message accordingly.]

General

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IE in the [TDD - DSCHs To Modify IE, DSCHs To Add IE, [TDD - USCHs To Modify IE, USCHs To Add IE], HS-DSCH Information IE, HS-DSCH Information To Modify IE, HS-DSCH MAC-d Flows To Add IE, [FDD - E-DCH MAC-d Flows to Add,] or in the *RL Specific DCH Information* IEs, 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, HS-DSCH MAC-d flow [FDD - or E-DCH MAC-d flow] being added, or any Transport Channel, HS-DSCH MAC-d flow [FDD - or E-DCH MAC-d flow] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel, HS-DSCH MAC-d flow [FDD - or E-DCH MAC-d flow being added,] or any Transport Channel, HS-DSCH MAC-d flow [FDD - or E-DCH MAC-d flow] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iur interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included for only 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 *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included 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 READY 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 READY 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 READY 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 in the RADIO LINK RECONFIGURATION READY message the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively. 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 or lower than indicated by the *Minimum DL TX Power* IE or lower than is configured to use DPCH in the downlink, 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 READY 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 READY 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* IE or lower than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower

[TDD - If the [3.84Mcps TDD - *DL Time Slot ISCP Info* IE][1.28Mcps TDD - *DL Time Slot ISCP Info LCR* IE] is present, the DRNS should use the indicated values when deciding the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the The DRNS shall use the indicated values when deciding the Initial DL TX Power.]

8.3.4.3 Unsuccessful Operation

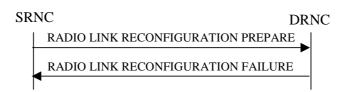


Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the DRNS cannot reserve the necessary resources for all the new DCHs of a set of co-ordinated DCHs requested to be added, it shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs, the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure for each failed radio link in a *Cause* IE.

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;
- Number of DL Codes not Supported;
- Number of UL Codes not Supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported;
- RL Timing Adjustment not Supported;
- [FDD HARQ Preamble Mode not supported].
- [FDD E-DCH not supported].
- F-DPCH not supported.

Miscellaneous Causes:

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

8.3.4.4 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 Synchronised Radio Link Reconfiguration Preparation procedure as having failed and 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 Synchronised Radio Link Reconfiguration Preparation procedure and the DRNC shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE" and SSDT is not active in the current configuration, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure if the *UL DPCH Information* IE does not include the *SSDT Cell Identity Length* IE. The DRNC shall then respond with a RADIO LINK RECONFIGURATION FAILURE message.]

[FDD If the *DSCHs To Add* IE includes the *Enhanced DSCH PC* IE and the *DSCH To Modify* IE include the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", then the DRNS shall deactivate enhanced DSCH power control in the new configuration.]

[FDD If both the *DSCHs To Add* IE and the *DSCH To Modify* IE include *Enhanced DSCH PC* IE, then the DRNS shall ignore the *Enhanced DSCH PC* IE in the *DSCH To Add* IE.]

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

[FDD - If the *RL Information* IE includes the *DL Reference Power* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation 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 "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message includes more than one *DL Reference Power* IE, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation 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 RADIO LINK RECONFIGURATION PREPARE message does not include the *Split Type* IE but includes *TFCI Signalling Mode* IE set to "Split", then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE message does not include the *Length of TFCl2* IE but the *Split type* IE is set to "Logical", then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE 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 DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE message does not include the *Split Type* IE but includes the *Length of TFCI2* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

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

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the concerned UE Context is configured to use DPCH in the downlink in the old configuration and if the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to use F-DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes at least one but not all of the *TFCS* IE, *DL DPCH Slot Format* IE, *TFCI Signalling Mode* IE, *Multiplexing Position* IE, *Limited Power Increase* IE and *DL DPCH Power Information* IE in the *DL DPCH Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

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 may 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. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink 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.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For 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 the Physical channel BER 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 may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink 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 Startpoint 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 Endpoint 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. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the 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.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *E-TFCS* IE, the DRNS shall use the *E-TFCS* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the uplink of the new configuration.]

[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 REQUEST 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 LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the DRNS shall use the indicated HARQ Preamble Mode as described in [10].]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

Intra-DRNS Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The DRNS shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The DRNC may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message.
- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [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 LCR* IE] in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [TDD The DRNC shall include the [3.84 Mcps TDD *HS-PDSCH Timeslot Specific Information* IE] [1.28 Mcps TDD *HS-PDSCH Timeslot Specific Information LCR* IE] in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To 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 for a Priority Queue in the *HS-DSCH Information To Modify Unsynchronised* IE, then the DRNS 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 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.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the DRNS shall use the indicated HARQ Preamble Mode in the new configuration as described in [10].]

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. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the 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 for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

[FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the *RL Information* IE contains the *RL specific E-DCH Information* IE for one Radio Link then:

- The DRNS shall setup the requested E-DCH resources on the Radio Link indicated by the *RL ID* IE in the *RL Information* IE.
- The RADIO LINK RECONFIGURATION REQUEST message shall contain in the *RL Information* IE for every RL the *E-DCH RL Indication* IE indicates whether this RL has configured E-DCH resources.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE for an E-DCH MAC-d flow in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum Number of Retransmissions for E-DCH* IE for a E-DCH MAC-d flow in the *E-DCH FDD Information* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.
- The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.
- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.
- The DRNC shall include the *E-AGCH and E-RGCH and E-HICH FDD Scrambling Code* IE and the *E-RGCH and E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* IE and the *E-HICH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:

- If the old Serving E-DCH RL is within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.
- If the new Serving E-DCH RL is within this DRNS, the DRNS shall allocate an E-RNTI identifier for the new Serving E-DCH Radio Link and include this identifier along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *RL Information Response* IE for the indicated RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE, then:

- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Data Description Indicator* IE, the DRNC shall use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum Number of Retransmissions for E-DCH* IE for a E-DCH MAC-d flow in the *E-DCH FDD Information To Modify* IE, then the DRNS shall use this information to report if the maximum number of retransmissions has been exceeded.
- The DRNC shall include the *E-AGCH and E-RGCH and E-HICH FDD Scrambling Code* IE and the *E-RGCH and E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* IE and the *E-HICH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - E-DCH MAC-d Flow Addition:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Add* IE, then the DRNS shall use this information to add the indicated E-DCH MAC-d flows.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:

- The DRNS may use the *Traffic Class* IE for a specific E-DCH 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-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]

[FDD - E-DCH MAC-d Flow Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.]

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

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, *HS-DSCH Information* IE, *HS-DSCH Information To Modify Unsynchronised* IE, *HS-DSCH MAC-d Flows To Add* IE, [FDD - or *E-DCH MAC-d Flows to Add* IE], 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, HS-DSCH MAC-d flow [FDD - or E-DCH 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 DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message for any Transport Channel, HS-DSCH MAC-d flow [FDD - or E-DCH MAC-d] flow being added, or any Transport Channel, HS-DSCH MAC-d flow [FDD - or E-DCH 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 or on the F-DPCH of the RL except, if the UE Context is configured to use DPCH in the downlink, 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* 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 or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

8.3.7.3 Unsuccessful Operation

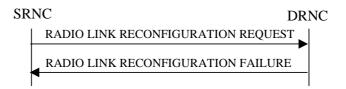


Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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;
- [FDD HARQ Preamble Mode not supported].
- [FDD E-DCH 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the UE Context, the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

8.4.2 Common Transport Channel Resources Release

8.4.2.1 General

This procedure is used by the SRNC to request release of Common Transport Channel Resources for a given UE in the DRNS. The SRNC uses this procedure either to release the UE Context from the DRNC (and thus both the D-RNTI and the C-RNTI) or to release only the C-RNTI.

This procedure shall use the connectionless mode of the signalling bearer.

8.4.2.2 Successful Operation



Figure 29: Common Transport Channel Resources Release procedure, Successful Operation

The SRNC initiates the Common Transport Channel Resources Release procedure by sending the COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST message to the DRNC. Upon receipt of the message the DRNC shall release the UE Context identified by the D-RNTI and all its related RACH, [FDD - CPCH,] and/or FACH resources, unless the UE is using dedicated resources (DCH, [TDD - USCH,] and/or DSCH]) in the DRNS in which case the DRNC shall release only the C-RNTI and all its related RACH, [FDD - CPCH,] and/or FACH resources allocated for the UE.

8.4.2.3 Abnormal Conditions

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
SRNC-ID	М		RNC-ID 9.2.1.50		YES	reject
S-RNTI	Μ		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	Μ		9.2.2.53		-	
>Min UL Channelisation Code Length	М		9.2.2.25		-	
>Max Number of UL	C –		9.2.2.24		_	
DPDCHs	CodeLen					
>Puncture Limit	М		9.2.1.46	For the UL.	_	
>TFCS	М		9.2.1.63		_	
>UL DPCCH Slot Format	M		9.2.2.52		_	
>Uplink SIR Target	0		Uplink SIR 9.2.1.69		-	
>Diversity mode	М		9.2.2.8		_	
>SSDT Cell Identity Length	0		9.2.2.41		_	
>S Field Length	0		9.2.2.36		_	
>DPC Mode	0		9.2.2.12A		YES	reject
>UL DPDCH Indicator for E- DCH operation	C- EDCHInfo		9.2.2.52A		YES	reject
DL DPCH Information		01			YES	reject
>TFCS	М				-	
			9.2.1.63			
>DL DPCH Slot Format	Μ		9.2.2.9		-	
>Number of DL Channelisation Codes	М		9.2.2.26A		_	
>TFCI Signalling Mode	Μ		9.2.2.46		_	
>TFCI Presence	C- SlotFormat		9.2.1.55		-	
>Multiplexing Position	M		9.2.2.26		_	
>Power Offset Information		1			_	
>>PO1	М		Power Offset 9.2.2.30	Power offset for the TFCI bits.	_	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	_	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	_	
>FDD TPC Downlink Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	Μ		9.2.2.21a		_	
	θ		9.2.2.39a		YES	reject
>Length of TFCI2	Ð		9.2.2.21C		YES	reject
DCH Information	M		DCH FDD Information 9.2.2.4A		YES	reject
DSCH Information	0		DSCH FDD Information 9.2.2.13A		¥ ES	reject
RL Information		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxn<>			EACH	notify

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
		oofRLs>				
>RL ID	M		9.2.1.49		_	
>C-ID	M		9.2.1.6		_	
>First RLS Indicator	М		9.2.2.16A		-	
>Frame Offset	М		9.2.1.30		-	
>Chip Offset	М		9.2.2.1		_	
>Propagation Delay	0		9.2.2.33		_	
>Diversity Control Field	C – NotFirstRL		9.2.1.20		_	
>Initial DL TX Power	0		DL Power 9.2.1.21A		_	
>Primary CPICH Ec/No	0		9.2.2.32		_	
>SSDT Cell Identity	0		9.2.2.40		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		-	
SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.40A		YES	ignore
>Enhanced Primary CPICH Ec/No	0		9.2.2.131		YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0	1	9.2.1.19Aa		YES	reject
>Qth Parameter	0		9.2.2.34a		YES	ignore
>Cell Portion ID	0		9.2.2.E		YES	ignore
>RL specific E-DCH	0		9.2.1.30O		YES	reject
Information			С			-
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
DL Power Balancing Information	0		9.2.2.10A		YES	ignore
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-PDSCH RL ID	C – InfoHSDS CH		RL ID 9.2.1.49		YES	reject
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
MBMS Bearer Service List		0 <maxn oofMBMS ></maxn 			GLOBAL	notify
>TMGI	М		9.2.1.80		-	
E-DPCH Information		01			YES	reject
>Min UL Channelisation Code Length for E-DCH FDD	М		9.2.2.25A		_	
>Max Number of UL E- DPDCHs	C- CodeLenE DCH		9.2.2.24e		_	
>Puncture Limit	M		9.2.1.50		_	
>E-TFCS	M	1	9.2.2.4G		_	
>E-TTI	M	1	9.2.2.4J		_	
E-DCH FDD Information	0		9.2.2.45 9.2.2.4B		YES	reject
Serving E-DCH RL	C- EDCHInfo		9.2.1.45D		YES	reject
F-DPCH Information	22011110	01			YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Power Offset Information		1			-	
>>PO2	М		Power Offset 9.2.2.30	Power offset for the TPC bits.	-	
>FDD TPC Downlink Step Size	М		9.2.2.16		-	
>Limited Power Increase	Μ		9.2.2.21A		-	
>Inner Loop DL PC Status	Μ		9.2.2.21a		_	
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.21b		YES	ignore

Condition	Explanation
CodeLen	The IE shall be present if Min UL Channelisation Code length IE
	equals to 4
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to
	any of the values from 12 to 16.
NotFirstRL	The IE shall be present if the RL is not the first one in the RL
	Information IE.
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH Information
	IE is not equal to "none".
EDSCHPC	This IE shall be present if Enhanced DSCH PC IE is present in the
	DSCH Information IE.
InfoHSDSCH	This IE shall be present if HS-DSCH Information IE is present.
EDCHInfo	This IE shall be present if E-DPCH Information IE is present.
CodeLenEDCH	The IE shall be present if Min UL Channelisation Code length for E-
	DCH FDD IE equals to 2.

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD 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		9.2.1.59		_	· ·
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		1 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.49		_	
>RL Set ID	М		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		9.2.1.52		_	1
>Cell GAI	0		9.2.1.5A		_	1
>UTRAN Access Point	0		9.2.1.70A		_	
Position >Received Total Wide Band	-				_	
Power	M		9.2.2.35A		-	
>Secondary CCPCH Info	0		9.2.2.37B		-	ļ
>DL Code Information	М		FDD DL		-	
			Code Information 9.2.2.14A			
>CHOICE Diversity Indication	М				_	
>>Combining		1			_	<u> </u>
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	-	
>>>DCH Information	0		9.2.1.16A	Corribining	YES	ignore
Response >>>E-DCH FDD	0		9.2.2.4C		YES	ignore
Information Response >>Non Combining or First					_	
RL						
>>>DCH Information Response	М		9.2.1.16A		_	
>>>E-DCH FDD Information Response	Μ		9.2.2.4C		YES	ignore
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Maximum Uplink SIR	М		Uplink SIR		_	
r -			9.2.1.69			
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Primary Scrambling Code	0		9.2.1.45	1	_	†
>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	-	
>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_	
>Primary CPICH Power	М		9.2.1.44		-	1
>Not UsedDSCH Information	0	1	NULL		- YES	ignore

IE/Group Name	Presence	Range	ІЕ Туре	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Response			H FDD			
Response			Information			
			Response			
			9.2.2.13B			
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>PC Preamble	Μ		9.2.2.27a		_	
>SRB Delay	Μ		9.2.2.39A		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>TFCI PC Support Indicator	θ		9.2.2.46A		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>Active MBMS Bearer Service List		0 <maxno ofActiveM BMS></maxno 			GLOBAL	ignore
>>TMGI	М		9.2.1.80		_	
>>Transmission Mode	М		9.2.1.81		-	
>Initial DL DPCH Timing	0		DL DPCH		YES	ignore
Adjustment			Timing Adjustment 9.2.2.9A			
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	θ		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59			
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD , not applicable to 1.28Mcps TDD	YES	ignore
>RL ID	Μ		9.2.1.49		-	
>URA Information	0		9.2.1.70B		-	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>UL Time Slot ISCP Info	М		9.2.3.13D		_	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Cell Parameter ID	0		9.2.1.8		-	
>Sync Case	0		9.2.1.54		-	
>SCH Time Slot	C-Case2		9.2.1.51		_	
>SCTD Indicator	0		9.2.1.78			
>PCCPCH Power	M		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A		_	
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	М		9.2.3.13B		-	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		_	
>UL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>UL DPCH Information		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	Ŭ Ŭ
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot Information	M		9.2.3.13C		_	
>>Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
		1 -		For DCH	GLOBAL	ignore
CCTrCH >DL CCTrCH Information		0 <maxno ofCCTrCH</maxno 				5
>DL CCTrCH Information	M		9232			
	M	ofCCTrCH	9.2.3.2		- YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
>>>Repetition Length	M		9.2.3.6		—	
>>>TDD DPCH Offset >>>DL Timeslot	M		9.2.3.8A		-	
Information	М		9.2.3.2C			
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof DSCHs></maxnoof 				
>>DSCH ID	М		9.2. <u>3.x1</u> 4.2 6A		-	
>>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		-	
>>Binding ID	0	<u> </u>	9.2.1.3			<u> </u>
	0		9.2.1.3		-	<u> </u>
>>Transport Layer Address >>Transport Format	M	1	9.2.1.62			
Management			3.2.3.13		—	
>USCH Information		0			GLOBAL	ignore
Response		<maxnoof USCHs></maxnoof 			GLODAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Time Slot for SCH	C-Case1		Time Slot		YES	ignore
			9.2.1.56			:
Uplink SIR Target	М		Uplink SIR		YES	ignore
Criticality Diagnostics	0	1	9.2.1.69 9.2.1.13		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD, not applicable to 1.28Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	М		9.2.1.70B			
>SAI	М		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info LCR	М		9.2.3.13H		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Maximum DL TX Power	M		ReferenceDL Power		_	
>Minimum DL TX Power	M		9.2.1.21A DL Power		_	
			9.2.1.21A			
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	_	
>Cell Parameter ID	0		9.2.1.8		-	
>SCTD Indicator	0		9.2.1.78		_	
>PCCPCH Power	М		9.2.1.43		_	
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		-	
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		—	
>UL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	320/(>	9.2.3.2		_	
>>UL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	М	1	9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>UL Timeslot Information LCR	М		9.2.3.13G		_	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		YES	ignore
>DL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR></maxno 	0.2.1100	For DCH	GLOBAL	ignore
>>CCTrCH ID	M	320172	9.2.3.2			
>>DL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information LCR	M		9.2.3.2E			
>>>TSTD Indicator	М		9.2.3.13E		-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response LCR		0 <maxnoof DSCHsLC R></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		-	
>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		_	
>>Binding ID	0	1	9.2.1.3		_	
>>Transport Layer Address	0	1	9.2.1.62		-	
>>Transport Format Management	M		9.2.3.13		_	
>USCH Information Response LCR		0 <maxnoof USCHsLC R></maxnoof 			GLOBAL	ignore
>>USCH ID	М	1	9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>Uplink Timing Advance Control LCR	М		9.2.3.13K		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH <u>-</u> -RNTI	0		9.2. <u>3.x4</u> 1.2 6Ba		YES	ignore
Active MBMS Bearer Service List		0 <maxno ofActiveM BMS></maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		-	
>Transmission Mode	М		9.2.1.81		_	

Condition	Explanation
Case2	The IE shall be present if Sync Case IE is equal to "Case2".
Case1	This IE shall be present if Sync Case IE is equal to "Case1".

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE for 3.84Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in
	parallel.

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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	M		9.2.1.59			
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
CHOICE Cause Level	M		5.2.1.11		YES	ignore
>General	101				-	ignore
>>Cause	М		9.2.1.5		_	
>RL Specific			0.2.110			
>>Unsuccessful RL		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs>			2,1011	ignore
>>>RL ID	М	0111207	9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>>Active MBMS	101	0 <maxno< td=""><td>0.2.1.0</td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>	0.2.1.0		GLOBAL	ignore
Bearer Service List		ofActiveM BMS>			OLOD, IL	ignore
>>>TMGI	М		9.2.1.80		_	1
>>>>Transmission	М	1	9.2.1.81		-	1
Mode						
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				C C
>>>RL ID	Μ		9.2.1.49		_	
>>>RL Set ID	Μ		9.2.2.35		_	
>>>URA Information	0		9.2.1.70B		_	
>>>SAI	Μ		9.2.1.52		-	
>>>Cell GAI	0		9.2.1.5A		-	
>>>UTRAN Access Point	0		9.2.1.70A		_	
Position						
>>>Received Total Wide Band Power	М		9.2.2.35A		_	
>>>Secondary CCPCH Info	0		9.2.2.37B		_	
>>>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>>>CHOICE Diversity Indication	М				-	
>>>Combining					_	
>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	-	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>>Non Combining or First RL					_	
>>>>DCH Information Response	М		9.2.1.16A		-	
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>SSDT Support Indicator	М		9.2.2.43		_	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		Ι	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>>>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>>>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Primary CPICH Power	М		9.2.1.44		-	
>>>Primary Scrambling Code	0		9.2.1.45		-	
>>>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_	
>>> <u>Not Used</u> DSCH Information Response	0		NULLDSC H FDD Information Response 9.2.2.13B		_ YES	ignore
>>Neighbouring UMTS Cell Information	0		9.2.1.41A		Ι	
>>Neighbouring GSM Cell Information	0		9.2.1.41C		Ι	
>>>PC Preamble	М		9.2.2.27a		Ι	
>>>SRB Delay	М		9.2.2.39A			
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxno ofActiveM BMS></maxno 			GLOBAL	ignore
>>>>TMGI	М		9.2.1.80		_	
>>>>Transmission Mode	М		9.2.1.81		-	
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9A		YES	ignore
>>DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
>>HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
>>HS-DSCH Information Response	0		HS-DSCH FDD Information Response		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.2.19b			
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
RL Information Response		1 <maxnoof RLs-1></maxnoof 			EACH	ignore
>RL ID	Μ		9.2.1.49		_	
>RL Set ID	Μ		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>Received Total Wide Band Power	Μ		9.2.2.35A		-	
>Secondary CCPCH Info	0		9.2.2.37B		-	
>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>CHOICE Diversity Indication	Μ				—	
>>Combining					—	
>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>Non Combining					-	
>>>DCH Information Response	М		9.2.1.16A		_	
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Minimum Uplink SIR	Μ		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	Μ		Uplink SIR 9.2.1.69		—	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	Μ		DL Power 9.2.1.21A		—	
>Minimum DL TX Power	Μ		DL Power 9.2.1.21A		—	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	М		9.2.2.39A		_	
>Primary CPICH Power	М		9.2.1.44		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
<mark>≻TFCLPC Support</mark> Indicator	0		9.2.2.46A		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S></maxnoof 			GLOBAL	ignore
>>TMGI	М		9.2.1.80		_	
>>Transmission Mode	М		9.2.1.81		-	
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation		
maxnoofRLs	Maximum number of radio links for one UE.		
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.		

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
RL Information Response		01		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	0		9.2.1.70B		_	
>SAI	Μ		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		-	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	М		9.2.3.13D		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35			
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>PCCPCH Power	Μ		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A		_	
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation Configuration	M		9.2.3.7E		-	
>Secondary CCPCH Info TDD	0		9.2.3.7B		-	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01	0.2.0.2		YES	ignore
Information		0				ignere
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>UL Timeslot Information	М		9.2.3.13C		-	
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	М	1	9.2.3.7		_	1
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information	M		9.2.3.2C		_	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
>DCH Information		01	Reference			
>>CHOICE Diversity	M	01				
Indication					_	
>>>Combining				5.	_	
>>>RL ID	М		9.2.1.49	Reference RL	-	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>Non Combining					-	
>>>>DCH Information Response	M		9.2.1.16A		-	
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	Μ		9.2. <u>3.x1</u> 1.2 6A		-	
>>Transport Format Management	М		9.2.3.13		_	
>>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		_	
>>CHOICE Diversity Indication	0				_	
>>>Non Combining					_	
>>>Binding ID	0		9.2.1.3		_	
>>>>Transport Layer Address	0		9.2.1.62		_	
>USCH Information Response		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	Μ	030113>	9.2.3.14			
>>Transport Format	M		9.2.3.14			
Management >>CHOICE Diversity Indication	0				_	
>>>Non Combining						
>>>Binding ID	0		9.2.1.3			
	0		9.2.1.62			
>>>> I ransport Layer Address	0		9.2.1.41A			
>Neighbouring UMTS Cell Information					-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	М		9.2.1.70B		-	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A			
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info LCR	М		9.2.3.13H		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
>Minimum Uplink SIR	М		Uplink SIR		_	
			9.2.1.69			
>PCCPCH Power	M		9.2.1.43		_	
>Maximum Allowed UL Tx Power	M		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		—	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>Alpha Value	М		9.2.3.a		-	
>UL PhysCH SF Variation	Μ		9.2.3.13B		-	
>Synchronisation Configuration	М		9.2.3.7E		—	
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		_	
>UL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information LCR						
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>UL Timeslot Information LCR	М		9.2.3.13G		_	
>DL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	10	9.2.3.2		_	
>>DL DPCH		01	0.2.0.2		YES	ignore
Information LCR						
>>>Repetition Period	M		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		-	
>>>TSTD Indicator	M		9.2.3.13E		_	
>DCH Information	M		9.2.1.16A		_	
Response						
>DSCH Information		0			GLOBAL	ignore
Response LCR		<maxnoof DSCHsLCR ></maxnoof 				
>>DSCH ID	M		9.2. <u>3.x1</u> 1.2 6A		_	
>>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		_	
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format Management	М		9.2.3.13		-	
>USCH Information Response LCR		0 <maxnoof USCHsLCR</maxnoof 			GLOBAL	ignore
>>USCH ID	M	>	9.2.3.14		<u> </u>	
>>Transport Format	M		9.2.3.14		_	
Management >>CHOICE Diversity	0		0.2.0.10			
Indication	0				-	
>>>Non Combining		-	0.010		_	
>>>>Binding ID	0		9.2.1.3		—	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Transport Layer Address	0		9.2.1.62		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Uplink Timing Advance Control LCR	М		9.2.3.13K		YES	ignore
Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S></maxnoof 			GLOBAL	ignore
>TMGI	М		9.2.1.80		—	
>Transmission Mode	М		9.2.1.81		_	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCHs for one UE for 3.84Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

9.1.8 RADIO LINK ADDITION FAILURE

9.1.8.1 FDD 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	M		9.2.1.59		-	10,000
CHOICE Cause Level	M		0.211100		YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxnoof RLs-1></maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>Cause	M		9.2.1.5		_	
>>>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S></maxnoof 	0.2.110		GLOBAL	ignore
>>>>TMGI	М		9.2.1.80		_	
>>>>Transmission Mode	М		9.2.1.81		_	
>>Successful RL		0 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-2>				3
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	М		9.2.2.35		_	
>>>URA Information	0		9.2.1.70B		_	
>>>SAI	M		9.2.1.52		_	
>>>Cell GAI	0		9.2.1.5A		_	
>>>UTRAN Access Point Position	0		9.2.1.70A		_	
>>>Received Total Wide Band Power	М		9.2.2.35A		_	
>>>Secondary CCPCH	0		9.2.2.37B		-	
>>>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>CHOICE Diversity Indication	М				-	
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD Information Response >>>Non Combining	M		9.2.2.4C		YES	ignore
>>>>DCH Information Response	M		9.2.1.16A			
>>>>E-DCH FDD Information Response	Μ		9.2.2.4C		YES	ignore
>>>SSDT Support Indicator	М		9.2.2.43		-	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		-	
>>>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>>>Primary CPICH Power	М		9.2.1.44		_	
>>>PC Preamble	М		9.2.2.27a		_	
>>>SRB Delay	М		9.2.2.39A		_	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	θ		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S></maxnoof 			GLOBAL	ignore
>>>>TMGI	М		9.2.1.80		-	
>>>>Transmission Mode	М		9.2.1.81		_	
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation			
maxnoofRLs	Maximum number of radio links for one UE.			
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are			
	active in parallel.			

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Maaaana Turaa	N4		Reference		YES	maia at
Message Type Transaction ID	M		9.2.1.40		TES	reject
Allowed Queuing Time	0		9.2.1.59 9.2.1.2		YES	reject
UL DPCH Information	0	01	9.2.1.2		YES	reject
		01	9.2.2.53		163	reject
>UL Scrambling Code	0				_	
>UL SIR Target	-		Uplink SIR 9.2.1.69		_	
>Min UL Channelisation Code Length	0		9.2.2.25		—	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		-	
>Puncture Limit	0		9.2.1.46	For the UL.	_	
>TFCS	0		9.2.1.63	TFCS for the UL.	-	
>UL DPCCH Slot Format	0		9.2.2.52	02.	_	
>Diversity Mode	0		9.2.2.8		_	
>SSDT Cell Identity	0		9.2.2.41			
Length			3.2.2.41			
>S-Field Length	0		9.2.2.36			
DL DPCH Information		01	3.2.2.00		YES	reject
>TFCS	0	01	9.2.1.63	TFCS for the DL.	-	Teject
>DL DPCH Slot Format	0		9.2.2.9			
>Number of DL	0				—	
Channelisation Codes	-		9.2.2.26A		_	
>TFCI Signalling Mode	0		9.2.2.46		_	
>TFCI Presence	C- SlotFormat		9.2.1.55		_	
>Multiplexing Position	0		9.2.2.26		-	
>Limited Power Increase	0		9.2.2.21A		_	
<mark>≻Split Type</mark>	0		9.2.2.39a		¥ ES	reject
>Length of TFCI2	Ð		9.2.2.21C		¥ ES	reject
>DL DPCH Power		01			YES	reject
Information		01			120	10,000
>>Power Offset Information		1			_	
>>>PO1	М		Power Offset	Power offset for the TFCI	_	
			9.2.2.30	bits		
>>>PO2	М		Power Offset 9.2.2.30	Power offset for the TPC bits	-	
>>>PO3	М		Power Offset 9.2.2.30	Power offset for the pilot bits	-	
>>FDD TPC Downlink Step Size	М		9.2.2.16	0113	-	
>>Inner Loop DL PC Status	М		9.2.2.21a		-	
DCHs To Modify	0		FDD DCHs To Modify 9.2.2.13C		YES	reject
DCHs To Add	0		DCH FDD Information		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCHs To Delete		0	9.2.2.4A			
		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
DSCHs To Modify		01			YES	reject
>DSCH Info		0<maxnoof< del=""> DSCHs></maxnoof<>			-	
>>DSCH ID	H		9.2.1.26A		_	
>TrCH Source Statistics Descriptor	Ð		9.2.1.65		-	
>>Transport Format Set	θ		9.2.1.64	For DSCH	-	
>Allocation/ Retention Priority	θ		9.2.1.1		_	
>>Scheduling Priority Indicator	Ð		9.2.1.51A		-	
>>BLER	Ð	1	9.2.1.4		_	
	M		9.2.1.61		_	
	Ð		9.2.1.58A		YES	ignore
	0		9.2.1.30A 9.2.1.3	Shall be ignored if	YES	ignore
				bearer establishme nt with ALCAP.		
>>Transport Layer Address	θ		9.2.1.62	Shall be ignored if bearer ostablishme nt with ALCAP.	¥ES	i gnore
>PDSCH RL ID	Ð		RL ID 9.2.1.49		-	
>TFCS	Ð		9.2.1.63	For DSCH	_	
>Enhanced DSCH PC Indicator	θ		9.2.2.13F		YES	ignore
>Enhanced DSCH PC	C- EDSCHPC On		9.2.2.13D		YES	ignore
DSCHs To Add	θ		DSCH FDD Information 9.2.2.13A		YES	reject
DSCHs to Delete		01	8.2.2.10A		YES	reject
>DSCH Info		1 <maxnoof DSCHs></maxnoof 			-	i ajaut
>>DSCH ID	M	200118>	9.2.1.26A			
RL Information	•••	0 <maxnoof RLs></maxnoof 	9.2.1.20A		EACH	reject
>RL ID	M		9.2.1.49			
>SSDT Indication	0		9.2.1.49		-	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.42			
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
SSDT Cell Identity for EDSCHPC	EDSCHPC		9.2.2.40A		YES	ignore
>DL Reference Power	0		DL Power 9.2.1.21A	Power on DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
	_		Reference			
>DL DPCH Timing Adjustment	0		9.2.2.9A	Required RL Timing Adjustment	YES	reject
>Qth Parameter	0		9.2.2.34a	-	YES	ignore
>Phase Reference Update Indicator	0		9.2.2.27B		YES	ignore
>RL specific E-DCH Information	0		9.2.1.30O C		<u>YES</u>	<u>reject</u>
>E-DCH MAC-d Flows to Add	0		9.2.1.300 C		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
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
E-DPCH Information		01			YES	reject
>Min UL Channelisation Code Length for E-DCH FDD	0		9.2.2.25A		_	
>Max Number of E- DPDCHs	C- CodeLenE DCH		9.2.2.24e		_	
>Puncture Limit	0		9.2.1.50		_	
>E-TFCS	0		9.2.2.4G		_	
>E-TTI	0		9.2.2.4J		-	
E-DCH FDD Information	0		9.2.2.4B		YES	reject
E-DCH FDD Information to Modify	0		9.2.2.4F		YES	reject
E-DCH MAC-d Flows to Delete	0		9.2.2.30O D		YES	reject
Serving E-DCH RL	0		9.2.1.45D		YES	reject
F-DPCH Information		01			YES	reject
>Power Offset Information		1			_	
>>PO2	Μ		Power Offset 9.2.2.30	Power offset for the TPC bits.	_	
>FDD TPC Downlink Step Size	М		9.2.2.16		-	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	М		9.2.2.21a		_	

Condition	Explanation
SSDTIndON	The IE shall be present if the SSDT Indication IE is
	set to "SSDT Active in the UE".
CodeLen	The IE shall be present only if the Min UL
	Channelisation Code length IE equals to 4.
SlotFormat	The IE shall only be present if the DL DPCH Slot
	Format IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if Diversity Mode IE is present
	in the UL DPCH Information IE and is not equal to
	"none".
EDSCHPCOn	The IE shall be present if the Enhanced DSCH PC
	Indicator IE is set to "Enhanced DSCH PC Active in
	the UE".
EDSCHPC	The IE shall be present if Enhanced DSCH PC IE is
	present in either the DSCHs To Modify IE or the
	DSCHs To Add IE.
CodeLenEDCH	The IE shall be present if Min UL Channelisation
	Code length for E-DCH FDD IE equals to 2.

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofRLs	Maximum number of RLs for a UE.

9.1.11.2 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	M		9.2.1.59		-	10,000
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s></maxno 		For DCH and USCH	EACH	notify
>CCTrCH ID	М	01	9.2.3.2		_	
>TFCS	М		9.2.1.63	For the UL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Mandatory for 1.28Mcps TDD; not applicable to 3.84Mcps TDD	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD	YES	reject
UL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63	For the UL.	_	
>TFCI Coding	0		9.2.3.11		_	
>Puncture Limit	0		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH to Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DL CCTrCH To Add		0 <maxno ofCCTrCH s></maxno 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М		9.2.3.2			
>TFCS	М		9.2.1.63	For the DL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.46		_	
>TPC CCTrCH List		0 <maxno CCTrCHs></maxno 		List of uplink CCTrCH which provide TPC	_	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		_	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63	For the DL.	_	
>TFCI Coding	0	1	9.2.3.11		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Dura etura Linsit	0		Reference			
>Puncture Limit >TPC CCTrCH List	0	0	9.2.1.46	List of uplink	_	
		0 <maxno CCTrCHs></maxno 		List of uplink CCTrCH which provide TPC	_	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		_	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH to Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	Μ		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 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
DSCHs To Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2. <u>3.x1</u> 4.2 6A		_	
>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	-	
>TrCH Source Statistics Descriptor	0		9.2.1.65		_	
>Transport Format Set	0		9.2.1.64			
>Allocation/Retention Priority	0		9.2.1.1		Ι	
>Scheduling Priority Indicator	0		9.2.1.51A		_	
>BLER	0		9.2.1.4		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>Traffic Class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
DSCHs To Add	0		DSCH TDD Information 9.2.3.3a		YES	reject
DSCHs to Delete		0 <maxno ofDSCHs></maxno 	51210104		GLOBAL	reject
>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		_	
USCHs To Modify		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
		ofUSCHs>	Reference			
>USCH ID	M	OTUSCHS>	9.2.3.14		_	
>CCTrCH ID	0		9.2.3.2	<u>U</u> L CCTrCH in which the USCH is mapped.	_	
>TrCH Source Statistics Descriptor	0		9.2.1.65		_	
>Transport Format Set	0		9.2.1.64		-	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		Ι	
>BLER	0		9.2.1.4		-	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>TNL QoS	0		9.2.1.56A		YES	ignore
>RB Info		0 <maxno ofRB></maxno 		All Radio Bearers using this USCH	_	
>>RB Identity	М		9.2.3.5B		-	
>Traffic class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
USCHs To Add	0		USCH Information 9.2.3.15		YES	reject
USCHs to Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.14		-	
Primary CCPCH RSCP	0		9.2.3.5		YES	ignore
DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD only	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	ignore
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
PDSCH-RL-ID	0		RL ID 9.2.1.49		YES	ignore
UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	М		9.2.3.13J		_	
>Uplink Synchronisation Frequency	М		9.2.3.131		_	
RL Information		0 <maxno ofRLs.</maxno 			YES	ignore
>RL ID	М		9.2.1.49		_	
>RL Specific DCH Information	0		9.2.1.49A		_	
Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofRLs	Maximum number of RLs for one UE

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		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	1	9.2.2.37B		-	
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
> <u>Not Used</u> DSCHs to be Added or Modified	0		NULLDSC H FDD Information Response 9.2.2.13B		_ YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>Secondary CPICH Information Change	0		9.2.2.38B		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	Ð		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0	1	9.2.1.34B		YES	ignore

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

9.1.12.2 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		9.2.1.59		-	
RL Information Response		0 <maxnoof RLs></maxnoof 		See Note 1 below	YES	ignore
>RL ID	М		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 TDD	0		9.2.3.7B		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	-	9.2.3.2		_	
>>UL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>> Rx Timing Deviation	0		9.2.3.7A		_	
>>>UL Timeslot Information	М		9.2.3.13C		_	
>>UL DPCH to be Modified		01			YES	ignore
>>>Repetition Period	0		9.2.3.7		_	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>UL Timeslot Information		0 <maxnoo fTS></maxnoo 		Applicable to 3.84Mcps TDD only	I	
>>>>Time Slot	М		9.2.1.56		_	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information		0 <maxnoo fDPCHs></maxnoo 			-	
>>>>DPCH ID	М		9.2.3.3		-	
>>>>>TDD Channelisation Code	0		9.2.3.8		-	
>>>UL Timeslot Information LCR		0 <maxnoo fTSLCR></maxnoo 		Applicable to 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	M		9.2.3.12a		-	
>>>>Midamble Shift LCR	0		9.2.3.4C		_	
>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code		0 <maxnoo< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoo<>			GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Information LCR		fDPCHLCR>	Reference			
>>>>DPCH	М		9.2.3.3		_	
ID			0.2.0.0			
>>>>TDD	0		9.2.3.8a		_	
Channelisation						
Code LCR						
>>>> TDD	0		9.2.3.10C		YES	reject
UL DPCH						
Time Slot Format LCR						
>>UL DPCH to be		0 <maxnoof< td=""><td>-</td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>	-		GLOBAL	ignore
Deleted		DPCHs>			GLOBAL	ignole
>>>DPCH ID	М	DI OIIO	9.2.3.3			
>>UL DPCH to be		01	0.2.0.0	Applicable to	YES	ignore
Added LCR				1.28Mcps TDD only		·griere
>>>Repetition Period	Μ		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A			
>>>UL Timeslot	М		9.2.3.13G		_	
Information LCR						ļ
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>>DL Timeslot	Μ		9.2.3.2C		_	
Information						
>>DL DPCH to be		01			YES	ignore
Modified	0		0.0.0.7			
>>>Repetition Period	0		9.2.3.7		_	
>>>Repetition Length	0		9.2.3.6 9.2.3.8A		—	
>>>TDD DPCH Offset >>>DL Timeslot	0	0 <maxnoo< td=""><td>9.2.3.6A</td><td>Applicable to</td><td>_</td><td></td></maxnoo<>	9.2.3.6A	Applicable to	_	
Information		fTS>		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.1.56		_	
>>>Midamble Shift	0		9.2.3.4		_	
And Burst Type						
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information		0 <maxnoo fDPCHs></maxnoo 			-	
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code	0		9.2.3.8		_	
>>>DL Timeslot Information LCR		0 <maxno0 fTSLCR></maxno0 		Applicable to 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	М		9.2.3.12a	. DD only	_	
>>>>Midamble Shift	0		9.2.3.4C		_	1
LCR	-					
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code		0 <maxnoo< td=""><td> </td><td></td><td>GLOBAL</td><td>ignore</td></maxnoo<>			GLOBAL	ignore
Information LCR		fDPCHLCR>				
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code LCR	0		9.2.3.8a		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>> TDD DL DPCH Time Slot Format LCR	0		9.2.3.8E		YES	reject
>>>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>>>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>>DL DPCH to be Deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3			
>>DL DPCH to be Added LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7			
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		-	
>>>DL Timeslot Information LCR	М		9.2.3.2E		-	
>>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
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH to be Added or Modified		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2. <u>3.x1</u> 1.2 6A		_	
>>Transport Format Management	М		9.2.3.13		_	
>>DSCH Flow Control Information	М		9.2. <u>3.x3</u> 1.2 6B		_	
>>Binding ID	0		9.2.1.3		Ι	
>>Transport Layer Address	0		9.2.1.62		_	
>USCH to be Added or Modified		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Transport Format Management	М		9.2.3.13		-	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		-	
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD only	YES	ignore
Criticality Diagnostics	0		9.2.1.13	, 	YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH-RNTI	0		9.2. <u>3.x4</u> 1.2 6Ba		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

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

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD.
maxnoofDPCHs	Maximum number of DPCH for a UE for 3.84Mcps TDD.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofDPCHLCRs	Maximum number of DPCH for a UE for 1.28Mcps TDD.
maxnoofRLs	Maximum number of RLs for one UE

9.2.1.26A DSCH ID

<u>Void</u>. The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

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

9.2.1.26Aa DSCH Initial Window Size

Void.Indicates the initial number of MAC c/sh SDUs that may be transmitted before new credits are received from the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH Initial Window Size			INTEGER (1255)	Number of MAC-c/sh SDUs: 255 = Unlimited number of MAC-c/sh SDUs.

9.2.1.26B DSCH Flow Control Information

<u>Void</u>. The *DSCH Flow Control Information* IE provides flow control information for each scheduling priority class for the DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Flow Control Information		116			_	
>DSCH Scheduling Priority	M		Scheduling Priority Indicator 9.2.1.51A		_	
>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength></maxnb 			-	
>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>DSCH Initial Window Size	0		9.2.1.26Aa		YES	Ignore

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

9.2.1.26Ba DSCH-RNTI

<u>Void</u>. DSCH RNTI is the UE identifier allocated by DRNS to be used over the radio interface by UEs having one or several DSCHs [TDD and/or USCHs]. It is unique within a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH-RNTI			INTEGER(0.	
			.65535)	

9.2.1.29 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH, [TDD - /DSCH] for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER (015)	0=Lowest Priority,
			, , , ,	15=Highest Priority

9.2.1.34 MAC-c/sh SDU Length

Indicates the MAC-c/sh SDU Length. Which is used for FACH, [TDD - DSCH and USCH]. There may be multiple MAC-c/sh SDU Lengths per priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-c/sh SDU Length			INTEGER(1. .5000)	Size of the MAC-c/sh SDU in number of bits.

9.2.1.51A Scheduling Priority Indicator

Indicates the relative priority of the FACH, [TDD - DSCH, USCH] or HS-DSCH data frame. Used by the DRNC when scheduling FACH, [TDD - DSCH, USCH] or HS-DSCH traffic.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Priority Indicator			INTEGER(0. .15)	Relative priority of the FACH, [TDD - DSCH, USCH] or HS- DSCH data frame: 0=Lowest Priority 15=Highest Priority

9.2.1.63 Transport Format Combination Set (TFCS)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable to DL Transport Channels.

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

Method #1 TFCI range

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

Method #2 Explicit

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE DSCHCHOICE TFCS Values	М			
> <u>Always Used</u> No Split in the TFCI				This choice is <u>always</u> made <u>if</u> a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Radio Links of the concerned UE are assigned any DSCH transport channels OR c) The mode is TDD
>>TFCS		1 <maxnooftfcs ></maxnooftfcs 		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFC 0) should be ignored by the receiver.]
>>>CTFC	М		9.2.1.14A	
>>>CHOICE Gain Factors	C- PhysChan			
>>>>Signalled Gain Factors				
>>>>Gain Factor β_C	Μ		INTEGER(0 15)	[FDD - For UL DPCCH or control part of PRACH ref. [21].] [TDD - β for UL DPCH mapping in accordance to [13].]
>>>>Gain Factor β⊳	М		INTEGER(0 15)	[FDD - For UL DPDCH or dat part of PRACH ref. [21].] [TDD - Should be set to 0 by the sender, and shall be ignored by the receiver.]
>>>>Reference TFC nr	0		INTEGER(0 15)	If this TFC is a reference TFC this IE indicates the reference number
>>>Computed Gain Factors				
>>>>Reference TFC nr	M		INTEGER(0 15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
> <u>Not Used</u> There is a split in the TFC I			NULL	This choice is <u>hall never be</u> made by the SRNC and the DRNC shall consider the procedure as failed if it is received. : a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned on or more DSCH transport channels
>>Transport Format Combination_DCH		1 <maxtfci_1_c ombs></maxtfci_1_c 		The first instance of the Transport Format Combination_DCH1E corresponds to TFCI (field 1) 0, the second to TFCI (field 1 = 1 and so on.
>>>CTFC(field1)	M		9.2.1.14A	
>>Choice Signalling	₩			

>>> TFCI Range				
>>>>TFC Mapping on DSCH		1 <maxnotfclgr oups></maxnotfclgr 		
>>>>Max TFCI(field2) Value	м		INTEGER(1 <maxtfci _2_Combs - 1>)</maxtfci 	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field 2)	M		9.2.1.14A	Integer number calculated according to [16] The calculation of CTFC ignores any DCH transport channels which may be assigned
>>>Explicit				
>>>>Transport Format Combination_DSC H		1 <maxtfci_2_c ombs></maxtfci_2_c 		The first instance of the Transport Format Combination_DSCH IE corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field 2)	₩		9.2.1.14A	Integer number calculated according to [16] . The calculation of CTFC ignores any DCH transport channels which may be assigned

Condition	Explanation
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH
	[FDD – or PRACH channel].

Range bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations.
maxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1)).
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2)).
maxNoTECIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies.
-MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^{I} (L_i - 1)P_i$ with the notation according to ref. [16].

9.2.2.D Cell Capability Container FDD

The Cell Capability Container FDD indicates which functionalities a cell supports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container FDD			BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Flexible Hard Split Support IndicatorReserved. The second bit: Delayed Activation Support Indicator. The third bit: HS-DSCH Support Indicator. The fourth bit: DSCH Support Indicator. The fourth bit: F-DPCH Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. Note that Reserved bits are not considered as a spare bit. They shall however be set to 0 by the transmitter and shall be ignored by the receiver.

9.2.2.13A DSCH FDD Information

Void. The DSCH FDD Informa	anon ie pr	rovides inform	Hatton for DSCHS	to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Specific FDD		1<maxno< del=""></maxno<>		See Note 1	_	
Information		ofDSCHs>		below.		
>DSCH ID	M		9.2.1.26A		_	
→TrCH Source Statistics Descriptor	М		9.2.1.65		-	
→Transport Format Set	M		9.2.1.64	For DSCH	_	
>Allocation/Retention Priority	м		9.2.1.1		_	
Scheduling Priority Indicator	₩		9.2.1.51A		-	
>BLER	M		9.2.1.4		_	
>Traffic Class	M		9.2.1.58A		YES	ignore
→Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignoro
>Transport Layer Address	θ		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	¥ ES	ignore
PDSCH RL ID	M		RL ID 9.2.1.49		-	
TFCS	M		9.2.1.63	For DSCH	_	
Enhanced DSCH PC	θ		9.2.2.13D		YES	ignore

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.

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

9.2.2.13B DSCH FDD Information Response

<u>Void</u>. The *DSCH FDD Information Response* IE provides information for DSCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Specific FDD Information Response		1<maxno< del=""> ofDSCHs></maxno<>			-	
>DSCH ID	M		9.2.1.26A		-	
>DSCH Flow Control Information	₩		9.2.1.26B		-	
->Binding ID	Ð		9.2.1.3		-	
>Transport Layer Address	Ð		9.2.1.62		_	
PDSCH Code Mapping	M		9.2.2.27A	PDSCH code mapping to be used	_	

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.

9.2.2.13D Enhanced DSCH PC

<u>Void</u>. The Enhanced DSCH PC includes all the parameters which are needed for DSCH power control improvement during soft handover.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd	М		9.2.2.13G	
Enhanced DSCH PC Counter	M		9.2.2.13E	
Enhanced DSCH Power Offset	M		9.2.2.13H	

9.2.2.13E Enhanced DSCH PC Counter

<u>Void</u>. The Enhanced DSCH PC Counter parameter gives the number of correct cell ID command to receive in the averaging window, *Enhance DSCH PC Wnd* IE, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC			INTEGER(1.	
Counter			.50)	

9.2.2.13F Enhanced DSCH PC Indicator

Void. The Enhanced DSCH PC Indicator indicates whether Enhanced DSCH PC is in use by the UE or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC			ENUMERAT	
Indicator			ED(Enhance	
			d DSCH PC	
			Active in the	
			UE,	
			Enhanced	
			DSCH PC	
			not Active in	
			the UE)	

9.2.2.13G Enhanced DSCH PC Wnd

<u>Void</u>. The Enhanced DSCH PC Wnd parameter shows the window size to decide primary or non-primary cell, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd			INTEGER(1.	
			.10)	

9.2.2.13H Enhanced DSCH Power Offset

<u>Void</u>. The Enhanced DSCH Power Offset parameter gives the power offset to be added on DSCH when cell is decided to be primary.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH Power Offset			INTEGER(- 150)	Unit dB, step 1 dB

9.2.2.21C Length of TFCI2

<u>Void</u>. This IE indicates the length measured in number of bits of TFCI(field 2). The length of TFCI (field 1) is set to the 10's complement of the length of TFCI(field 2).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Length of TFCI2			INTEGER(1. .10)	

9.2.2.27A PDSCH Code Mapping

<u>Void</u>. This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH. A fourth option is also provided which allows the UTRAN to replace individual entries in the TFCI(field 2) to PDSCH code mapping table with new PDSCH code values.

Method #1 Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. Each TFCI(field2) value corresponds to a given PDSCH channelisation code or set of PDSCH codes for multi code. The DRNS maps TFCI(field2) values to PDSCH codes in the following way:

- The PDSCH codes used for TFCI(field 2) = 0 are given by the SF of the Code Group 1 (i.e. first instance in PDSCH code mapping) and the code numbers between CodeNumber_θ (where CodeNumber_θ = "Start code number" of Code Group 1) and CodeNumber₀ + "multi code info" 1.
- This continues with unit increments in the value of TFCI (Field2) mapped to either unit increments in code numbers or groups of contiguous code numbers in case of multi-code, this until "Stop code number" is reached: So the PDSCH codes used for TFCI(field 2) = k (for k > 0 and k < ("Stop code number" "Start code number"+

 DIV k) are given by the SF of the Code Group 1 and the code numbers between CodeNumber_k=
 CodeNumber_{k-1} + "multi-code info" and CodeNumber_k + "multi-code info" 1.
 - If "Stop code number" = "Start code number" + "multi code info" 1 then this is to be interpreted as defining the mapping between the channelisation code(s) and a single TFCI.
- The DRNS constructs its mapping table by repeating this process for all the Code Groups in the order they are instantiated in *PDSCH code mapping*. The first TFCI(field 2) value used in each group is the largest TFCI(field 2) value reached in the previous group incremented by one.

Note: This imposes that "Stop code number" --- "Start code number" + 1 is a multiple of the value "multi-code info" for each instance of *PDSCH code mapping*. Furthermore, in the case in which multi-code is not used, then "multi-code info" = 1 and the process above also applies.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code or set of PDSCH codes for multi code.

- The set of PDSCH codes specified in the first instance applies for all values of TFCI(field 2) between 0 and the specified "Max TFCI(field2)".
- The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous instance incremented by one.
 - So the set of PDSCH codes specified in a given instance apply for all the values of TFCI(field 2) between the "Max TFCI(field2) value" specified in the previous instance incremented by one and the specified "Max TFCI(field2)" of the considered instance.

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "multicode" – 1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #3 Explicit

The mapping between TFCI (field 2) value and PDSCH channelisation code (or a set of PDSCH codes for multicode) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "multicode" 1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #4 Replace

The "TFCI (field2)" value(s) for which the mapping to PDSCH channelisation code (or a set of PDSCH codes for multicode) is changed are explicitly signalled. Furthermore, the new mapping between TFCI(field 2) value and PDSCH channelisation code(s) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "multicode" 1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code	M		9.2.2.1 1	

hoice Signalling Method →Code Range	M			
>>PDSCH Code Mapping		1<maxno< del=""></maxno<>		
>>ғызып соце марріну		CodeGrou		
>>>Spreading Factor	M	ps>	INTEGER	
>>>Spreading Factor	114		(4, 8, 16, 32, 64, 128,	
>>>Multi-code Info	M		256) INTEGER(1. .16)	
>>>Start Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	PDSCH code start, Numberi as described in [16]
>>>Stop Code Number	M		INTEGER(0. -maxCodeNu mComp-1)	PDSCH code stop, Numberi as described in [16]
			meomp-1)	
>TFCI Range				
>>DSCH Mapping		1 <maxno TFCIGroup s></maxno 		
>>>Max TFCI(field2) Value	₩		INTEGER(1. .1023)	This is the maximum value in the range of TFCI(field 2) values for which the specifie PDSCH code applies
>>Spreading Factor	M		HNTEGER (4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>Multi-code Info	м		INTEGER(1. .16)	
>>>Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	Code number of PDSCH cod Numbering as described in [16]
≻Explicit				
>>PDSCH Code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		The first instance of the parameter PDSCH code corresponds to TFCI (field2) 0, the second to TFCI(field 2 = 1 and so on.
>>>Spreading Factor	M		HNTEGER (4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>Multi-code Info	M		INTEGER(1. .16)	
>>>Code Number	M		INTEGER(0. .maxCodeNu mComp-1)	Code number of PDSCH country Numbering as described in [16]
>Replace				
Replaced PDSCH code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		
>>>TFCI (field2)	M		INTEGER(1. .1023)	Value of TFCI(field 2) for which PDSCH code mappin will be changed
>>Spreading Factor	₩		HNTEGER (4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>Multi-code Info	М		INTÉGER(1. .16)	
>>>Code Number	М		INTEGER(0. .maxCodeNu mComp-1)	Code number of PDSCH cor Numbering as described in [16]

Range Bound	Explanation
maxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)
maxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.
maxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

9.2.2.39a Split Type

<u>Void.</u>This parameter indicates if the "Hard" or "Logical" is used for the TFCI split mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Split Type			ENUMERAT ED(Hard, Logical)	"Hard" : meaning that TFC (field 1) and TFCI (field 2) ar each 5 bits long and eac field is block code separately. "Logical" : meaning that o the physical layer TFCI (fiel 1) and TFCI (field 2) ar concatenated, field 1 takin the most significant bits an field 2 taking the lead significant bits). The whole then encoded with a singl block code.

9.2.2.40A SSDT Cell Identity for EDSCHPC

Void. The SSDT Cell Identity for EDSCHPC is a temporary ID for enhanced DSCH power control assigned to a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Cell Identity for			SSDT Cell	
EDSCHPC			Identity	
			9.2.2.40	

9.2.2.46 TFCI Signalling Mode

This parameter indicates has only one value with any meaning if the normal or split mode is used for the TFCI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Signalling Mode			ENUMERAT ED(Normal, <u>Not</u> <u>Used</u> Split)	The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.

9.2.2.46A TFCI PC Support Indicator

<u>Void</u>. The TFCI PC Support Indicator indicates whether the TFCI power control in the DSCH hard split mode can be applied to DL DPCH in the cell or not. TFCI PC Mode 1 means that the only one power offset(TFCI PO[4]) is applied in TFCI power control. TFCI PC Mode 2 means that the cell also supports enhanced DSCH power control and two power offset(TFCI PO_primary[4]) are applied in TFCI power control.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
TFCI PC Support Indicator			ENUMERAT	
			ED(TFCI PC	
			Mode 1	
			Supported,	
			TECI PC	
			Mode 2	
			Supported)	

9.2.2.50A UE Support Of Dedicated Pilots For Channel Estimation

The UE Support Of Dedicated Pilots For Channel Estimation IE indicates whether the UE supports dedicated pilots for channel estimation or not for DCH-or DSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Support Of Dedicated			ENUMERATED	
Pilots For Channel			(Dedicated	
Estimation			pilots for	
			channel	
			estimation	
			supported)	

9.2.3.3 DPCH ID

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

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

9.2.3.x1 DSCH ID

The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

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

9.2.3.x2 DSCH Initial Window Size

Indicates the initial number of MAC-c/sh SDUs that may be transmitted before new credits are received from the DRNC.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
DSCH Initial Window Size			<u>INTEGER</u> (1255)	Number of MAC-c/sh SDUs: 255 = Unlimited number of MAC-c/sh SDUs.

9.2.3.x3 DSCH Flow Control Information

The DSCH Flow Control Information IE provides flow control information for each scheduling priority class for the DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	<u>Criticality</u>	Assigned Criticality
DSCH Flow Control Information		<u>116</u>			Ξ	
>DSCH Scheduling Priority	M		Scheduling Priority Indicator 9.2.1.51A		=	
>MAC-c/sh SDU Length		<u>1<maxnb< u=""> <u>MAC-</u> <u>c/shSDUL</u> <u>ength></u></maxnb<></u>			=	
>>MAC-c/sh SDU Length	M		9.2.1.34		_	
>DSCH Initial Window Size	0		<u>9.2.<mark>3.x2</mark></u>		<u>YES</u>	ignore

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

9.2.3.x4 DSCH-RNTI

DSCH-RNTI is the UE identifier allocated by DRNS to be used over the radio interface by UEs having one or several DSCHs and/or USCHs. It is unique within a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH-RNTI			<u>INTEGER(0.</u> .65535)	

9.2.3.3a DSCH TDD Information

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <maxno ofDSCHs></maxno 			-	
>DSCH ID	М		9.2. <u>3.x1</u> 4.2 6A		-	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	-	
>TrCH Source Statistics Descriptor	М		9.2.1.65		-	
>Transport Format Set	Μ		9.2.1.64		_	
>Allocation/Retention Priority	Μ		9.2.1.1		_	
>Scheduling Priority Indicator	М		9.2.1.51A		-	
>BLER	Μ		9.2.1.4		_	
>Traffic Class	Μ		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.

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

_ _

IMPORTS

```
Active-Pattern-Sequence-Information,
Active-MBMS-Bearer-Service-ListFDD,
Active-MBMS-Bearer-Service-ListTDD,
AllocationRetentionPriority,
AllowedQueuingTime,
Allowed-Rate-Information,
AlphaValue,
AntennaColocationIndicator,
BLER,
SCTD-Indicator,
BindingID,
C-ID,
C-RNTI,
CCTrCH-ID,
CFN,
CGI,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
CNDomainType,
Cause,
CellCapabilityContainer-FDD,
CellCapabilityContainer-TDD,
CellCapabilityContainer-TDD-LCR,
CellParameterID,
CellPortionID,
```

ChipOffset, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonTransportChannelResourcesInitialisationNotRequired, CongestionCause, CoverageIndicator, CriticalityDiagnostics, D-RNTI, D-RNTI-ReleaseIndication, DCH-FDD-Information, DCH-ID. DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DL-PowerBalancing-UpdatedIndicator, DL-ReferencePowerInformation, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DL-DPCH-TimingAdjustment, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, DSCH-RNTI, Data-Description-IndicatorList, EDCH-FDD-Information, EDCH-FDD-InformationResponse, EDCH-FDD-Information-To-Modify, EDCH-FDD-DL-ControlChannelInformation, EDCH-DDI-Value,

EDCH-MACdFlow-ID, EDCH-MACdFlow-Specific-InfoList, EDCH-MACdFlows-To-Delete, EDCH-Physical-Layer-Category, EDCH-RL-Indication. EDPCH-Information-FDD, E-RNTI, E-TFCS, E-TTI, SchedulingPriorityIndicator, EnhancedDSCHPC, -EnhancedDSCHPCCounter, EnhancedDSCHPCWnd Enhanced-PrimaryCPICH-EcNo, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes, 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-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, HS-SICH-ID, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, Initial-DL-DPCH-TimingAdjustment-Allowed, InnerLoopDLPCStatus, L3-Information, SplitType, -LengthOfTFCI2,

LimitedPowerIncrease, MaximumAllowedULTxPower. MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrOfUL-DPCHs. MaxNrTimeslots, MaxNrULPhysicalchannels, MACes-Guaranteed-Bitrate, MaxNr-Retransmissions-EDCH, MaxNrUL-EDPDCHs, MinULChannelisationCodeLength-EDCH-FDD, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MBMS-Bearer-Service-List, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NeighbouringTDDCellMeasurementInformationLCR, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PartialReportingIndicator, -PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, Phase-Reference-Update-Indicator, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, Primary-CPICH-Usage-For-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, PunctureLimit, QE-Selector, Oth-Parameter, RANAP-RelocationInformation, RB-Info, RL-ID, RL-Set-ID,

RL-Specific-EDCH-Information, RNC-ID. RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RL-Specific-DCH-Info, RxTimingDeviationForTA, S-FieldLength, S-RNTI, S-RNTI-Group, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-CPICH-Information, Secondary-CPICH-Information-Change, Secondary-LCR-CCPCH-Info-TDD, SNA-Information, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, Support-8PSK, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot,

TimeSlotLCR,

TimingAdvanceApplied, TMGI. TnlOos. TOAWE, TOAWS, TraceDepth, TraceRecordingSessionReference, TraceReference, TrafficClass. TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransmissionMode, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr. TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UEIdentity, UEMeasurementType, UEMeasurementTimeslotInfoHCR, UEMeasurementTimeslotInfoLCR, UEMeasurementReportCharacteristics, UEMeasurementParameterModAllow, UEMeasurementValueInformation, UE-State, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH, UL-DPCCH-SlotFormat, UL-DPDCHIndicatorEDCH, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, MAChs-ResetIndicator, UL-TimingAdvanceCtrl-LCR, TDD-TPC-UplinkStepSize-LCR,

PrimaryCCPCH-RSCP-Delta FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfInterfaces, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLSets-1, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxResetContext, maxResetContextGroup, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, maxNrOfMACdFlows, maxNrOfHSSICHs, maxNrOfActiveMBMSServices, maxNrOfMBMSServices, maxNrOfUEs, maxNrofDDIs, maxNrofSigSeqERGHICH-1,

id-Active-MBMS-Bearer-ServiceFDD, id-Active-MBMS-Bearer-ServiceTDD, id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AffectedUEInformationForMBMS. id-AllowedOueuingTime. id-AntennaColocationIndicator, id-BindingID, id-C-ID, id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CellCapabilityContainer-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-CellPortionID, id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonTransportChannelResourcesInitialisationNotRequired, id-CongestionCause, id-CoverageIndicator, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,

id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD. id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD. id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRqstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD. id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRqstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-DPCH-TimingAdjustment, id-DL-DPCH-Power-Information-RL-ReconfPrepFDD, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, id-DL-PowerBalancing-UpdatedIndicator, id-DL-ReferencePowerInformation, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rast, id-DL-ReferencePowerInformation-DL-PC-Rqst, id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Fail, id-DedicatedMeasurementObjectType-DM-Fail-Ind, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DelayedActivation, id-DelayedActivationList-RL-ActivationCmdFDD, id-DelayedActivationList-RL-ActivationCmdTDD, id-DelayedActivationInformation-RL-ActivationCmdFDD, id-DelayedActivationInformation-RL-ActivationCmdTDD, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DRNC-ID, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-InformationListIE-RL-AdditionRspTDD,

id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information. id-DSCH-FDD-InformationResponse. id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCH-RNTI, id DSCHsToBeAddedOrModified FDD. id-DSCHToBeAddedOrModifiedList-RL-ReconfReadvTDD, id-EDPCH-Information, id-EDCH-RL-Indication, id-EDCH-FDD-Information, id-Serving-EDCHRL-Id, id-EDCH-FDD-DL-ControlChannelInformation, id-EDCH-FDD-InformationResponse, id-EDCH-MACdFlows-To-Add, id-EDCH-FDD-Information-To-Modify, id-EDCH-MACdFlows-To-Delete, id-EDPCH-Information-RLReconfRequest-FDD, id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd, id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd, -id-EnhancedDSCHPC, -id-EnhancedDSCHPCIndicator, id-Enhanced-PrimaryCPICH-EcNo, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-F-DPCH-Information-RL-ReconfPrepFDD, id-F-DPCH-Information-RL-SetupRqstFDD, id-GA-Cell, id-GA-CellAdditionalShapes, id-GSM-Cell-InfEx-Rqst, id-HCS-Prio, id-HSDSCH-FDD-Information, id-HSDSCH-FDD-Information-Response, id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised, id-HSDSCH-MACdFlows-to-Add, id-HSDSCH-MACdFlows-to-Delete, id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-HSDSCH-RNTI, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD, id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD, id-HSSICH-Info-DM-Rprt, id-HSSICH-Info-DM-Rgst, id-HSSICH-Info-DM, id-IMSI,

id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-Initial-DL-DPCH-TimingAdjustment, id-Initial-DL-DPCH-TimingAdjustment-Allowed, id-InnerLoopDLPCStatus, id-InterfacesToTraceItem, -id-SplitType, -id-LengthOfTFCI2, id-L3-Information, id-AdjustmentPeriod, id-ListOfInterfacesToTrace, id-MaxAdjustmentStep, id-MBMS-Bearer-Service-List, id-MBMS-Bearer-Service-List-InfEx-Rsp, id-MeasurementFilterCoefficient, id-MeasurementID, id-MeasurementRecoveryBehavior, id-MeasurementRecoveryReportingIndicator, id-MeasurementRecoverySupportIndicator, id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD, id-NACC-Related-Data, id-Old-URA-ID. id-PagingArea-PagingRgst, id-PartialReportingIndicator, id-PDSCH-RL-ID, id-Permanent-NAS-UE-Identity, id-Phase-Reference-Update-Indicator, id-FACH-FlowControlInformation, id-PowerAdjustmentType, id-PrimCCPCH-RSCP-DL-PC-RqstTDD, id-Primary-CPICH-Usage-For-Channel-Estimation, id-PropagationDelay, id-Oth-Parameter, id-RANAP-RelocationInformation, id-ResetIndicator, id-EDCH-RLSet-Id, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRqstTDD, id-RL-Information-RL-AdditionRqstFDD, id-RL-Information-RL-AdditionRqstTDD, id-RL-Information-RL-DeletionRgst, id-RL-Information-RL-FailureInd, id-RL-Information-RL-ReconfPrepFDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-RestoreInd, id-RL-Information-RL-SetupRqstFDD, id-RL-Information-RL-SetupRqstTDD, id-RL-InformationItem-RL-CongestInd, id-RL-InformationItem-DM-Rprt,

id-RL-InformationItem-DM-Rqst, id-RL-InformationItem-DM-Rsp. id-RL-InformationItem-RL-PreemptRequiredInd. id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD. id-RL-InformationResponseItem-RL-ReconfReadyFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadvFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ParameterUpdateIndicationFDD-RL-Information-Item, id-RL-ParameterUpdateIndicationFDD-RL-InformationList, id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-ReconfigurationReguestFDD-RL-InformationList, id-RL-ReconfigurationRequestFDD-RL-Information-IEs. id-RL-ReconfigurationReguestTDD-RL-Information, id-RL-ReconfigurationResponseTDD-RL-Information, id-RL-Specific-DCH-Info, id-RL-Specific-EDCH-Information, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rgst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-RL-Set-Successful-InformationItem-DM-Fail, id-RL-Set-Unsuccessful-InformationItem-DM-Fail, id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind, id-RL-Successful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail-Ind, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RNC-ID, id-RxTimingDeviationForTA, id-S-RNTI, id-SAI, id-Secondary-CPICH-Information, id-Secondary-CPICH-Information-Change, id-SFN, id-SFNReportingIndicator,

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id-SNA-Information,
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id-SRNC-ID, id-STTD-SupportIndicator. id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-TDD-maxNrDLPhysicalchannels, id-TDD-Support-8PSK, id-timeSlot-ISCP, id-TimeSlot-RL-SetupRspTDD, id-TMGI, id-TnlOos, id-TraceDepth. id-TraceRecordingSessionReference, id-TraceReference. id-TransmissionMode. id-TransportBearerID, id-TransportBearerRequestIndicator, id-TransportLaverAddress, id-UC-ID, id-ContextInfoItem-Reset, id-ContextGroupInfoItem-Reset, id-Transmission-Gap-Pattern-Sequence-Information, id-UEIdentity. id-UEMeasurementType, id-UEMeasurementTimeslotInfoHCR. id-UEMeasurementTimeslotInfoLCR, id-UEMeasurementReportCharacteristics, id-UEMeasurementParameterModAllow, id-UEMeasurementValueInformation, id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation, id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH, id-UE-State, id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRgstFDD, id-UL-DPDCHIndicatorEDCH,

id-UL-DPCH-InformationItem-PhyChReconfRqstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD. id-UL-DPCH-InformationItem-RL-SetupRspTDD. id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD. id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRgstTDD, id-UL-SIRTarget, id-URA-ID, id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD. id-USCHs-to-Add. id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD, id-TSTD-Support-Indicator-RL-SetupRgstTDD, id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD, id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD, id-neighbouringTDDCellMeasurementInformationLCR, id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD, id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD, id-TrafficClass, id-UL-Synchronisation-Parameters-LCR,

id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-MAChs-ResetIndicator. id-UL-TimingAdvanceCtrl-LCR, id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD, id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD, id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-DL-CCTrCH-InformationList-RL-ReconfRspTDD, id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationItem-RL-AdditionRqstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD, id-PrimaryCCPCH-RSCP-Delta

FROM RNSAP-Constants;

```
-- RADIO LINK SETUP REQUEST FDD
_ _
   RadioLinkSetupRequestFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupRequestFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}
                                                                                                                   OPTIONAL.
}
RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-SRNC-ID
                                 CRITICALITY reject TYPE RNC-ID
                                                                                   PRESENCE mandatory }
     ID id-S-RNTI
                                  CRITICALITY reject TYPE S-RNTI
                                                                                   PRESENCE mandatory }
     ID id-D-RNTI
                                  CRITICALITY reject TYPE D-RNTI
                                                                               PRESENCE optional } |
                                     CRITICALITY reject TYPE AllowedQueuingTime
                                                                                           PRESENCE optional
     ID id-AllowedOueuingTime
     ID id-UL-DPCH-Information-RL-SetupRgstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRgstFDD
                                                                                                           PRESENCE mandatory }
     ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
                                                                                                           PRESENCE optional }
     ID id-DCH-FDD-Information
                                  CRITICALITY reject TYPE DCH-FDD-Information
                                                                                   PRESENCE mandatory }
    FID id DSCH FDD Information CRITICALITY reject TYPE DSCH FDD Information
                                                                                  PRESENCE optional
                                                                                                          \rightarrow
     ID id-RL-Information-RL-SetupRqstFDD
                                             CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD
                                                                                                           PRESENCE mandatory }|
    { ID id-Transmission-Gap-Pattern-Sequence-Information
                                                            CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
                                                                                                                                  PRESENCE
    optional }
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    . . .
}
UL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
    ul-ScramblingCode
                                  UL-ScramblingCode,
   minUL-ChannelisationCodeLength
                                         MinUL-ChannelisationCodeLength,
   maxNrOfUL-DPCHs
                                  MaxNrOfUL-DPCHs
                                                        OPTIONAL
    -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 -- ,
   ul-PunctureLimit
                                  PunctureLimit,
   ul-TFCS
                                  TFCS,
   ul-DPCCH-SlotFormat
                                  UL-DPCCH-SlotFormat,
    ul-SIRTarget
                                  UL-SIR
                                                 OPTIONAL,
   diversityMode
                                  DiversityMode,
    sSDT-CellIdLength
                                  SSDT-CellID-Length
                                                         OPTIONAL,
    s-FieldLength
                                  S-FieldLength
                                                         OPTIONAL,
                                  ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
                                                                                       PRESENCE optional }|
     ID id-DPC-Mode
                                  CRITICALITY reject
                                                        EXTENSION DPC-Mode
    { ID id-UL-DPDCHINDicatorEDCH CRITICALITY reject
                                                        EXTENSION UL-DPDCHIndicatorEDCH PRESENCE conditional },
    -- This IE shall be present if E-DPCH Information IE is present.
    . . .
DL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
    tFCS
                                  TFCS,
```

```
dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes.
    tFCI-SignallingMode
                                    TFCI-SignallingMode.
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is equal to any of the values from 12 to 16 --,
    multiplexingPosition
                                        MultiplexingPosition,
    powerOffsetInformation
                                        PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id SplitType CRITICALITY reject EXTENSION SplitType PRESENCE optional
    {
    ID id-LengthOfTFCI2 CRITICALITY reject EXTENSION LengthOfTFCI2 PRESENCE optional },

    . . .
}
PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE
        pol-ForTFCI-Bits
                                        PowerOffset,
                                        PowerOffset,
       po2-ForTPC-Bits
       po3-ForPilotBits
                                        PowerOffset.
       iE-Extensions
                                        ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
        . . .
}
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-InformationList-RL-SetupRqstFDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-InformationItemIEs-RL-
SetupRqstFDD } }
RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD
                                                                                                                 PRESENCE mandatory
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    C-TD
                                    C-TD.
    firstRLS-indicator
                                    FirstRLS-Indicator,
    frameOffset
                                    FrameOffset,
    chipOffset
                                    ChipOffset,
    propagationDelay
                                    PropagationDelay
                                                            OPTIONAL,
    diversityControlField
                                    DiversityControlField
                                                                OPTIONAL
    -- This IE shall be present if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power
                                    DL-Power
                                                        OPTIONAL,
    primaryCPICH-EcNo
                                    PrimaryCPICH-EcNo
                                                                OPTIONAL,
    sSDT-CellID
                                    SSDT-CellID
                                                        OPTIONAL,
    transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                     OPTIONAL,
    -- This IE shall be present unless Diversity Mode IE in UL DPCH Information group is "none"
```

```
ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationItem-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-CellID
                                                                                                  PRESENCE conditional }|
      This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Information IE.
      ID id-Enhanced-PrimaryCPICH-ECNO CRITICALITY ignore EXTENSION Enhanced-PrimaryCPICH-ECNO PRESENCE optional
     ID id-RL-Specific-DCH-Info
                                        CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                  PRESENCE optional }
     ID id-DelayedActivation
                                        CRITICALITY reject EXTENSION DelayedActivation
                                                                                                  PRESENCE optional
     ID id-Qth-Parameter
                                        CRITICALITY ignore EXTENSION Qth-Parameter
                                                                                                  PRESENCE optional }
     ID id-CellPortionID
                                        CRITICALITY ignore EXTENSION CellPortionID
                                                                                                  PRESENCE optional }
     ID id-RL-Specific-EDCH-Information
                                                    CRITICALITY reject
                                                                            EXTENSION RL-Specific-EDCH-Information
                                                                                                                         PRESENCE optional }|
     ID id-EDCH-RL-Indication
                                                    CRITICALITY reject
                                                                            EXTENSION EDCH-RL-Indication
                                                                                                                         PRESENCE optional },
    . . .
RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Permanent-NAS-UE-Identity
                                                        CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity
                                                                                                                               PRESENCE optional }|
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-Information
     ID id-DL-PowerBalancing-Information
                                                                                                                               PRESENCE optional }
     ID id-HSDSCH-FDD-Information
                                                       CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                               PRESENCE optional }|
     ID id-HSPDSCH-RL-ID
                                                        CRITICALITY reject EXTENSION RL-ID
                                                                                                                               PRESENCE conditional
}|
    -- This IE shall be present if HS-DSCH Information IE is present.
    { ID id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation
                                                                                                    EXTENSION UE-Support-Of-Dedicated-Pilots-For-
                                                                                CRITICALITY ignore
Channel-Estimation
                                    PRESENCE optional }|
    { ID id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH
                                                                                CRITICALITY ignore EXTENSION UE-Support-Of-Dedicated-Pilots-For-
Channel-Estimation-Of-HS-DSCH
                                    PRESENCE optional }|
     ID id-MBMS-Bearer-Service-List
                                                    CRITICALITY notify EXTENSION MBMS-Bearer-Service-List
                                                                                                                         PRESENCE optional }
     ID id-EDPCH-Information
                                                    CRITICALITY reject
                                                                            EXTENSION EDPCH-Information-FDD
                                                                                                                         PRESENCE optional }
     ID id-EDCH-FDD-Information
                                                    CRITICALITY reject
                                                                            EXTENSION EDCH-FDD-Information
                                                                                                                         PRESENCE optional }
    { ID id-Serving-EDCHRL-Id
                                                                                                                         PRESENCE conditional }|
                                                    CRITICALITY reject
                                                                            EXTENSION RL-ID
    -- This IE is present if RL Specific E-DCHInformation IE is present.
     ID id-F-DPCH-Information-RL-SetupRqstFDD
                                                    CRITICALITY reject EXTENSION F-DPCH-Information-RL-SetupRqstFDD
                                                                                                                         PRESENCE optional }
    { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed
                                                        CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed PRESENCE optional },
F-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    powerOffsetInformation
                                    PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
                                    ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
F-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE {
```

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 po2-ForTPC-Bits
 PowerOffset,

 iE-Extensions
 ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,

 ...

PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

} ...

}

UNCHANGED TEXT IS REMOVED

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-- RADIO LINK SETUP RESPONSE FDD _ _ **** RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} OPTIONAL, RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE optional } | ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-InformationResponseList-RL-SetupRspFDD RL-SetupRspFDD } } RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory } RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE { rL-TD RL-ID, rL-Set-TD RL-Set-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, GA-AccessPointPosition qA-AccessPointPosition OPTIONAL, received-total-wide-band-power Received-total-wide-band-power, Secondary-CCPCH-Info secondary-CCPCH-Info OPTIONAL, dl-CodeInformation FDD-DL-CodeInformation, diversityIndication DiversityIndication-RL-SetupRspFDD, sSDT-SupportIndicator SSDT-SupportIndicator, maxUL-SIR UL-SIR, minUL-SIR UL-SIR, closedlooptimingadjustmentmode Closedlooptimingadjustmentmode OPTIONAL, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, PrimaryScramblingCode primaryScramblingCode OPTIONAL, uL-UARFCN UARFCN OPTIONAL, dL-UARFCN UARFCN OPTIONAL, primaryCPICH-Power PrimaryCPICH-Power, not-Used-dSCHInformationResponse -NULLDSCH-InformationResponse-RL-SetupRspFDD-OPTIONAL,

```
neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation- OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation- OPTIONAL,
    pC-Preamble
                                    PC-Preamble.
    sRB-Delay
                                    SRB-Delay,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                                        CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                                                    PRESENCE optional
}|
    { ID id-DL-PowerBalancing-ActivationIndicator
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                    PRESENCE optional
      ID id TFCI PC Support Indicator
                                                        CRITICALITY ignore EXTENSION TFCI-PC SupportIndicator
                                                                                                                                    PRESENCE optional
++
      ID id-HCS-Prio
                                                         CRITICALITY ignore EXTENSION HCS-Prio
                                                                                                                                    PRESENCE optional
}|
      ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation
                                                                                                                                   PRESENCE optional
}|
     ID id-Secondary-CPICH-Information
                                                         CRITICALITY ignore EXTENSION Secondary-CPICH-Information
                                                                                                                                    PRESENCE optional
}|
    { ID id-Active-MBMS-Bearer-ServiceFDD
                                                         CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD
                                                                                                                                    PRESENCE optional
}|
     ID id-EDCH-RLSet-Id
                                                         CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                                    PRESENCE optional
}|
     ID id-EDCH-FDD-DL-ControlChannelInformation
                                                         CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
                                                                                                                                    PRESENCE optional
}|
    { ID id-Initial-DL-DPCH-TimingAdjustment
                                                         CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                                    PRESENCE optional
},
    . . .
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
                                    Combining-RL-SetupRspFDD,
    combining
    nonCombiningOrFirstRL
                                    NonCombiningOrFirstRL-RL-SetupRspFDD
}
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                         PRESENCE optional }
      ID id-EDCH-FDD-InformationResponse
                                            CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                               PRESENCE optional },
    . . .
}
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
    iE-Extensions
                                ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
```

}

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NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIE {ID id-EDCH-FDD-InformationResponse CF }		C C C C C C C C C C C C C C C C C C C	RESENCE mandatory},		
DSCH InformationResponse RL SetupRspFDD ::= Pr	otocolIE Single Containe	r {{ DSCH InformationResponseIE RL Setup	{spFDD }}		
DSCH InformationResponseIE RL SetupRspFDD RNSF — { ID id-DSCH-FDD-InformationResponse CRI }	•		andatory }		
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {					
	<u> </u>	EXTENSION DSCH-RNTI			
{ ID id-HSDSCH-RNTI	CRITICALITY ignore	EXTENSION HSDSCH-RNTI	PRESENCE optional }		
{ ID id-HSDSCH-FDD-Information-Response	CRITICALITY ignore	EXTENSION HSDSCH-FDD-Information-Respon	nse PRESENCE optional },		
}					

UNCHANGED TEXT IS REMOVED

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-- RADIO LINK SETUP FAILURE FDD _ _ ***** RadioLinkSetupFailureFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupFailureFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL, . . . RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional } ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } ID id-UL-SIRTarget PRESENCE optional } CRITICALITY ignore TYPE UL-SIR ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . CauseLevel-RL-SetupFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-SetupFailureFDD, RLSpecificCauseList-RL-SetupFailureFDD, rLSpecificCause . . . GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE cause Cause, iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= . . . RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE { unsuccessful-RL-InformationRespList-RL-SetupFailureFDD UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD, successful-RL-InformationRespList-RL-SetupFailureFDD SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DSCH-RNTI CRITICALITY ignore EXTENSION DSCH-RNTI PRESENCE optional }| PRESENCE optional } ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional }, . . . }

```
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { UnsuccessfulRL-
InformationResponse-RL-SetupFailureFDD-IEs} }
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
                                                                         CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
                    PRESENCE mandatory }
SetupFailureFDD
}
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    cause
                                Cause,
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Active-MBMS-Bearer-ServiceFDD
                                                                                                                           PRESENCE optional },
                                                CRITICALITY ignore
                                                                         EXTENSION Active-MBMS-Bearer-Service-ListFDD
    . . .
}
SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-1)) OF ProtocollE-Single-Container { {SuccessfulRL-
InformationResponse-RL-SetupFailureFDD-IEs}
SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD
                                                                     CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD
    PRESENCE mandatory
}
SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE
    rL-ID
                                            RL-ID,
    rL-Set-TD
                                            RL-Set-ID,
    uRA-Information
                                            URA-Information
                                                                                 OPTIONAL,
                                            SAI,
    sAI
    gA-Cell
                                            GA-Cell
                                                        OPTIONAL
    qA-AccessPointPosition
                                            GA-AccessPointPosition
                                                                                 OPTIONAL,
    received-total-wide-band-power
                                                                     -Received-total-wide-band-power,
    secondary-CCPCH-Info
                                            Secondary-CCPCH-Info
                                                                                 OPTIONAL,
    dl-CodeInformation
                                            FDD-DL-CodeInformation,
    diversityIndication
                                            DiversityIndication-RL-SetupFailureFDD,
    sSDT-SupportIndicator
                                            SSDT-SupportIndicator,
    maxIIL-STR
                                            UL-SIR,
    minUL-SIR
                                            UL-SIR,
    closedlooptimingadjustmentmode
                                            Closedlooptimingadjustmentmode
                                                                                 OPTIONAL,
    maximumAllowedULTxPower
                                            MaximumAllowedULTxPower,
    maximumDLTxPower
                                            DL-Power,
    minimumDLTxPower
                                            DL-Power,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
    primaryScramblingCode
                                            PrimaryScramblingCode
                                                                                 OPTIONAL,
    uL-UARFCN
                                                    -UARFCN
                                                                                         OPTIONAL,
                                                    -UARFCN
    dL-UARFCN
                                                                                         OPTIONAL,
    not-Used-dSCH-InformationResponse-RL-SetupFailureFDD
                                                                NULLDSCH-InformationResponseList-RL-SetupFailureFDD
                                                                                                                              OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation- OPTIONAL,
```

1

	pC-PreamblePC-PreamblesRB-DelaySRB-DelayiE-ExtensionsProtocolE		<pre>.IEs} } OPTIONAL,</pre>		
	SuccessfulRL-InformationResponse-RL-SetupFailureFDD-E { ID id-GA-CellAdditionalShapes	<pre>ktlEs RNSAP-PROTOCOL-EXTENSION ::= { CRITICALITY ignore EXTENSION GA-CellAdditionalShapes</pre>	PRESENCE optional		
	{ ID id-DL-PowerBalancing-ActivationIndicator	CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator	PRESENCE optional		
-	 [ID id TFCI PC SupportIndicator	CRITICALITY ignore EXTENSION TFCI PC SupportIndicator			
-	{ ID id-HCS-Prio	CRITICALITY ignore EXTENSION HCS-Prio	PRESENCE optional		
	<pre>{ ID id-Primary-CPICH-Usage-For-Channel-Estimation</pre>	n CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation	PRESENCE optional		
	{ ID id-Secondary-CPICH-Information	CRITICALITY ignore EXTENSION Secondary-CPICH-Information	PRESENCE optional		
	{ ID id-Active-MBMS-Bearer-ServiceFDD	CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD	PRESENCE optional		
	{ ID id-EDCH-RLSet-Id	CRITICALITY ignore EXTENSION RL-Set-ID	PRESENCE optional		
	<pre>{ ID id-EDCH-FDD-DL-ControlChannelInformation</pre>	CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation	PRESENCE optional		
	{ ID id-Initial-DL-DPCH-TimingAdjustment	CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment	PRESENCE optional		
	· · · ·				
I	DiversityIndication-RL-SetupFailureFDD ::= CHOICE { combining Combining-RL-SetupFailureFDD, nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD }				
(Combining-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, iE-Extensions ProtocolExtensionCont	ainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,			
	•••				
CombiningItem-RL-SetupFailureFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DCH-InformationResponse CRITICALITY ignore EXTENSION DCH-InformationResponse PRESENCE optional } { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse PRESENCE optional }, 					
1	<pre>> NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE { dCH-InformationResponse DCH-InformationResponse, iE-Extensions ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, }</pre>				

NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
 { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse PRESENCE optional },
 ...
}
DSCH InformationResponseList RL SetupFailureFDD ::= ProtocolIE Single Container {{ DSCH InformationResponseListIEs RL SetupFailureFDD }}
DSCH InformationResponseListIEs RL SetupFailureFDD RNSAP-PROTOCOL IES ::= {
 { ID id DSCH FDD InformationResponse CRITICALITY ignore TYPE DSCH FDD InformationResponse PRESENCE mandatory }
 }
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
 ...
 }
}

UNCHANGED TEXT IS REMOVED

```
_ _
-- RADIO LINK ADDITION RESPONSE FDD
_ _
  *****
RadioLinkAdditionResponseFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{RadioLinkAdditionResponseFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                                        OPTIONAL,
    . . .
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                         CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                               PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
}
RL-InformationResponseList-RL-AdditionRspFDD
                                                  ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-
InformationResponseItemIEs-RL-AdditionRspFDD} }
RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD
                                                             CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD
                                                                                                                                  PRESENCE
mandatory }
}
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                                  RL-ID,
   rL-Set-ID
                                  RL-Set-ID,
   uRA-Information
                                  URA-Information
                                                     OPTIONAL,
                                  SAI,
    sAI
   gA-Cell
                                  GA-Cell
                                             OPTIONAL,
   gA-AccessPointPosition
                                  GA-AccessPointPosition OPTIONAL,
    received-total-wide-band-power Received-total-wide-band-power,
    secondary-CCPCH-Info
                                  Secondary-CCPCH-Info
                                                             OPTIONAL,
   dl-CodeInformation
                                  DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication
                                  DiversityIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator
                                      SSDT-SupportIndicator,
   minUL-SIR
                                      UL-SIR,
   maxUL-SIR
                                      UL-SIR,
    closedlooptimingadjustmentmode
                                      Closedlooptimingadjustmentmode OPTIONAL,
   maximumAllowedULTxPower
                                      MaximumAllowedULTxPower,
   maximumDLTxPower
                                      DL-Power,
   minimumDLTxPower
                                      DL-Power,
    neighbouring-UMTS-CellInformation
                                      Neighbouring-UMTS-CellInformation OPTIONAL,
   neighbouring-GSM-CellInformation
                                      Neighbouring-GSM-CellInformation OPTIONAL,
   pC-Preamble
                                      PC-Preamble,
    sRB-Delay
                                      SRB-Delay,
   primaryCPICH-Power
                                      PrimaryCPICH-Power,
   iE-Extensions
                                      ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
```

```
}
```

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional }| ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional } ID id-TFCI-PC-SupportIndicator CRITICALITY ignore EXTENSION TFCI-PC-SupportIndicator PRESENCE optional }| ID id-HCS-Prio CRITICALITY ignore EXTENSION HCS-Prio PRESENCE optional }| ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation PRESENCE optional } ID id-Active-MBMS-Bearer-ServiceFDD CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD PRESENCE optional ID id-EDCH-RLSet-Id CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional ID id-EDCH-FDD-DL-ControlChannelInformation CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation PRESENCE optional ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }, . . . DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }} DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation PRESENCE mandatory } DiversityIndication-RL-AdditionRspFDD ::= CHOICE { combining Combining-RL-AdditionRspFDD, NonCombining-RL-AdditionRspFDD nonCombining } Combining-RL-AdditionRspFDD ::= SEQUENCE { rL-ID RL-ID, iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL, CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DCH-InformationResponse CRITICALITY ignore EXTENSION DCH-InformationResponse PRESENCE optional } { ID id-EDCH-FDD-InformationResponse PRESENCE optional }, CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse . . . NonCombining-RL-AdditionRspFDD ::= SEQUENCE dCH-InformationResponse DCH-InformationResponse, iE-Extensions ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL, . . . } NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse PRESENCE optional }, . . . RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . .

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_ _ -- RADIO LINK ADDITION FAILURE FDD _ _ ***** RadioLinkAdditionFailureFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkAdditionFailureFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}} OPTIONAL, . . . } RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-CauseLevel-RL-AdditionFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureFDD PRESENCE mandatory } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . CauseLevel-RL-AdditionFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-AdditionFailureFDD, RLSpecificCauseList-RL-AdditionFailureFDD, rLSpecificCause . . . GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE { cause Cause, iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL, . . . } GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE { unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD, successful-RL-InformationRespList-RL-AdditionFailureFDD SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL, ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . } RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { { UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs } } UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD PRESENCE mandatory } }

```
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID.
    cause
                                    Cause.
    iE-Extensions
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                                                                                           PRESENCE optional },
    { ID id-Active-MBMS-Bearer-ServiceFDD
                                                CRITICALITY ignore
                                                                         EXTENSION Active-MBMS-Bearer-Service-ListFDD
    . . .
}
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocollE-Single-Container { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs} }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                         CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                        PRESENCE mandatory }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-TD
                                        RL-ID,
    rL-Set-ID
                                        RL-Set-ID.
    uRA-Information
                                        URA-Information
                                                             OPTIONAL,
    sAI
                                        SAI.
                                        GA-Cell
                                                    OPTIONAL,
    qA-Cell
    qA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL.
    received-total-wide-band-power
                                        Received-total-wide-band-power,
    secondary-CCPCH-Info
                                        Secondary-CCPCH-Info
                                                                     OPTIONAL,
    dl-CodeInformation
                                        DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication
                                        DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
    minUL-SIR
                                        UL-SIR,
    maxUL-SIR
                                        UL-SIR,
    closedlooptimingadjustmentmode
                                        Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    pC-Preamble
                                        PC-Preamble,
    sRB-Delay
                                        SRB-Delay,
    iE-Extensions
                                        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } OPTIONAL,
    . . .
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-GA-CellAdditionalShapes
                                                        CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                                                    PRESENCE optional
```

} |

```
{ ID id-DL-PowerBalancing-ActivationIndicator
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                   PRESENCE optional
}|
      ID id-TFCI-PC-SupportIndicator
                                                        CRITICALITY ignore EXTENSION TECI-PC-SupportIndicator
                                                                                                                                   PRESENCE optional
#
      ID id-HCS-Prio
                                                        CRITICALITY ignore EXTENSION HCS-Prio
                                                                                                                                 PRESENCE optional }|
      ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation PRESENCE optional
} |
      ID id-Active-MBMS-Bearer-ServiceFDD
                                                        CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD
                                                                                                                                 PRESENCE optional }
      ID id-EDCH-RLSet-Id
                                                        CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                                PRESENCE optional }
      ID id-EDCH-FDD-DL-ControlChannelInformation
                                                        CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
                                                                                                                                 PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                                                                                                PRESENCE optional },
                                                        CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
    . . .
}
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}
DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory }
}
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionFailureFDD,
    nonCombining
                                    NonCombining-RL-AdditionFailureFDD
}
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
}
CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
     ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                        PRESENCE optional }
    { ID id-EDCH-FDD-InformationResponse
                                            CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                              PRESENCE optional },
    . . .
}
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
    iE-Extensions
                                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                              PRESENCE optional },
    . . .
}
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UNCHANGED TEXT IS REMOVED
```

```
3GPP TS 25.423 v6.5.0 (2005-03)
```

```
-- RADIO LINK RECONFIGURATION PREPARE FDD
    ****
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkReconfigurationPrepareFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
                                                                                                                           OPTIONAL,
RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                     CRITICALITY reject TYPE AllowedQueuingTime
                                                                                          PRESENCE optional }
     ID id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                        CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                        PRESENCE optional
     ID id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                        CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                        PRESENCE optional }
     ID id-FDD-DCHs-to-Modify
                                 CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                               PRESENCE optional
     ID id-DCHs-to-Add-FDD
                              CRITICALITY reject TYPE DCH-FDD-Information
                                                                               PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfPrepFDD
                                             CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD
                                                                                                       PRESENCE optional } |
    ID id DSCH Modify RL ReconfPrepFDD CRITICALITY reject TYPE DSCH Modify RL ReconfPrepFDD
                                                                                                 PRESENCE optional } +
  - ID id-DSCHs-to-Add-FDD
                                   CRITICALITY reject TYPE DSCH FDD Information
                                                                                        PRESENCE optional } |
    { ID id DSCH Delete RL ReconfPrepFDD CRITICALITY reject TYPE DSCH Delete RL ReconfPrepFDD PRESENCE optional } |
     ID id-RL-InformationList-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD PRESENCE optional }
     ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional
},
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   ul-ScramblingCode
                                  UL-ScramblingCode
                                                        OPTIONAL,
   ul-SIRTarget
                                  UL-SIR
                                                        OPTIONAL,
   minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
   maxNrOfUL-DPDCHs
                                  MaxNrOfUL-DPCHs
                                                        OPTIONAL
   -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 --,
   ul-PunctureLimit
                                  PunctureLimit
                                                        OPTIONAL,
                                  TFCS
   tFCS
                                        OPTIONAL,
   ul-DPCCH-SlotFormat
                                  UL-DPCCH-SlotFormat
                                                        OPTIONAL,
   diversityMode
                                  DiversityMode
                                                        OPTIONAL,
                                                        OPTIONAL,
   sSDT-CellIDLength
                                  SSDT-CellID-Length
   s-FieldLength
                                  S-FieldLength
                                                        OPTIONAL,
                                  ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
   { ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject
                                                        EXTENSION UL-DPDCHINDICATOREDCH PRESENCE conditional },
   -- This IE shall be present if E-DPCH Information IE is present.
   . . .
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   tFCS
                                  TFCS
                                         OPTIONAL,
   dl-DPCH-SlotFormat
                                  DL-DPCH-SlotFormat
                                                        OPTIONAL,
```

nrOfDLchannelisationcodes

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```
tFCI-SignallingMode
                                    TFCI-SignallingMode
                                                            OPTIONAL.
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is from 12 to 16 --,
    multiplexingPosition
                                    MultiplexingPosition
                                                                OPTIONAL.
   limitedPowerIncrease
                                    LimitedPowerIncrease
                                                                OPTIONAL,
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                                                                                                   PRESENCE optional
    { ID id-SplitType
                                                        CRITICALITY reject EXTENSION SplitType
      ID id LengthOfTFCI2
                                                       CRITICALITY reject EXTENSION LengthOfTFC12
                                                                                                                                   PRESENCE optional
      ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD CRITICALITY reject EXTENSION DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE optional
DL-DPCH-Power-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    powerOffsetInformation
                                            PowerOffsetInformation-RL-ReconfPrepFDD,
    fdd-TPC-DownlinkStepSize
                                            FDD-TPC-DownlinkStepSize,
    innerLoopDLPCStatus
                                            InnerLoopDLPCStatus,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                            PowerOffset,
   pO2-ForTPC-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset,
    iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                          ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteList-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
}
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

NrOfDLchannelisationcodes OPTIONAL,

. . .

} DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE { dSCH-Information DSCH-ModifyInfo-RL-ReconfPrepFDD OPTIONAL, RL-ID OPTIONAL, -tFCS-TFCS OPTIONAL, -iE-Extensions ProtocolExtensionContainer { {DSCH Modify RL ReconfPrepFDD ExtIEs} } OPTIONAL, + DSCH-Modify-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id EnhancedDSCHPCIndicator CRITICALITY ignore EXTENSION EnhancedDSCHPCIndicator PRESENCE optional}} CRITICALITY ignore EXTENSION EnhancedDSCHPC PRESENCE conditional). - The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC Active in the UE". + DSCH ModifyInfo RL ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH ModifyInformationItem RL ReconfPrepFDD DSCH ModifyInformationItem RL ReconfPrepFDD ::= SEQUENCE { dSCH-ID-DSCH-ID, trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL, transportFormatSet TransportFormatSet OPTIONAL. allocationRetentionPriority AllocationRetentionPriority OPTIONAL, schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL, BLER ht.ER OPTIONAL, transportBearerRequestIndicator TransportBearerRequestIndicator, ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL, . . . + DSCH ModifyInformationItem RL ReconfPrepFDD ExtIEs RNSAP PROTOCOL EXTENSION ::= { ID id-TrafficClass CRITICALITY ignore EXTENSION TrafficClass PRESENCE optional }| ID id-BindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional }| Shall be ignored if bearer establishment with ALCAP. { ID id TransportLayerAddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE - optional }, Shall be ignored if bearer establishment with ALCAP. . . . } DSCH Delete RL ReconfPrepFDD ::= SEQUENCE { -DSCH-Info Delete RL ReconfPrepFDD, ProtocolExtensionContainer { {DSCH Delete RL ReconfPrepFDD ExtIEs} } OPTIONAL, . . . } DSCH Delete RL ReconfPrepFDD Extles RNSAP PROTOCOL EXTENSION ::= { } DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-DeleteInformationItem-RL-REconfPrepFDD

```
DSCH-DeleteInformationItem-RL-REconfPrepFDD ::= SEQUENCE {
  dsch to
                                      DSCH TD
ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL.
+
DSCH DeleteInformationItem RL ReconfPrepFDD ExtIEs RNSAP PROTOCOL EXTENSION ::= {
+
RL-InformationList-RL-ReconfPrepFDD
                                           ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-Information-RL-ReconfPrepFDD-
IEs} }
RL-Information-RL-ReconfPrepFDD-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-ReconfPrepFDD
                                               CRITICALITY reject TYPE RL-Information-RL-ReconfPrepFDD
                                                                                                            PRESENCE mandatory
RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-TD
                               RL-ID,
    sSDT-Indication
                                   SSDT-Indication
                                                       OPTIONAL,
    sSDT-CellIdentity
                                   SSDT-CellID
                                                   OPTTONAL.
    -- The IE shall be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
    transmitDiversityIndicator
                                   TransmitDiversityIndicator
                                                                   OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and is not equal to "none"
    iE-Extensions
                                   ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   -{ ID id-SSDT-CellIDforEDSCHPC
                                         CRITICALITY ignore EXTENSION SSDT CellID PRESENCE conditional } |
    -- This IE shall be present if Enhanced DSCH PC IE is present in either the DSCHs to Modify IE or the DSCHs to Add IE.
      ID id-DLReferencePower
                                               CRITICALITY ignore EXTENSION DL-Power
                                                                                                   PRESENCE optional }
      ID id-RL-Specific-DCH-Info
                                               CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE
                                                                                                               optional }
      ID id-DL-DPCH-TimingAdjustment
                                               CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }
      ID id-Oth-Parameter
                                               CRITICALITY ignore EXTENSION Oth-Parameter
                                                                                                PRESENCE optional }
      ID id-Phase-Reference-Update-Indicator
                                               CRITICALITY ignore EXTENSION Phase-Reference-Update-Indicator PRESENCE optional }
      ID id-RL-Specific-EDCH-Information
                                               CRITICALITY reject
                                                                       EXTENSION RL-Specific-EDCH-Information
                                                                                                                  PRESENCE optional }
      ID id-EDCH-MACdFlows-To-Add
                                                                       EXTENSION RL-Specific-EDCH-Information
                                                                                                                  PRESENCE optional }
                                               CRITICALITY reject
     ID id-EDCH-RL-Indication
                                               CRITICALITY reject
                                                                       EXTENSION EDCH-RL-Indication
                                                                                                                  PRESENCE optional },
    . . .
}
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-HSDSCH-FDD-Information
                                                           CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                              PRESENCE optional }
      ID id-HSDSCH-Information-to-Modify
                                                           CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
                                                                                                                              PRESENCE optional}
      ID id-HSDSCH-MACdFlows-to-Add
                                                           CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
                                                                                                                              PRESENCE optional}
      ID id-HSDSCH-MACdFlows-to-Delete
                                                           CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                                              PRESENCE optional }
      ID id-HSPDSCH-RL-ID
                                                           CRITICALITY reject EXTENSION RL-ID
                                                                                                                              PRESENCE optional } |
     ID id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation
                                                                               CRITICALITY ignore EXTENSION UE-Support-Of-Dedicated-Pilots-For-
Channel-Estimation
                               PRESENCE optional }
    { ID id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH CRITICALITY ignore EXTENSION UE-Support-Of-Dedicated-Pilots-For-
Channel-Estimation-Of-HS-DSCH PRESENCE optional }
    { ID id-EDPCH-Information
                                                           CRITICALITY reject EXTENSION EDPCH-Information-FDD
                                                                                                                             PRESENCE optional } |
```

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```
ID id-EDCH-FDD-Information
                                                            CRITICALITY reject EXTENSION EDCH-FDD-Information
                                                                                                                                 PRESENCE optional }
      ID id-EDCH-FDD-Information-To-Modify
                                                            CRITICALITY reject EXTENSION EDCH-FDD-Information-To-Modify
                                                                                                                                 PRESENCE optional}
      ID id-EDCH-MACdFlows-To-Delete
                                                            CRITICALITY reject EXTENSION EDCH-MACdFlows-To-Delete
                                                                                                                                 PRESENCE optional}
     ID id-Serving-EDCHRL-Id
                                                            CRITICALITY reject EXTENSION RL-ID
                                                                                                                                 PRESENCE
conditional}
    -- This IE is present if RL Specific E-DCHInformation IE is present.
   { ID id-F-DPCH-Information-RL-ReconfPrepFDD
                                                            CRITICALITY reject EXTENSION F-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional},
    . . .
}
F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
    powerOffsetInformation
                                    PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                    ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEOUENCE {
    po2-ForTPC-Bits
                                    PowerOffset,
    iE-Extensions
                                    ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
}
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

UNCHANGED TEXT IS REMOVED

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_ _ -- RADIO LINK RECONFIGURATION READY FDD _ _ RadioLinkReconfigurationReadyFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationReadvFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}} OPTIONAL, RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseList-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReadyFDD PRESENCE optional } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RL-InformationResponseList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-ReconfReadyFDD-IEs } } RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD PRESENCE mandatory } } RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE { rL-ID RL-ID, max-UL-SIR UL-SIR OPTIONAL, min-UL-SIR UL-SIR OPTIONAL, maximumDLTxPower DL-Power OPTIONAL, minimumDLTxPower DL-Power OPTIONAL, secondary-CCPCH-Info Secondary-CCPCH-Info OPTIONAL, dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD OPTIONAL, DCH-InformationResponseList-RL-ReconfReadyFDD dCHInformationResponse OPTIONAL. not-Used-dSCHsToBeAddedOrModified OPTIONAL, ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional } ID id-Primary-CPICH-Usage-For-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-For-Channel-Estimation PRESENCE optional }| ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional } | ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse PRESENCE optional }| ID id-EDCH-RLSet-Id CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }| ID id-EDCH-FDD-DL-ControlChannelInformation CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation PRESENCE optional },

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}			
DL-CodeInformationList-RL-ReconfReadyFDD ::= Pr	otocolIE-Single-Containe	r {{ DL-CodeInformationListIEs-RL-ReconfReadyF	{ DD } }
<pre>DL-CodeInformationListIEs-RL-ReconfReadyFDD RNS { ID id-FDD-DL-CodeInformation CRITICALIT }</pre>		eInformation PRESENCE mandatory }	
$\time{DCH-InformationResponseList-RL-ReconfReadyFDD}$::= Protoco	<pre>lIE-Single-Container { {DCH-InformationRespons</pre>	<pre>seListIEs-RL-ReconfReadyFDD} }</pre>
DCH-InformationResponseListIEs-RL-ReconfReadyFD { ID id-DCH-InformationResponse CRITICA }			
DSCHsToBeAddedOrModified RL ReconfReadyFDD ::=	ProtocolIE Single Contai	ner { {DSCHsToBeAddedOrModifiedIEs RL ReconfRe	adyFDD}
DSCHsToBeAddedOrModifiedIEs-RL-ReconfReadyFDD R [ID id DSCHsToBeAddedOrModified FDD CRI]		CH FDD InformationResponse PRESENCE mandato	ry }
RadioLinkReconfigurationReadyFDD-Extensions RNS			
(ID id-DSCH-RNTI	CRITICALITY ignore	EXTENSION DSCH-RNTI	PRESENCE optional }
{ ID id-HSDSCH-RNTI { ID id-HSDSCH-FDD-Information-Response	CRITICALITY ignore CRITICALITY ignore	EXTENSION HSDSCH-RNTI EXTENSION HSDSCH-FDD-Information-Response	PRESENCE optional } PRESENCE optional }
{ ID id-MAChs-ResetIndicator	CRITICALITY ignore	EXTENSION MAChs-ResetIndicator	PRESENCE optional },



. . .

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}

Information Element Definitions 9.3.4 ____ _ _ -- Information Element Definitions _ _ RNSAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxCodeNumComp-1, maxNrOfFACHs, maxFACHCountPlus1, maxIBSEG, maxNoOfDSCHs, -maxNoOfDSCHs-1, maxNoOfUSCHs, maxNoTFCIGroups, -maxNoCodeGroups, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR maxNrOfDPCHs, maxNrOfDPCHsLCR, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC, maxNrOfMACcshSDU-Length, maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfTsLCR, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC, maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfRLs, maxNrOfTFCs, maxNrOfTFs, maxCTFC, maxRNCinURA-1, maxNrOfSCCPCHs,

-maxTFCI1Combs, maxTFCI2Combs. maxTFCI2Combs-1. maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, maxNrOfActiveMBMSServices, maxNrOfSNAs, maxNrOfHARQProc, maxNrOfHSSCCHCodes, maxNrOfMACdFlows, maxNrOfMACdFlows-1, maxNrOfMBMSServices, maxNrOfPDUIndexes, maxNrOfPDUIndexes-1, maxNrOfPrioOueues, maxNrOfPrioOueues-1, maxNrOfSatAlmanac-maxNoSat, maxNrOfGERANSI, maxNrofDDIs, maxNrofSigSegERGHICH-1, id-Allowed-Rate-Information, id-AntennaColocationIndicator, id-BindingID, id-Cell-Capacity-Class-Value, id-CellCapabilityContainer-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-CoverageIndicator, id-DPC-Mode-Change-SupportIndicator, id-GERAN-Cell-Capability, id-GERAN-Classmark, id-Guaranteed-Rate-Information, id-HCS-Prio, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-NRT-Load-Information-Value, id-NRT-Load-Information-Value-IncrDecrThres, id-OnModification, id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-RT-Load-Value, id-RT-Load-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-SNA-Information, id-TrafficClass,

```
id-Transmitted-Carrier-Power-Value,
```

id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation. id-UL-Timeslot-ISCP-Value. id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels. maxNrOfMeasNCell, maxNrOfMeasNCell-1, id-MessageStructure, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TransportLayerAddress, id-TypeOfError, id-Angle-Of-Arrival-Value-LCR, id-IPDL-TDD-ParametersLCR, id-DSCH-InitialWindowSize, id-Maximum-DL-Power-TimeslotLCR-InformationItem, id-MBMS-Bearer-Service-Full-Address, id-Minimum-DL-Power-TimeslotLCR-InformationItem, id-HS-SICH-Reception-Quality, id-HS-SICH-Reception-Quality-Measurement-Value, id-ExtendedGSMCellIndividualOffset, id-Unidirectional-DCH-Indicator, id-RTLoadValue. id-NRTLoadInformationValue, id-Satellite-Almanac-Information-ExtItem, id-TnlOos, id-UpPTSInterferenceValue, id-NACC-Related-Data, id-HARO-Preamble-Mode

FROM RNSAP-Constants

UNCHANGED TEXT IS REMOVED

```
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```

UNCHANGED TEXT IS REMOVED

```
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}
CodeNumber ::= INTEGER (0...maxCodeNumComp-1)
CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}
```

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UNCHANGED TEXT IS REMO	DVED			
D				
DATA-ID ::= INTEGER ()	J3)			
UNCHANGED TEXT IS REMO	DVED			
DRXCycleLengthCoeffic: See in [16]	ient ::= INTEGER	(39)		
DSCH-FDD-Information:				
		· · · · · · · · · · · · · · · · · · ·		
				ne DSCH Specific FDD Item;s should be
Information ExtIEs.	-information, from 2 -DSCH-Spec	inc rub item, they will b	e included in the DSCH-Speci	fic FDD Additional List in the DSCH FDD-
	TFCS.			
	,	asionContainer { { DSCH FDD	Information ExtIEs } OPTIO	NAT
	FICCOCOTEXCE	instemeonicatinet ([DBell PDB	Information Exclusion of The	(1112),
+				
	SCHPC CRITICALITY : (065535) m ::= SEQUENCE { DSCH ID,	CRITICALITY reject EXTENS: ignore EXTENSION Enhanced		onal-List PRESENCE optional } HCE optional },
<u>allocationRetenti</u>		tentionPriority,		
		iorityIndicator,		
	BLER,	for rey marcacor,		
		nsionContainer { {DSCH Spe	ific-FDD-Item-ExtIEs} } OPT:	IONAL,
+				
ID id TrafficCl ID id BindingID Shall be ignore ID id Transport	m ExtIES RNSAP PROTOCOL EXTENSI ass CRITICALITY ignore in CRITICAL ed if bearer establishment with LayerAddress CRITICAL ed if bearer establishment with	EXTENSION TrafficClass ITY ignore EXTENSION ALCAP. ITY ignore EXTENSION	BindingID PRESENCE	<pre>optional }+ PRESENCE optional },</pre>
DSCH-Specific-FDD-Add	itional-List ::= SEQUENCE (SIZE	(1maxNoOfDSCHs-1)) OF DS	H-Specific-FDD-Item	
DSCH FDD InformationR	esponse ::= SEQUENCE {			

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```
dsch-Specific-InformationResponse DSCH-Specific-FDD-InformationResponse,
 iE-Extensions
                                -ProtocolExtensionContainer { { DSCH-FDD-InformationResponse-ExtIEs } } OPTIONAL,
   -----
}
DSCH FDD InformationResponse Extles RNSAP PROTOCOL EXTENSION ::= {
   . . .
+
DSCH-Specific-FDD-InformationResponse ::= SEQUENCE (SIZE(1...maxNoOfDSCHs)) OF DSCH-Specific-FDD-Response-Item
DSCH Specific FDD Response Item ::= SEQUENCE {
-dsch ID
                          DSCH-ID.
BindingID OPTIONAL,
TransportLayerAddress OPTIONAL,
                             -ProtocolExtensionContainer { {DSCH-Specific-FDD-Response-Item-ExtIEs} } OPTIONAL,
+
DSCH Specific FDD Response Item ExtIEs RNSAP PROTOCOL EXTENSION ::= {
}
DSCH-FlowControlInformation ::= SEQUENCE (SIZE(1..16)) OF DSCH-FlowControlItem
UNCHANGED TEXT IS REMOVED
-- E
UNCHANGED TEXT IS REMOVED
E-TTI ::= ENUMERATED {
   tti10,
   tti2
-- 10ms TTI, 2ms TTI
}
EnhancedDSCHPC ::= SEQUENCE {
enhancedDSCHPCWnd EnhancedDSCHPCWnd,
enhancedDSCHPCCounter EnhancedDSCHPCCounter,
• • •
+
EnhancedDSCHPCCounter ::= INTEGER (1..50)
EnhancedDSCHPCIndicator ::= ENUMERATED {
  -enhancedDSCHPCActiveInTheUE,
  enhancedDSCHPCNotActiveInTheUE
}
                                                        CR page 165
```

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EnhancedDSCHPCWnd ::= INTEGER (1..10)

EnhancedDSCHPowerOffset ::= INTEGER (-15..0)

Enhanced-PrimaryCPICH-EcNo ::= INTEGER (0..49)

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-- L

UNCHANGED TEXT IS REMOVED

LAC ::= OCTET STRING (SIZE (2)) --(EXCEPT ('0000'H|'FFFE'H))

LengthOfTFCI2 ::= INTEGER(1..10)

LimitedPowerIncrease ::= ENUMERATED {
 used,
 not-used
}

UNCHANGED TEXT IS REMOVED

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UNCHANGED TEXT IS REMOVED

```
MaxNrULPhysicalchannels := INTEGER (1..2)
```

MaxTFCIvalue ::= INTEGER (1..1023)

```
MBMS-Bearer-Service-Full-Address-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
} ...
```

UNCHANGED TEXT IS REMOVED

MinimumSpreadingFactor := INTEGER (1..16)

MinULChannelisationCodeLength-EDCH-FDD ::= ENUMERATED {v2, v4, v8, v16, v32, v64,...}

Multi-code-info ::= INTEGER (1..16)

MultipleURAsIndicator ::= ENUMERATED {
 multiple-URAs-exist,
 single-URA-exists

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}

UNCHANGED TEXT IS REMOVED

PC-Preamble ::= INTEGER(0...7,...)

2	DL-ScramblingCode,	
	PDSCHCodeMapping Signa	
iE-Extensions	ProtocolExtensionConta	ainer { { PDSCHCodeMapping ExtIEs } } OPTIONAL,
· · · ·		
HCodeMapping-Extles RNSA	P-PROTOCOL-EXTENSION	··= {
•••		
HCodeMapping SignallingM	lothod ··- CHOTCE	
pDSCHCodeMapping-Signall		PDSCHCodeMapping-SignallingMethod-CodeRange,
pDSCHCodeMapping-Signall pDSCHCodeMapping-Signall		
pDSCHCodeMapping Signall		PDSCHCodeMapping SignallingMethod Explicit,
	Ingricenou-Expirett	ippencodemapping bignatilingmethod Explicit,
, pDSCHCodeMapping_Signall	ingMethod_Replace	PDSCHCodeMapping SignallingMethod Replace
popoliocacitapping bighail		
SEQUENCE { 		EQUENCE (SIZE (1maxNoCodeGroups)) OF
SEQUENCE { spreadingFactor multi code info start-CodeNumber	SpreadingFactor, Multi code info, CodeNumber,	EQUENCE (SIZE (1maxNoCodeGroups)) OF
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber	SpreadingFactor, Multi code info, CodeNumber, CodeNumber,	
SEQUENCE { spreadingFactor multi code info start-CodeNumber	SpreadingFactor, Multi code info, CodeNumber, CodeNumber,	EQUENCE (SIZE (1maxNoCodeGroups)) OF Container { { PDSCHCodeMapping SignallingMethod CodeRange ExtIEs} } OPTIONAL,
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber	SpreadingFactor, Multi code info, CodeNumber, CodeNumber,	
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber iE Extensions	SpreadingFactor, Multi code info, CodeNumber, CodeNumber,	
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber iE Extensions }	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Container { {
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber iE Extensions } HCodeMapping-SignallingM	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber iE Extensions }	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Container { {
SEQUENCE { spreadingFactor multi code info start-CodeNumber stop-CodeNumber iE Extensions } HCodeMapping-SignallingM	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Container { {
SEQUENCE { spreadingFactor multi_code_info start-CodeNumber stop-CodeNumber iE Extensions } HCodeMapping-SignallingM	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Container { { PDSCHCodeMapping SignallingMethod CodeRange ExtIEs} } OPTIONAL, s RNSAP-PROTOCOL-EXTENSION ::= {
SEQUENCE { spreadingFactor multi_code_info start-CodeNumber stop-CodeNumber iE Extensions } HCodeMapping-SignallingM	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Container { {
SEQUENCE { spreadingFactor multi_code_info start-CodeNumber stop-CodeNumber iE Extensions } HCodeMapping-SignallingM	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Container { { PDSCHCodeMapping SignallingMethod CodeRange ExtIEs} } OPTIONAL, s RNSAP-PROTOCOL-EXTENSION ::= {
SEQUENCE { spreadingFactor multi_code_info start-CodeNumber iE Extensions } HCodeMapping-SignallingM HCodeMapping_SignallingM SEQUENCE {	SpreadingFactor, Multi_code_info, CodeNumber, CodeNumber, ProtocolExtension(lethod-CodeRange-ExtIE(Container { { PDSCHCodeMapping SignallingMethod CodeRange ExtIEs} } OPTIONAL, s RNSAP-PROTOCOL-EXTENSION ::= {
SEQUENCE { spreadingFactor multi_code_info start-CodeNumber iE Extensions } HCodeMapping-SignallingM HCodeMapping_SignallingM SEQUENCE { marTFCIvalue	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Wethod-CodeRange-ExtIEs Wethod TFCIRange ::= SI MaxTFCIvalue,	Container { { PDSCHCodeMapping SignallingMethod CodeRange ExtIEs} } OPTIONAL, s RNSAP-PROTOCOL-EXTENSION ::= {
SEQUENCE { spreadingFactor multi code info start-CodeNumber ite Extensions } HCodeMapping-SignallingM HCodeMapping SignallingM SEQUENCE { maxTFCIvalue spreadingFactor	SpreadingFactor, Multi code info, CodeNumber, CodeNumber, ProtocolExtension(Wethod-CodeRange-ExtIEs Nethod TFCIRange ::= SI MaxTFCIvalue, SpreadingFactor,	Container { { PDSCHCodeMapping SignallingMethod CodeRange ExtIEs} } OPTIONAL, s RNSAP-PROTOCOL-EXTENSION ::= {

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```
PDSCHCodeMapping-SignallingMethod-TFCIRange-ExtIEs_RNSAP-PROTOCOL-EXTENSION ::= {
+
PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1...maxTFCI2Combs)) OF
  SEQUENCE {
       -spreadingFactor-
                             -multi-code-info-
                             - Multi-code-info,
      - codeNumber -
                              -CodeNumber,
                               -ProtocolExtensionContainer { { PDSCHCodeMapping SignallingMethod Explicit ExtIEs } } OPTIONAL,
      - iE-Extensions
        ...
_____
PDSCHCodeMapping SignallingMethod Explicit ExtIEs RNSAP PROTOCOL EXTENSION ::= {
}
PDSCHCodeMapping-SignallingMethod-Replace ::= SEQUENCE (SIZE (1...maxTFCI2Combs)) OF
tfci-Field2
                                  TFCS MaxTFCI field2 Value,
       -spreadingFactor-
                                  -SpreadingFactor,
                                  -Multi-code-info,
       -multi-CodeInfo-
                                   CodeNumber,
       -codeNumber
                                  - ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-Replace-ExtIEs} } OPTIONAL.
      }
PDSCHCodeMapping-SignallingMethod-Replace-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
+
Periodic ::= SEQUENCE {
   reportPeriodicity
                           ReportPeriodicity,
                           ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
}
Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UNCHANGED TEXT IS REMOVED
-- S
UNCHANGED TEXT IS REMOVED
SpecialBurstScheduling ::= INTEGER (1..256)
SplitType ::= ENUMERATED {
-hard,
   logical
+
```

```
SpreadingFactor ::= INTEGER (4 8 16 32 64 128 256)
```

S-RNTI ::= INTEGER (0..1048575) -- From 0 to 2^20-1

UNCHANGED TEXT IS REMOVED

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UNCHANGED TEXT IS REMOVED

```
TFCI-Coding ::= ENUMERATED {
   v4,
   v8,
   v16,
   v32,
   . . .
}
TFCI-PC-SupportIndicator ::= ENUMERATED {
}
TFCI-Presence ::= ENUMERATED {
   present,
   not-present
}
TFCI-SignallingMode ::= ENUMERATED {
   normal,
   not-Used-split
```

-- The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.

```
UNCHANGED TEXT IS REMOVED
```

}

```
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEQUENCE
       betaC
                                BetaCD,
       betaD
                                BetaCD,
       refTFCNumber
                                RefTFCNumber
                                                 OPTIONAL,
       iE-Extensions
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
        . . .
    },
    refTFCNumber
                            RefTFCNumber,
    . . .
SignalledGainFactors-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
TFCS ::= SEQUENCE {
     tFCSvalues
                         CHOICE {
         no-Split-in-TFCI
                                     TFCS-TFCSList,
         not-Used-split-in-TFCI
                                           _____
             transportFormatCombination-DCH TFCS-DCHList,
             signallingMethod
                                                 CHOICE {
                tFCI-Range
                                                -TFCS-MapingOnDSCHList,
                 explicit
                                                  +
                                                ProtocolExtensionContainer { { Split-in-TFCI-ExtIEs } } OPTIONAL,
             iE-Extensions
         +,
         -- This choice shall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.
         . . .
      ł.
                         ProtocolExtensionContainer { { TFCS-ExtIEs} }
     iE-Extensions
                                                                            OPTIONAL,
     . . .
 Split-in-TFCI-Extles RNSAP-PROTOCOL EXTENSION ::= {
 }
 TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     . . .
 }
 TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
     SEQUENCE {
         CTFC
                            TFCS-CTFC,
         tFC-Beta
                        TransportFormatCombination-Beta
                                                            OPTIONAL,
         -- The IE shall be present if the TFCS concerns a UL DPCH [FDD - or PRACH channel in FDD]
                             ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
         iE-Extensions
                                                                                        OPTIONAL,
     . . .
 }
 TFCS-TFCSList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     . . .
 }
 TFCS-CTFC ::= CHOICE {
     ctfc2bit
                                         INTEGER (0..3),
     ctfc4bit
                                         INTEGER (0..15),
     ctfc6bit
                                         INTEGER (0..63),
     ctfc8bit
                                         INTEGER (0..255),
     ctfc12bit
                                         INTEGER (0..4095),
     ctfc16bit
                                         INTEGER (0..65535),
     ctfcmaxbit
                                         INTEGER (0..maxCTFC)
 }
TFCS DCHList ::= SEQUENCE (SIZE (1..maxTFCI1Combs)) OF
```

```
SEQUENCE {
       CTFC
                          TFCS CTFC
       -iE-Extensions ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } } OPTIONAL,
       ....
}
TFCS DCHList Extles RNSAP PROTOCOL EXTENSION ::= {
    . . .
+
TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1...maxNoTFCIGroups)) OF
   SEOUENCE {
     maxTFCI_field2_Value TFCS_MaxTFCI_field2_Value,
      - CTFC-DSCH TFCS-CTFC,
                          ProtocolExtensionContainer { { TFCS MapingOnDSCHList ExtIEs } } OPTIONAL,
     . . .
}
TFCS MapingOnDSCHList Extles RNSAP PROTOCOL EXTENSION ::= {
   <del>...</del>
+
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
   SEQUENCE {
      _____
     <del>...</del>
+
TFCS DSCHList Extles RNSAP PROTOCOL EXTENSION ::= {
   . . .
}
TransportFormatSet ::= SEQUENCE {
   dynamicPartsTransportFormatSet-DynamicPartList,semi-staticPartTransportFormatSet-Semi-staticPart,iE-ExtensionsProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    . . .
}
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UNCHANGED TEXT IS REMOVED
```

9.3.6 Constant Definitions -- Constant definitions ***** RNSAP-Constants { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes; _ _ -- Elementary Procedures _ _ id-commonTransportChannelResourcesInitialisation ProcedureCode ::= 0 id-commonTransportChannelResourcesRelease ProcedureCode ::= 1id-compressedModeCommand ProcedureCode ::= 2id-downlinkPowerControl ProcedureCode ::= 3 id-downlinkPowerTimeslotControl ProcedureCode ::= 4id-downlinkSignallingTransfer ProcedureCode ::= 5 id-errorIndication ProcedureCode ::= 6id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 id-dedicatedMeasurementReporting ProcedureCode ::= 9 ${\it id-dedicated} {\tt Measurement} {\tt Termination}$ ProcedureCode ::= 10id-paging ProcedureCode ::= 11 id-physicalChannelReconfiguration ProcedureCode ::= 12 id-privateMessage ProcedureCode ::= 13 id-radioLinkAddition ProcedureCode ::= 14 id-radioLinkCongestion ProcedureCode ::= 34 id-radioLinkDeletion ProcedureCode ::= 15 id-radioLinkFailure ProcedureCode ::= 16 id-radioLinkPreemption ProcedureCode ::= 17 id-radioLinkRestoration ProcedureCode ::= 18 id-radioLinkSetup ProcedureCode ::= 19id-relocationCommit ProcedureCode ::= 20 ${\it id-synchronised} Radio {\it Link} Reconfiguration Cancellation$ ProcedureCode ::= 21 ProcedureCode ::= 22 id-synchronisedRadioLinkReconfigurationCommit id-synchronisedRadioLinkReconfigurationPreparation ProcedureCode ::= 23

id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 24
id-uplinkSignallingTransfer	ProcedureCode ::= 25
id-commonMeasurementFailure	ProcedureCode ::= 26
id-commonMeasurementInitiation	ProcedureCode ::= 27
id-commonMeasurementReporting	ProcedureCode ::= 28
id-commonMeasurementTermination	ProcedureCode ::= 29
id-informationExchangeFailure	ProcedureCode ::= 30
id-informationExchangeInitiation	ProcedureCode ::= 31
id-informationReporting	ProcedureCode ::= 32
id-informationExchangeTermination	ProcedureCode ::= 33
id-reset	ProcedureCode ::= 35
id-radioLinkActivation	ProcedureCode ::= 36
id-gERANuplinkSignallingTransfer	ProcedureCode ::= 37
id-radioLinkParameterUpdate	ProcedureCode ::= 38
id-uEMeasurementFailure	ProcedureCode ::= 39
id-uEMeasurementInitiation	ProcedureCode ::= 40
id-uEMeasurementReporting	ProcedureCode ::= 41
id-uEMeasurementTermination	ProcedureCode ::= 42
id-iurDeactivateTrace	ProcedureCode ::= 43
id-iurInvokeTrace	ProcedureCode ::= 44
id-mBMSAttach	ProcedureCode ::= 45
id-mBMSDetach	ProcedureCode ::= 46
id-mBMSChannelTypeReconfiguration	ProcedureCode ::= 47
************************************	* * * * * * * * * * * * *
- 1 .	

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-- Lists ___

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maxCodeNumComp-1	INTEGER ::= 255
maxRateMatching	INTEGER ::= 256
maxNoCodeGroups	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNoTFCIGroups	INTEGER ::= 256
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfMBMSServices	INTEGER ::= 128
maxNrOfActiveMBMSServices	INTEGER ::= 256
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs

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maxNrOfRLSets-1	INTEGER ::= 15 maxNrOfRLSets - 1
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfUEs	INTEGER ::= 16
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215
maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfFACHs	INTEGER ::= 8
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256
maxFACHCountPlus1	INTEGER ::= 10
maxIBSEG	INTEGER ::= 16
maxIIDDIG	INTEGER ::= 8
maxTFCI1Combs	INTEGER := 512
maxIFCI2Combs	$\frac{1}{10000000000000000000000000000000000$
maxIFCI2Combs-1	$\frac{1024}{1000}$
	INTEGER ::= 6
maxTGPS	
maxNrOfTS	INTEGER := 15
maxNrOfLevels	INTEGER := 256
maxNoOfDSCHs 1	INTEGER ::= 9
maxNrOfTsLCR	INTEGER ::= 6
maxNoSat	INTEGER ::= 16
maxNoGPSTypes	INTEGER ::= 8
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxResetContext	INTEGER ::= 250
maxResetContextGroup	INTEGER ::= 32
maxNrOfHARQProc	INTEGER ::= 8
maxNrOfHSSCCHCodes	INTEGER ::= 4
maxNrOfHSSICHs	INTEGER ::= 4
maxNrOfMACdFlows	INTEGER ::= 8
maxNrOfMACdFlows-1	INTEGER ::= 7 maxNrOfMACdFlows - 1
maxNrOfPDUIndexes	INTEGER ::= 8
maxNrOfPDUIndexes-1	INTEGER ::= 7 maxNrOfPDUIndexes - 1
maxNrOfPrioQueues	INTEGER ::= 8
maxNrOfPrioQueues-1	INTEGER ::= 7 maxNrOfPrioQueues - 1
maxNrOfSNAs	INTEGER ::= 65536
maxNrOfSatAlmanac-maxNoSat	INTEGER ::= 16
maxNrOfGERANSI	INTEGER ::= 8
maxNrOfInterfaces	INTEGER ::= 16
maxNrofDDIs	INTEGER ::= 63
maxNrofSigSegERGHICH-1	INTEGER ::= 39

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-- IEs

id-AllowedQueuingTime
id-Allowed-Rate-Information
id-AntennaColocationIndicator
id-BindingID
id-C-ID
id-C-RNTI
id-Cell-Capacity-Class-Value
id-CFN
id-CN-CS-DomainIdentifier
id-CN-PS-DomainIdentifier
id-Cause
id-CoverageIndicator
id-CriticalityDiagnostics
id-ContextInfoItem-Reset
id-ContextGroupInfoItem-Reset
id-D-RNTI
id-D-RNTI-ReleaseIndication
id-DCHs-to-Add-FDD
id-DCHs-to-Add-TDD
id-DCH-DeleteList-RL-ReconfPrepFDD
id-DCH-DeleteList-RL-ReconfPrepTDD
id-DCH-DeleteList-RL-ReconfRgstFDD
id-DCH-DeleteList-RL-ReconfRgstTDD
id-DCH-FDD-Information
id-DCH-TDD-Information
id-FDD-DCHs-to-Modify
id-TDD-DCHs-to-Modify
id-DCH-InformationResponse
id-DCH-Rate-InformationItem-RL-CongestInd
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD
id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD
id-FDD-DL-CodeInformation
id-DL-DPCH-Information-RL-ReconfPrepFDD
id-DL-DPCH-Information-RL-SetupRqstFDD
id-DL-DPCH-Information-RL-ReconfRqstFDD
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD
id-DL-DPCH-InformationItem-RL-AdditionRspTDD
id-DL-DPCH-InformationItem-RL-SetupRspTDD
id-DL-DPCH-TimingAdjustment
id-DLReferencePower
id-DLReferencePowerList-DL-PC-Rgst

ProtocolIE-ID ::= 4 ProtocolIE-ID ::= 42 ProtocolIE-ID ::= 309 ProtocolIE-ID ::= 5 ProtocolIE-ID ::= 6 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 303 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 11 ProtocolIE-ID ::= 310 ProtocolIE-ID ::= 20 ProtocolIE-ID ::= 211 ProtocolIE-ID ::= 515 ProtocolIE-ID ::= 21 ProtocolIE-ID ::= 22 ProtocolIE-ID ::= 26 ProtocolIE-ID ::= 27 ProtocolIE-ID ::= 30 ProtocolIE-ID ::= 31 ProtocolIE-ID ::= 32 ProtocolIE-ID ::= 33 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 40 ProtocolIE-ID ::= 43 ProtocolIE-ID ::= 38 ProtocolIE-ID ::= 44 ProtocolIE-ID ::= 45 ProtocolIE-ID ::= 46 ProtocolIE-ID ::= 47 ProtocolIE-ID ::= 48 ProtocolIE-ID ::= 49 ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 278 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68

id-DL-ReferencePowerInformation-DL-PC-Rqst id-DPC-Mode id-DRXCvcleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Fail-Ind id-DedicatedMeasurementObjectType-DM-Fail id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rgst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMST id-HCS-Prio id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-NRT-Load-Information-Value id-NRT-Load-Information-Value-IncrDecrThres id-PagingArea-PagingRgst id-FACH-FlowControlInformation id-PartialReportingIndicator id-Permanent-NAS-UE-Identity id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRgstFDD id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRqstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRgstFDD id-RL-Information-RL-SetupRqstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rqst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-CongestInd id-RL-InformationList-RL-AdditionRqstFDD id-RL-InformationList-RL-DeletionRqst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadyTDD

ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 470 ProtocolIE-ID ::= 471 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 311 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 305 ProtocolIE-ID ::= 306 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 472 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolTE-TD := 120ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128

id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadvFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rost id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-RL-Set-Successful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind id-RL-Successful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail-Ind id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RT-Load-Value id-RT-Load-Value-IncrDecrThres id-S-RNTI id-ResetIndicator id-RNC-TD id-SAT id-SRNC-TD id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLayerAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD id-UL-CCTrCH-InformationList-RL-SetupRqstTDD id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRqstFDD id-UL-DPCH-Information-RL-SetupRqstFDD id-UL-DPCH-InformationItem-PhyChReconfRqstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD

ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 473 ProtocolIE-ID ::= 474 ProtocolIE-ID ::= 475 ProtocolIE-ID ::= 476 ProtocolTE-TD := 477ProtocolIE-ID ::= 478 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 307 ProtocolIE-ID ::= 308 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 244 ProtocolIE-ID ::= 245 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolTE-TD ::= 171ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182

id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-DSCHs-to-Add-TDD id-Unused-ProtocolIE-ID-216DSCHs to Add FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-218DSCH Delete RL ReconfPrepFDD id-Unused-ProtocolIE-ID-219DSCH FDD Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-Unused-ProtocolIE-ID-223DSCH-FDD InformationResponse id-Unused-ProtocolIE-ID-226DSCH-Information RL-SetupRqstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-228DSCH-Modify-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-324DSCH-Specific-FDD-Additional-List id-Unused-ProtocolIE-ID-229DSCHsToBeAddedOrModified FDD id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-Unused-ProtocolIE-ID-29EnhancedDSCHPC id-Unused-ProtocolIE-ID-225EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-Unused-ProtocolIE-ID-246SSDT_CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD

ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 -ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 324 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 -ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 225 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolTE-TD ::= 246 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265

id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD	ProtocolIE-ID ::= 266
id-USCHs-to-Add	ProtocolIE-ID ::= 267
id-USCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 268
id-USCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 269
id-USCH-InformationListIEs-RL-SetupRspTDD	ProtocolIE-ID ::= 270
id-USCH-Information	ProtocolIE-ID ::= 271
id-USCH-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 272
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	ProtocolIE-ID ::= 273
id-DL-Physical-Channel-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 274
id-UL-Physical-Channel-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 275
id-ClosedLoopModel-SupportIndicator	ProtocolIE-ID ::= 276
id-ClosedLoopMode2-SupportIndicator	ProtocolIE-ID ::= 277
id-STTD-SupportIndicator	ProtocolIE-ID ::= 279
id-CFNReportingIndicator	ProtocolIE-ID ::= 14
id-CNOriginatedPage-PagingRqst	ProtocolIE-ID ::= 23
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 24
id-PropagationDelay	ProtocolIE-ID ::= 25
id-RxTimingDeviationForTA	ProtocolIE-ID ::= 36
id-timeSlot-ISCP	ProtocolIE-ID ::= 37
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 15
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 16
id-CommonMeasurementAccuracy	ProtocolIE-ID ::= 280
id-CommonMeasurementObjectType-CM-Rprt	ProtocolIE-ID ::= 281
id-CommonMeasurementObjectType-CM-Rqst	ProtocolIE-ID ::= 282
id-CommonMeasurementObjectType-CM-Rsp	ProtocolIE-ID ::= 283
id-CommonMeasurementType	ProtocolIE-ID ::= 284
id-CongestionCause	ProtocolIE-ID ::= 18
id-SFN	ProtocolIE-ID ::= 285
id-SFNReportingIndicator	ProtocolIE-ID ::= 286
id-InformationExchangeID	ProtocolIE-ID ::= 287
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID ::= 288
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID ::= 289
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID ::= 290
id-InformationReportCharacteristics	ProtocolIE-ID ::= 291
id-InformationType	ProtocolIE-ID ::= 292
id-neighbouring-LCR-TDD-CellInformation	ProtocolIE-ID ::= 58
id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 65
id-RL-LCR-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 66
id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::= 75
id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD	ProtocolIE-ID ::= 76
id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::= 77
id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD	ProtocolIE-ID ::= 78
id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD	ProtocolIE-ID ::= 79
id-USCH-LCR-InformationListIEs-RL-SetupRsp1DD	ProtocolIE-ID ::= 80
id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD	ProtocolIE-ID ::= 81
-	ProtocollE-ID ··= 81 ProtocollE-ID ··= 86
id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD	ProtocollE-ID ::= 86 ProtocollE-ID ::= 87
id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::= 88
id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 89
id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::= 94
id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD	ProtocolIE-ID ::= 96
id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD	ProtocolIE-ID ::= 97
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 98

id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadvTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD id-TSTD-Support-Indicator-RL-SetupRgstTDD id-RestrictionStateIndicator id-Load-Value id-Load-Value-IncrDecrThres id-OnModification id-Received-Total-Wideband-Power-Value id-Received-Total-Wideband-Power-Value-IncrDecrThres id-SFNSFNMeasurementThresholdInformation id-Transmitted-Carrier-Power-Value id-Transmitted-Carrier-Power-Value-IncrDecrThres id-TUTRANGPSMeasurementThresholdInformation id-UL-Timeslot-ISCP-Value id-UL-Timeslot-ISCP-Value-IncrDecrThres id-Rx-Timing-Deviation-Value-LCR id-DPC-Mode-Change-SupportIndicator id-Unused-ProtocolIE-ID-247SplitType id-Unused-ProtocolIE-ID-295LengthOfTFCI2 id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD id-DSCH-RNTI id-DL-PowerBalancing-Information id-DL-PowerBalancing-ActivationIndicator id-DL-PowerBalancing-UpdatedIndicator id-DL-ReferencePowerInformation id-Enhanced-PrimaryCPICH-EcNo id-IPDL-TDD-ParametersLCR id-CellCapabilityContainer-FDD id-CellCapabilityContainer-TDD id-CellCapabilityContainer-TDD-LCR id-RL-Specific-DCH-Info id-RL-ReconfigurationReguestFDD-RL-InformationList id-RL-ReconfigurationReguestFDD-RL-Information-IEs id-RL-ReconfigurationReguestTDD-RL-Information id-CommonTransportChannelResourcesInitialisationNotRequired id-DelavedActivation id-DelayedActivationList-RL-ActivationCmdFDD id-DelayedActivationInformation-RL-ActivationCmdFDD id-DelavedActivationList-RL-ActivationCmdTDD id-DelayedActivationInformation-RL-ActivationCmdTDD id-neighbouringTDDCellMeasurementInformationLCR id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD id-PrimCCPCH-RSCP-DL-PC-RqstTDD id-HSDSCH-FDD-Information id-HSDSCH-FDD-Information-Response id-HSDSCH-FDD-Update-Information

ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 138 ProtocolIE-ID ::= 139 ProtocolIE-ID ::= 142 ProtocolIE-ID ::= 233 ProtocolIE-ID ::= 234 ProtocolIE-ID ::= 235 ProtocolIE-ID ::= 236 ProtocolIE-ID ::= 237 ProtocolIE-ID ::= 238 ProtocolIE-ID ::= 239 ProtocolIE-ID ::= 240 ProtocolIE-ID ::= 241 ProtocolIE-ID ::= 242 ProtocolIE-ID ::= 243 ProtocolIE-ID ::= 293 ProtocolIE-ID ::= 19

ProtocolIE-ID ::= 247 ProtocolIE-ID ::= 295

ProtocolIE-ID ::= 202 ProtocolIE-ID ::= 203 ProtocolIE-ID ::= 204 ProtocolIE-ID ::= 249 ProtocolIE-ID ::= 296 ProtocolIE-ID ::= 297 ProtocolIE-ID ::= 298 ProtocolIE-ID ::= 299 ProtocolIE-ID ::= 224 ProtocolIE-ID ::= 252 ProtocolIE-ID ::= 300 ProtocolIE-ID ::= 301 ProtocolIE-ID ::= 302 ProtocolIE-ID ::= 317 ProtocolIE-ID ::= 318 ProtocolIE-ID ::= 319 ProtocolIE-ID ::= 321 ProtocolIE-ID ::= 250 ProtocolIE-ID ::= 312 ProtocolIE-ID ::= 313 ProtocolIE-ID ::= 314 ProtocolIE-ID ::= 315 ProtocolIE-ID ::= 316 ProtocolIE-ID ::= 251 ProtocolIE-ID ::= 150 ProtocolIE-ID ::= 151 ProtocolIE-ID ::= 451 ProtocolIE-ID ::= 452 ProtocolIE-ID ::= 453 ProtocolIE-ID ::= 466

id-HSDSCH-Information-to-Modify id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd id-HSDSCH-RNTI id-HSDSCH-TDD-Information id-HSDSCH-TDD-Information-Response id-HSDSCH-TDD-Update-Information id-HSPDSCH-RL-ID id-HSDSCH-MACdFlows-to-Add id-HSDSCH-MACdFlows-to-Delete id-Angle-Of-Arrival-Value-LCR id-TrafficClass id-Unused-ProtocolIE-ID-248TFCI PC SupportIndicator id-Oth-Parameter id-PDSCH-RL-ID id-TimeSlot-RL-SetupRspTDD id-GERAN-Cell-Capability id-GERAN-Classmark id-DSCH-InitialWindowSize id-UL-Synchronisation-Parameters-LCR id-SNA-Information id-MAChs-ResetIndicator id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD id-TDD-UL-DPCH-TimeSlotFormatModifvItem-LCR-RL-ReconfReadvTDD id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD id-DL-CCTrCH-InformationItem-RL-AdditionRgstTDD id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD id-UL-TimingAdvanceCtrl-LCR id-HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD id-HS-SICH-Reception-Quality id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD id-CCTrCH-Maximum-DL-Power-RL-ReconfReadvTDD id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD id-DL-CCTrCH-InformationList-RL-ReconfRspTDD id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD id-Maximum-DL-Power-TimeslotLCR-InformationItem id-Minimum-DL-Power-TimeslotLCR-InformationItem ProtocolIE-ID ::= 511

ProtocolIE-ID ::= 456 ProtocolIE-ID ::= 516 ProtocolIE-ID ::= 517 ProtocolIE-ID ::= 457 ProtocolIE-ID ::= 458 ProtocolIE-ID ::= 459 ProtocolIE-ID ::= 467 ProtocolIE-ID ::= 463 ProtocolIE-ID ::= 531 ProtocolIE-ID ::= 532 ProtocolIE-ID ::= 148 ProtocolIE-ID ::= 158 ProtocolIE-ID ::= 248 ProtocolIE-ID ::= 253 ProtocolIE-ID ::= 323 ProtocolIE-ID ::= 325 ProtocolIE-ID ::= 468 ProtocolIE-ID ::= 469 ProtocolIE-ID ::= 480 ProtocolIE-ID ::= 464 ProtocolIE-ID ::= 479 ProtocolIE-ID ::= 465 ProtocolIE-ID ::= 481 ProtocolIE-ID ::= 482 ProtocolIE-ID ::= 483 ProtocolIE-ID ::= 484 ProtocolIE-ID ::= 485 ProtocolIE-ID ::= 486 ProtocolIE-ID ::= 487 ProtocolIE-ID ::= 488 ProtocolIE-ID ::= 489 ProtocolIE-ID ::= 490 ProtocolIE-ID ::= 491 ProtocolIE-ID ::= 492 ProtocolIE-ID ::= 493 ProtocolIE-ID ::= 494 ProtocolIE-ID ::= 495 ProtocolIE-ID ::= 496 ProtocolIE-ID ::= 497 ProtocolIE-ID ::= 498 ProtocolIE-ID ::= 499 ProtocolTE-TD := 500ProtocolIE-ID ::= 501 ProtocolIE-ID ::= 502 ProtocolIE-ID ::= 503 ProtocolIE-ID ::= 504 ProtocolIE-ID ::= 505 ProtocolIE-ID ::= 506 ProtocolIE-ID ::= 507 ProtocolIE-ID ::= 508 ProtocolIE-ID ::= 509 ProtocolIE-ID ::= 510

id-TDD-Support-8PSK	ProtocolIE-ID ::= 512
id-TDD-maxNrDLPhysicalchannels	ProtocolIE-ID ::= 513
id-ExtendedGSMCellIndividualOffset	ProtocolIE-ID ::= 514
id-RL-ParameterUpdateIndicationFDD-RL-InformationList	ProtocolIE-ID ::= 518
id-Primary-CPICH-Usage-For-Channel-Estimation	ProtocolIE-ID ::= 519
id-Secondary-CPICH-Information	ProtocolIE-ID ::= 520
id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 521
id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation	ProtocolIE-ID ::= 522
id-UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH	ProtocolIE-ID ::= 523
id-RL-ParameterUpdateIndicationFDD-RL-Information-Item	ProtocolIE-ID ::= 524
id-Phase-Reference-Update-Indicator	ProtocolIE-ID ::= 525
id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 526
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 527
id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD	ProtocolIE-ID ::= 528
id-RL-ReconfigurationResponseTDD-RL-Information	ProtocolIE-ID ::= 529
id-Satellite-Almanac-Information-ExtItem	ProtocolIE-ID ::= 530
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 533
id-TnlQos	ProtocolIE-ID ::= 534
id-RTLoadValue	ProtocolIE-ID ::= 535
id-NRTLoadInformationValue	ProtocolIE-ID ::= 536
id-CellPortionID	ProtocolIE-ID ::= 537
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 538
id-PrimaryCCPCH-RSCP-Delta	ProtocolIE-ID ::= 539
id-UEMeasurementType	ProtocolIE-ID ::= 540
id-UEMeasurementTimeslotInfoHCR	ProtocolIE-ID ::= 541
id-UEMeasurementTimeslotInfoLCR	ProtocolIE-ID ::= 542
id-UEMeasurementReportCharacteristics	ProtocolIE-ID ::= 543
id-UEMeasurementParameterModAllow	ProtocolIE-ID ::= 544
id-UEMeasurementValueInformation	ProtocolIE-ID ::= 545
id-InterfacesToTraceItem	ProtocolIE-ID ::= 546
id-ListOfInterfacesToTrace	ProtocolIE-ID ::= 547
id-TraceDepth	ProtocolIE-ID ::= 548
id-TraceRecordingSessionReference	ProtocolIE-ID ::= 549
id-TraceReference	ProtocolIE-ID ::= 550
id-UEIdentity	ProtocolIE-ID ::= 551
id-NACC-Related-Data	ProtocolIE-ID ::= 552
id-GSM-Cell-InfEx-Rqst	ProtocolIE-ID ::= 553
id-MeasurementRecoveryBehavior	ProtocolIE-ID ::= 554
id-MeasurementRecoveryReportingIndicator	ProtocolIE-ID ::= 555
id-MeasurementRecoverySupportIndicator	ProtocolIE-ID ::= 556
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 557
id-F-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 558
id-F-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 559
id-MBMS-Bearer-Service-List	ProtocolIE-ID ::= 560
id-MBMS-Bearer-Service-List-InfEx-Rsp	ProtocolIE-ID ::= 561
id-Active-MBMS-Bearer-ServiceFDD	ProtocolIE-ID ::= 562
id-Active-MBMS-Bearer-ServiceTDD	ProtocolIE-ID ::= 563
id-Old-URA-ID	ProtocolIE-ID ::= 564
id-TMGI	ProtocolIE-ID ::= 565
id-TransmissionMode	ProtocolIE-ID ::= 566
id-AffectedUEInformationForMBMS	ProtocolIE-ID ::= 567
id-UE-State	ProtocolIE-ID ::= 568
id-URA-ID	ProtocolIE-ID ::= 569

id-DRNC-ID id-HARO-Preamble-Mode id-UL-DPDCHIndicatorEDCH id-EDPCH-Information id-RL-Specific-EDCH-Information id-EDCH-RL-Indication id-EDCH-FDD-Information id-EDCH-RLSet-Id id-Serving-EDCHRL-Id id-EDCH-FDD-DL-ControlChannelInformation id-EDCH-FDD-InformationResponse id-EDCH-MACdFlows-To-Add id-EDCH-FDD-Information-To-Modify id-EDCH-MACdFlows-To-Delete id-EDPCH-Information-RLReconfRequest-FDD id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd id-MBMS-Bearer-Service-Full-Address id-Initial-DL-DPCH-TimingAdjustment id-Initial-DL-DPCH-TimingAdjustment-Allowed

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ProtocolIE-ID ::= 570 ProtocolIE-ID ::= 571 ProtocolIE-ID ::= 573 ProtocolIE-ID ::= 574 ProtocolIE-ID ::= 575 ProtocolIE-ID ::= 576 ProtocolIE-ID ::= 577 ProtocolIE-ID ::= 578 ProtocolIE-ID ::= 579 ProtocolIE-ID ::= 580 ProtocolIE-ID ::= 581 ProtocolIE-ID ::= 582 ProtocolIE-ID ::= 583 ProtocolIE-ID ::= 584 ProtocolIE-ID ::= 585 ProtocolIE-ID ::= 586 ProtocolIE-ID ::= 587 ProtocolIE-ID ::= 588 ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592

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Consequences if	The obsolete DSCH feature will remain in the specifications.

Clauses affected:	೫ <mark>3.1, 5.1, 5.2</mark>.	
Other specs	Y N X Other core specifications	 第 25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.404, 25.402, 25.402, 25.402, 25.404
		25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435

affected:	XTest specificationsXO&M Specifications	34.108, 34.123
Other comments:	¥	

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3.1 Definitions

Common Transport Channels are defined as transport channels that are shared by several users i.e. RACH, CPCH [FDD], FACH, DSCH [TDD], USCH [TDD] and HS-DSCH.

5 I_{ur} Data Transport for Common Transport Channel Data Streams

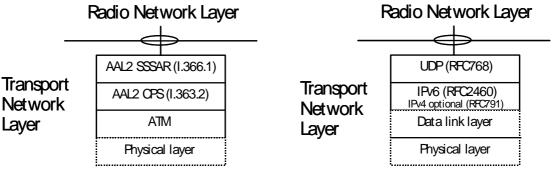
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This clause specifies the transport layers that support Common Channels (FACH, RACH, CPCH [FDD], DSCH<u>[TDD]</u>, USCH [TDD], HS-DSCH, USCH [TDD]) Iur data streams.

There are two options for the transport layer of the Common Channels data streams in Iur and Iub:

- 1) ATM based Transport (ATM transport option)
- 2) IP based Transport (IP transport option)

The following figure shows the protocol stacks of the two options.



Protocol stack for ATM transport option

Protocol stack for IP transport option

Figure 1: Transport network layer for DCH data streams over lur and lub interfaces

5.2 ATM Transport Option

ATM [1], AAL type 2 (ITU-T Recommendations I.363.2 [2] and I.366.1 [3]) is used as the standard transport layer for RACH, CPCH [FDD], FACH, USCH [TDD], DSCH [TDD] and HS-DSCH Iur data streams.

These AAL2 connections are established via the transport signalling protocol described in clause 5.

Figure 1 shows the protocol stack for the transport of RACH, CPCH [FDD], FACH, USCH [TDD], DSCH [TDD] and HS-DSCH Iur data streams using the ATM Transport Option. Service Specific Segmentation and Re-assembly (SSSAR) is used for the segmentation and re-assembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1 [3]).

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	X O&M Specifications			
Other comments:	£			

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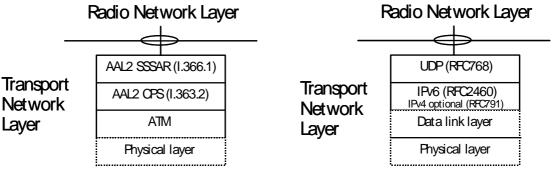
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Other specs

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Title:	Feature clean-up: Removal of DSCH (FDD mode)						
Source:	RAN3						
Work item code:	TEI5		Date: ೫	09/05/2005			
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Consequences if अ not approved:	The obsolete DSCH feature will remain in the specifications.
Clauses affected: #	3.1, 4.1.3, 5, 5.1.4, 5.2.2, 5.2.3, 5.3.1, 6.2.4, 6.2.5.8, 6.3.3.2, 6.3.3.3.
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Other core specifications

affected:	XTest specificationsXO&M Specifications	34.108, 34.123
Other comments:	¥	

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3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions in [5] and the following apply:

Common Transport Channel: it is defined as a transport channel that is shared by several users i.e. DSCH<u>[TDD]</u>, USCH [TDD], CPCH [FDD], RACH, FACH

Transport Connection: service provided by the transport layer and used by Frame Protocol for the delivery of FP PDU

4.1.3 [TDD - USCH]/DSCH Data Streams User Plane Protocol Services [TDD]

[TDD-USCH]/DSCH frame protocol provides the following services:

- Transport of MAC-c/sh SDUs between the SRNC and the DRNC for [TDD-USCH] and DSCH common transport channels.
- Flow Control between MAC-d and MAC-c/sh.

5 Common Transport Channel Data Streams User Plane Procedures

This clause specifies the user plane procedures for Common Transport Channels data streams. Typical related scenarios at Iur interface should be described.

For the user plane of the radio network layer there are five Common Transport Channel frame handling protocols:

- 1. Random Access Channel/Common Packet Channel [FDD] Frame Protocol (RACH/CPCH[FDD] FP) for transport of Iur data streams carried on RACH/CPCH[FDD] on the Uu-interface.
- 2. Forward Access Channel Frame Protocol (FACH FP) for transport of Iur data streams carried on FACH on the Uu-interface.
- 3. Downlink Shared Channel Frame Protocol ([TDD DSCH] FP) for transport of Iur data streams carried on DSCH on the Uu-interface.
- 4. Uplink Shared Channel Frame Protocol ([TDD_- USCH] FP) for transport of Iur data streams carried on USCH on the Uu-interface.
- 5. High Speed Downlink Shared Channel Frame Protocol (HS-DSCH FP) for transport of Iur data streams carried on HS-DSCH on the Uu-interface.

5.1.4 DSCH Data Transfer [TDD]

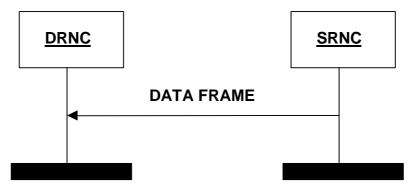


Figure 4: DSCH Data Transfer procedure

When the SRNC has been granted capacity by the DRNC via the DSCH CAPACITY ALLOCATION Control Frame or via the DSCH initial capacity allocation as described in [8] and the SRNC has data waiting to be sent, then the DSCH DATA FRAME is used to transfer the data. If the SRNC has been granted capacity by the DRNC via the DSCH initial capacity allocation as described in [8], this capacity is valid for only the first DSCH DATA FRAME transmission. When data is waiting to be transferred, and a CAPACITY ALLOCATION is received, a DATA FRAME will be transmitted immediately according to allocation received.

Multiple MAC-c/sh SDUs of same length and same priority level (CmCH-PI) may be transmitted in the same DSCH DATA FRAME.

The DSCH DATA FRAME includes a *User Buffer Size* IE to indicate the amount of data pending for the respective UE for the indicated priority level. Within one priority level and size the MAC-c/sh SDUs shall be transmitted by the DRNS on the Uu interface in the same order as they were received from the SRNC.

5.2.2 DSCH Capacity Request [TDD]

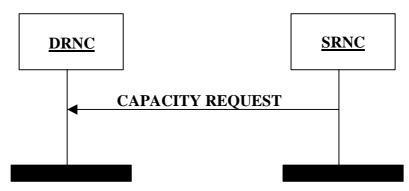


Figure 5: DSCH Capacity Request procedure

The DSCH Capacity Request procedure provides means for the SRNC to request DSCH capacity by indicating the user buffer size in the SRNC for a given priority level.

The SRNC is allowed to reissue the DSCH Capacity Request if no CAPACITY ALLOCATION has been received within an appropriate time threshold.

5.2.3 DSCH Capacity Allocation [TDD]

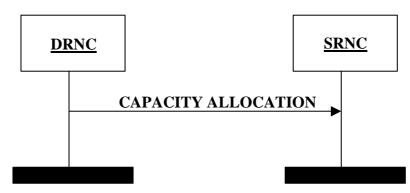


Figure 6: DSCH Capacity Allocation procedure

DSCH Capacity Allocation procedure is generated within the DRNC. It may be generated either in response to a DSCH Capacity Request or at any other time.

The DRNC may use this message to modify the capacity at any time, irrespective of the reported user buffer status.

The DSCH CAPACITY ALLOCATION frame is used by the DRNC to control the user data flow. *Credits* IE indicates the number of MAC-c/sh SDUs that the SRNC is allowed to transmit for the UE and the associated priority level indicated by the *Common Transport Channel Priority Indicator* IE.

The *Maximum*. *MAC- c/sh SDU length*, *Credits*, *Interval* and *Repetition Period* IEs indicates the total amount of capacity granted. Any capacity previously granted is replaced.

If *Credits* IE = 0 (e.g. due to congestion in the DRNC), the SRNC shall immediately stop transmission of MAC-c/sh SDUs. If *Credits* IE = 255, the SRNC can transmit MAC-c/sh SDUs with unlimited capacity.

The IEs used in the DSCH CAPACITY ALLOCATION Control Frame are the *Common Transport Channel Priority Indicator, Credits, Maximum MAC- c/sh SDU Length, Interval* and the *Repetition Period*.

If the Repetition Period IE = *'unlimited repetition period'* it indicates that the SRNC may transmit the specified number of MAC-c/sh SDUs for an unlimited period according to the bounds of *Maximum MAC-c/sh SDU Length*, *Credits* and *Interval* IEs.

5.3 General

5.3.1 DSCH / [TDD - USCH] transport bearer replacement [TDD]

As described in RNSAP [8], transport bearer replacement can be achieved for a DSCH [TDD—or USCH] by using the Synchronised Radio Link Reconfiguration Preparation procedure in combination with the Synchronised Radio Link Reconfiguration Commit procedure. In both cases the following steps can be discerned:

- 1) The new transport bearer is established after which 2 transport bearers exist in parallel.
- 2) The transport channel(s) is/are switched to the new transport bearer.
- 3) The old transport bearer is released.

In step 1), communication on the old transport bearer continues as normal.

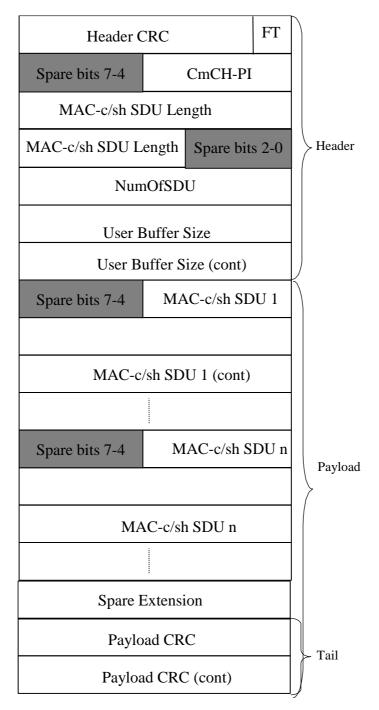
In step 2), the moment of switching is determined as follows:

- The DSCH DATA FRAMEs [TDD—or USCH DATA FRAMEs] shall be transported on the new transport bearer from the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

Starting from this CFN the RNCs shall support all the applicable Common Transport Channels frame protocol procedures on the new transport bearer and no requirements exist regarding support of Common Transport Channels frame protocol procedures on the old transport bearer.

Finally in step 3), the old transport bearer is released.

6.2.4 DSCH Channels [TDD]





6.2.5.8 MAC-c/sh SDU Length

Description: The value of that field indicates the length of every MAC-c/sh SDU in the payload of the [TDD - DSCH, USCH and] FACH, DSCH and [TDD - USCH] DATA FRAME in number of bits.

Value range: {0-5000}.

Field Length: 13 bits.

6.3.3.2 DSCH CAPACITY REQUEST [TDD]

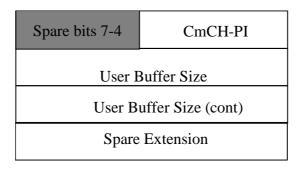


Figure 15: CAPACITY REQUEST payload structure

DSCH Capacity Request is sent for each priority group to indicate the user buffer size. The control frame is sent by the DSCH CAPACITY REQUEST is sent for each priority group to indicate the user buffer size. The control frame is sent by the SRNC when the SRNC considers the user buffer status needs an increased buffer reporting frequency. This may be sent to signal an event, such as, data arrival or user-buffer discard. This control frame is used to improve user-buffer reporting above the level produced by the user-buffer reporting associated with the DSCH DATA FRAMEs.

6.3.3.3 DSCH CAPACITY ALLOCATION [TDD]

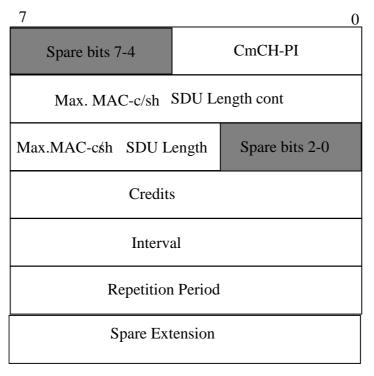


Figure 16: CAPACITY ALLOCATION payload structure

The CAPACITY ALLOCATION Control Frame describes an allocation that the SRNC may use. When the *Credits* IE has a value of 0 it signifies that there is no resources allocated for transmission and to thus stop transmission. When the *Credits* IE has a value of 255, it signifies unlimited capacity for transmission of SDUs. When the *Repetition Period* IE has a value of 0, it signifies that the allocation (*Maximum MAC-c/sh SDU Length, Credits* and *Interval* IEs) can be repeated without limit.

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 Reason for change: #
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 Clauses affected:
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- 1. Random Access Channel/Common Packet Channel [FDD] Frame Protocol (RACH/CPCH[FDD] FP) for transport of Iur data streams carried on RACH/CPCH[FDD] on the Uu-interface.
- 2. Forward Access Channel Frame Protocol (FACH FP) for transport of Iur data streams carried on FACH on the Uu-interface.
- 3. Downlink Shared Channel Frame Protocol ([TDD DSCH FP]) for transport of Iur data streams carried on DSCH on the Uu-interface.
- 4. Uplink Shared Channel Frame Protocol ([TDD_- USCH] FP) for transport of Iur data streams carried on USCH on the Uu-interface.
- 5. High Speed Downlink Shared Channel Frame Protocol (HS-DSCH FP) for transport of Iur data streams carried on HS-DSCH on the Uu-interface.

CR page 6

5.1.4 DSCH Data Transfer [TDD]

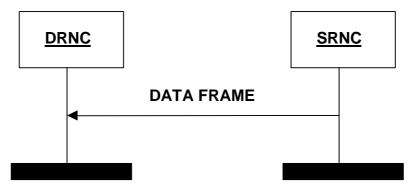


Figure 4: DSCH Data Transfer procedure

When the SRNC has been granted capacity by the DRNC via the DSCH CAPACITY ALLOCATION Control Frame or via the DSCH initial capacity allocation as described in [8] and the SRNC has data waiting to be sent, then the DSCH DATA FRAME is used to transfer the data. If the SRNC has been granted capacity by the DRNC via the DSCH initial capacity allocation as described in [8], this capacity is valid for only the first DSCH DATA FRAME transmission. When data is waiting to be transferred, and a CAPACITY ALLOCATION is received, a DATA FRAME will be transmitted immediately according to allocation received.

Multiple MAC-c/sh SDUs of same length and same priority level (CmCH-PI) may be transmitted in the same DSCH DATA FRAME.

The DSCH DATA FRAME includes a *User Buffer Size* IE to indicate the amount of data pending for the respective UE for the indicated priority level. Within one priority level and size the MAC-c/sh SDUs shall be transmitted by the DRNS on the Uu interface in the same order as they were received from the SRNC.

5.2.2 DSCH Capacity Request [TDD]

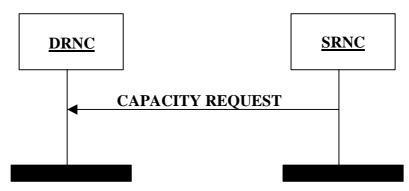


Figure 5: DSCH Capacity Request procedure

The DSCH Capacity Request procedure provides means for the SRNC to request DSCH capacity by indicating the user buffer size in the SRNC for a given priority level.

The SRNC is allowed to reissue the DSCH Capacity Request if no CAPACITY ALLOCATION has been received within an appropriate time threshold.

5.2.3 DSCH Capacity Allocation [TDD]

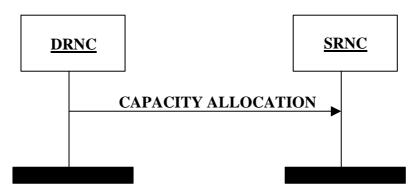


Figure 6: DSCH Capacity Allocation procedure

DSCH Capacity Allocation procedure is generated within the DRNC. It may be generated either in response to a DSCH Capacity Request or at any other time.

The DRNC may use this message to modify the capacity at any time, irrespective of the reported user buffer status.

The DSCH CAPACITY ALLOCATION frame is used by the DRNC to control the user data flow. *Credits* IE indicates the number of MAC-c/sh SDUs that the SRNC is allowed to transmit for the UE and the associated priority level indicated by the *Common Transport Channel Priority Indicator* IE.

The *Maximum*. *MAC- c/sh SDU length*, *Credits*, *Interval* and *Repetition Period* IEs indicates the total amount of capacity granted. Any capacity previously granted is replaced.

If *Credits* IE = 0 (e.g. due to congestion in the DRNC), the SRNC shall immediately stop transmission of MAC-c/sh SDUs. If *Credits* IE = 255, the SRNC can transmit MAC-c/sh SDUs with unlimited capacity.

The IEs used in the DSCH CAPACITY ALLOCATION Control Frame are the *Common Transport Channel Priority Indicator, Credits, Maximum MAC- c/sh SDU Length, Interval* and the *Repetition Period*.

If the Repetition Period IE = *'unlimited repetition period'* it indicates that the SRNC may transmit the specified number of MAC-c/sh SDUs for an unlimited period according to the bounds of *Maximum MAC-c/sh SDU Length*, *Credits* and *Interval* IEs.

5.3 General

5.3.1 DSCH / [TDD - USCH] transport bearer replacement [TDD]

As described in RNSAP [8], transport bearer replacement can be achieved for a DSCH [TDD—or USCH] by using the Synchronised Radio Link Reconfiguration Preparation procedure in combination with the Synchronised Radio Link Reconfiguration Commit procedure. In both cases the following steps can be discerned:

- 1) The new transport bearer is established after which 2 transport bearers exist in parallel.
- 2) The transport channel(s) is/are switched to the new transport bearer.
- 3) The old transport bearer is released.

In step 1), communication on the old transport bearer continues as normal.

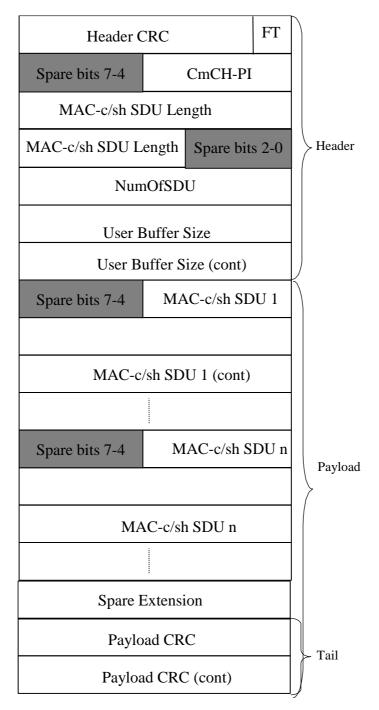
In step 2), the moment of switching is determined as follows:

- The DSCH DATA FRAMEs [TDD—or USCH DATA FRAMEs] shall be transported on the new transport bearer from the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

Starting from this CFN the RNCs shall support all the applicable Common Transport Channels frame protocol procedures on the new transport bearer and no requirements exist regarding support of Common Transport Channels frame protocol procedures on the old transport bearer.

Finally in step 3), the old transport bearer is released.

6.2.4 DSCH Channels [TDD]





6.2.5.8 MAC-c/sh SDU Length

Description: The value of that field indicates the length of every MAC-c/sh SDU in the payload of the [TDD - DSCH, USCH and] FACH, DSCH and [TDD - USCH] DATA FRAME in number of bits.

Value range: {0-5000}.

Field Length: 13 bits.

6.3.3.2 DSCH CAPACITY REQUEST [TDD]

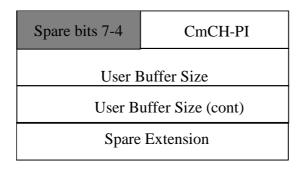


Figure 15: CAPACITY REQUEST payload structure

DSCH Capacity Request is sent for each priority group to indicate the user buffer size. The control frame is sent by the DSCH CAPACITY REQUEST is sent for each priority group to indicate the user buffer size. The control frame is sent by the SRNC when the SRNC considers the user buffer status needs an increased buffer reporting frequency. This may be sent to signal an event, such as, data arrival or user-buffer discard. This control frame is used to improve user-buffer reporting above the level produced by the user-buffer reporting associated with the DSCH DATA FRAMEs.

6.3.3.3 DSCH CAPACITY ALLOCATION [TDD]

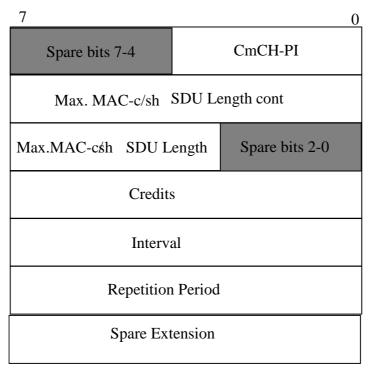


Figure 16: CAPACITY ALLOCATION payload structure

The CAPACITY ALLOCATION Control Frame describes an allocation that the SRNC may use. When the *Credits* IE has a value of 0 it signifies that there is no resources allocated for transmission and to thus stop transmission. When the *Credits* IE has a value of 255, it signifies unlimited capacity for transmission of SDUs. When the *Repetition Period* IE has a value of 0, it signifies that the allocation (*Maximum MAC-c/sh SDU Length, Credits* and *Interval* IEs) can be repeated without limit.

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	§ 6.3.3.9.1 & § 6.3.3.9.2.								
	R0: DSCH is removed from the specifications for the FDD mode.								
	Impact Analysis:								
	Impact assessment towards the previous version of the specification (same								
	release):								
	This CR has isolated impact with the previous version of the specification (same								
	release) because it affects only one function: DSCH for FDD mode.								
	This CR has an no impact for implementations not supporting this feature.								
	For implementations supporting the "DSCH for FDD mode" feature, it has an								
	impact under functional and protocol point of view.								
	The impact can be considered isolated because the change affects only one								
	system function namely the DSCH for FDD mode.								
Consequences if	# The obsolete DSCH feature will remain in the specifications.								
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Clauses affected:	# 4.1, 5.2, 5.7, 5.8, 6.3.2.3, 6.3.3.1.2, 6.3.3.8.1, 6.3.3.8.2, 6.3.3.8.3, 6.3.3.8.4,								
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How to create CRs using this form:

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

4.1 DCH FP services

DCH frame protocol provides the following services:

- Transport of TBS across Iub and Iur interface.
- Transport of outer loop power control information between the SRNC and the Node B.
- Support of transport channel synchronisation mechanism.
- Support of node synchronization mechanism.
- [3.84 Mcps TDD Transfer of Rx timing deviation from the Node B to the SRNC.]
- Transfer of radio interface parameters from the SRNC to the Node B.

5.2 Timing Adjustment

The Timing Adjustment procedure is used to keep the synchronization of the DCH data stream in DL direction, i.e to ensure that the Node B receives the DL frames in an appropriate time for the transmission of the data in the air interface.

SRNC always includes the Connection Frame Number (CFN) to all DCH DL DATA FRAMEs. The same applies to the DSCH TFCI SIGNALLING control frame.

If a DL DATA FRAME or a DSCH TFCI SIGNALLING control frame arrives outside the arrival window defined in the Node B, the Node B shall send a TIMING ADJUSTMENT control frame, containing the measured ToA and the CFN value of the received DL DATA FRAME.

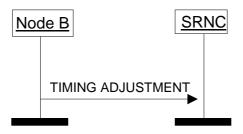


Figure 3: Timing Adjustment procedure

The arrival window and the time of arrival are defined as follows:

Time of Arrival Window Endpoint (ToAWE): ToAWE represents the time point by which the DL data shall arrive to the Node B from Iub. The ToAWE is defined as the amount of milliseconds before the last time point from which a timely DL transmission for the identified CFN would still be possible taking into account the Node B internal delays. ToAWE is set via control plane. If data does not arrive before ToAWE a TIMING ADJUSTMENT control frame shall be sent by Node B.

Time of Arrival Window Startpoint (ToAWS): ToAWS represents the time after which the DL data shall arrive to the Node B from Iub. The ToAWS is defined as the amount of milliseconds from the ToAWE. ToAWS is set via control plane. If data arrives before ToAWS a TIMING ADJUSTMENT control frame shall be sent by Node B.

Time of Arrival (ToA): ToA is the time difference between the end point of the DL arrival window (ToAWE) and the actual arrival time of DL frame for a specific CFN. A positive ToA means that the frame is received before the ToAWE, a negative ToA means that the frame is received after the ToAWE.

The general overview on the Timing Adjustment procedure is reported in [2].

5.7 DSCH TFCI Signalling [FDD]

This procedure is used in order to signal to the Node B the TFCI (field 2). This allows the Node B to build the TFCI word(s) which have to be transmitted on the DPCCH. A transport bearer of any DCH directed to this same UE may be employed for transport over the I_{ub}/I_{ur} Void.

The procedure consists in sending the DSCH TFCI SIGNALLING control frame from the SRNC to the Node B. The frame contains the TFCI (field 2) and the correspondent CFN. The DSCH TFCI SIGNALLING control frame is sent once every Uu frame interval (10 ms) for as long as there is DSCH data for that UE to be transmitted in the associated PDSCH Uu frame. In the event that the Node B does not receive a DSCH TFCI SIGNALLING control frame then the Node B shall infer that no DSCH data is to be transmitted to the UE on the associated PDSCH Uu frame and will build the TFCI word(s) accordingly.

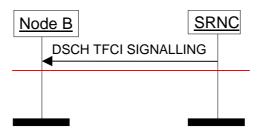


Figure 8: DSCH TFCI Signalling procedure

5.8 Radio Interface Parameter Update [FDD]

This procedure is used to update radio interface parameters which are applicable to all RL's for the concerning UE. Both synchronised and unsynchronised parameter updates are supported.

The procedure consists of a RADIO INTERFACE PARAMETER UPDATE control frame sent by the SRNC to the Node B.

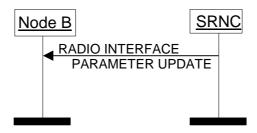


Figure 9: Radio Interface Parameter Update procedure

If the RADIO INTERFACE PARAMETER UPDATE control frame contains a valid TPC power offset value, the Node B shall apply the newly provided TPC PO in DL.

If the frame contains a valid DPC mode value, the Node B shall apply the newly provided value in DL power control. If the frame contains valid TFCI PO_primary parameter and cell is decided to be primary, the Node B shall apply the newly provided value in DL TFCI power control. If the frame contains valid TFCI PO parameter, the Node B shall apply the newly provided value in DL TFCI power control.

The new values shall be applied as soon as possible in case no valid CFN is included or from the indicated CFN.

If the frame contains a valid Multiple RL Sets Indicator value, the Node B may use the newly provided value in Multiple RL Sets Indicator whenever the Node B loses UL synchronization on a RL Set after initial UL synchronization as described in [12].

6.3.2 Header structure of the control frames

6.3.2.1 Frame CRC

Description: It is the result of the CRC applied to the remaining part of the frame, i.e. from bit 0 of the first byte of the header (the *FT* IE) to bit 0 of the last byte of the payload, with the corresponding generator polynomial: $G(D) = D^7 + D^6 + D^2 + 1$. See subclause 7.2.

Field Length: 7 bits.

6.3.2.2 Frame Type (FT)

Description: Describes if it is a control frame or a data frame.

Value range: {0=data, 1=control}.

Field Length: 1 bit.

6.3.2.3 Control Frame Type

Description: Indicates the type of the control information (information elements and length) contained in the payload.

Value: The values are defined in table 1.

Table 1

Control frame type	Coding
OUTER LOOP POWER CONTROL	0000 0001
TIMING ADJUSTMENT	0000 0010
DL SYNCHRONISATION	0000 0011
UL SYNCHRONISATION	0000 0100
DSCH TFCI SIGNALLING Reserved	0000 0101
Value	
DL NODE SYNCHRONISATION	0000 0110
UL NODE SYNCHRONISATION	0000 0111
RX TIMING DEVIATION	0000 1000
RADIO INTERFACE PARAMETER	0000 1001
UPDATE	
TIMING ADVANCE	0000 1010

Field length: 8 bits.

The "Reserved Value" for the *Control Frame Type* IE shall not be used by the SRNC. A control frame whose *Control Frame Type* IE is set to the "Reserved Value" shall be ignored by the Node B.

6.3.3 Payload structure and information elements

6.3.3.1 TIMING ADJUSTMENT

6.3.3.1.1 Payload structure

Figure 14 shows the structure of the payload when control frame is used for the timing adjustment.

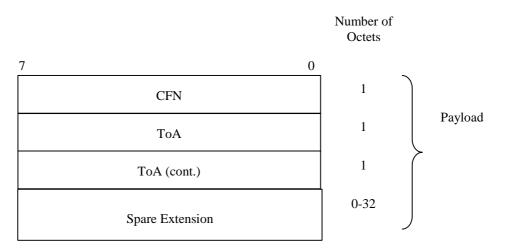


Figure 14: Structure of the payload for the TIMING ADJUSTMENT control frame

6.3.3.1.2 CFN

Description: The CFN value is extracted from the corresponding DL DATA FRAME or DSCH TFCI SIGNALLING control frame.

Value range: As defined in subclause 6.2.4.3.

Field length: 8 bits.

6.3.3.1.3 Time of Arrival (ToA)

Description: Time difference between the arrival of the DL frame with respect to ToAWE (based on the CFN value in the frame).

Value range: {-1280, +1279.875 msec}.

Granularity: 125 µs.

Field length: 16 bits.

6.3.3.1.4 Spare Extension

Description: Indicates the location where new IEs can in the future be added in a backward compatible way.

Field length: 0-32 octets.

6.3.3.8 DSCH TFCI SIGNALLING [FDD]

6.3.3.8.1 Payload structure

The figure 21 shows the structure of the payload when the control frame is used for signalling TFCI (field 2) bits Void.

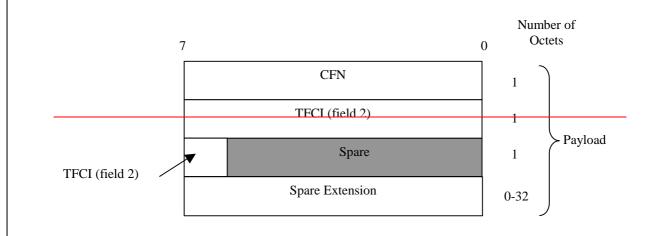


Figure 21: Structure of the payload for the DSCH TFCI SIGNALLING control frame

6.3.3.8.2 TFCI (field 2)

Description: TFCI (field 2) is as described in [4], it takes the same values as the TFCI(field 2) which is transmitted over the Uu interface.

Value range: {0 1023}

Field length: 10 bitsVoid.

6.3.3.8.3 Spare Extension

The *Spare Extension* IE is described in subclause 6.3.3.1.4 Void.

6.3.3.8.4 CFN

Description: Indicator when TFCI(field 2) shall be transmitted on downlink.

Value range: As defined in subclause 6.2.4.3.

Field length: 8 bits Void.

6.3.3.9 RADIO INTERFACE PARAMETER UPDATE [FDD]

6.3.3.9.1 Payload structure

The figure 22 shows the structure of the payload when the control frame is used for signalling radio interface parameter updates.

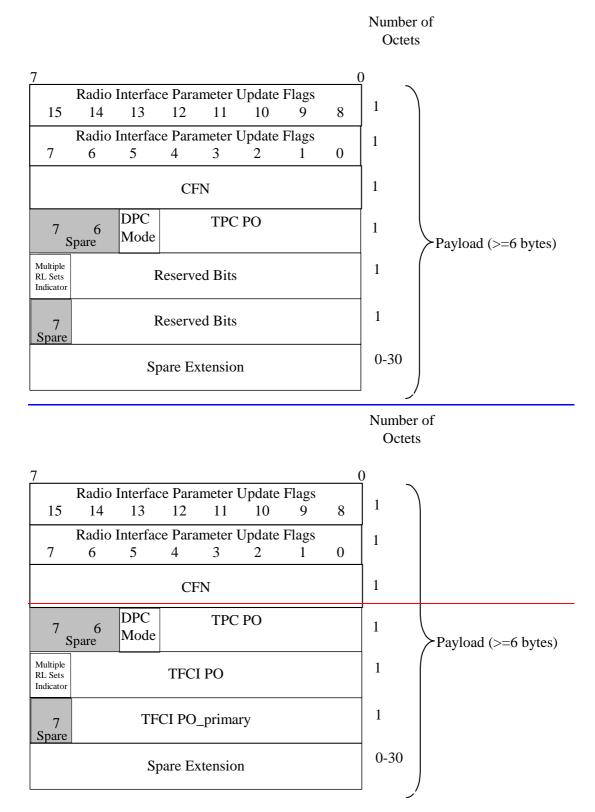


Figure 22: Structure of the payload for the RADIO INTERFACE PARAMETER UPDATE control frame

6.3.3.9.2 Radio Interface Parameter Update flags

Description: Contains flags indicating which information is valid in this control frame.

Value range:

Bit 0: Indicates if the 3rd byte of the control frame payload contains a valid CFN (1) or not (0);

Bit 1: Indicates if the 4th byte (bits 0-4) of the control frame payload contains a valid TPC PO (1) or not (0);

Bit 2: Indicates if the 4th byte (bit 5) of the control frame payload contains a valid DPC mode (1) or not (0);

Bit 3: Indicates if the 5th byte (bit 0 6) of the control frame payload contains a valid TFCI PO (1) or not (0)<u>Reserved</u> bit.;

Bit 4: Indicates if the 6th-byte (bit 0-6) of the control frame payload contains a valid TFCI PO_primary (1) or not (0)Reserved bit.;

Bit 5: Indicates if the 5th byte (bit 7) of the control frame payload contains a valid Multiple RL Sets Indicator (1) or not (0);

Bit 6-15: Set to (0): reserved in this user plane revision. Any indicated flags shall be ignored by the receiver.

Reserved bits shall be set to 0 by the SRNC and ignored by the Node B.

Field length: 16 bits.

6.3.3.9.3 TPC Power Offset (TPC PO)

Description: Power offset to be applied in the DL between the DPDCH information and the TPC bits on the DPCCH as specified in the clause 5.2 of [12].

Value range: {0-7.75 dB}.

Granularity: 0.25 dB.

Field length: 5 bits.

6.3.3.9.4 Spare Extension

The Spare Extension IE is described in subclause 6.3.3.1.4.

6.3.3.9.4A CFN

Description: The CFN value indicates when the presented parameters shall be applied.

Value range: As defined in subclause 6.2.4.3.

Field length: 8 bits.

6.3.3.9.5 DPC Mode

Description: DPC mode to be applied in the UL.

Value range: {0,1}.

The DPC mode shall be applied as specified in [12].

Field length: 1 bit.

6.3.3.9.6 TFCI Power Offset (TFCI PO)

Description: Power offset to be applied in the DL between the DPDCH information and the TFCI bits on the DPCCH.

Value range: {0 31.75 dB}.

Granularity: 0.25 dB.

Field length: 7 bitsVoid.

6.3.3.9.7 TFCI Power Offset for primary cell (TFCI PO_primary)

Description: Power offset to be applied in the DL between the DPDCH information and the TFCI bits on the DPCCH when cell is decided to be primary. The primary status shall be determined as specified in [4].

Value range: {0 31.75 dB}.

Granularity: 0.25 dB.

Field length: 7 bitsVoid.

6.3.3.9.8 Multiple RL Sets Indicator

Description: Multiple RL Sets Indicator indicates whether the UE has several RL Sets or not.

Value range: {0=UE has only one RL Set, 1=UE has several RL Sets}.

Field length: 1 bit.

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 In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.

 Summary of change: #
 R1: TFCI PO & TFCI PO Primary fields are changed to Reserved Bits in § 6.3.3.9.1 & § 6.3.3.9.2.

 R0: DSCH is removed from the specifications for the FDD mode.

 Consequences if not approved:
 #

 The obsolete DSCH feature will remain in the specifications.

 Clauses affected:
 #

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						25.302, 25.303, 25.306, 25.321, 25.331,
						25.401, 25.402, 25.420, 25.423, 25.424,
						25.425, 25.427, 25.430, 25.433, 25.434,
						25.435
affected:		Χ		Test specifications		34.108, 34.123
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Other comments:	£					

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- 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.

4.1 DCH and E-DCH FP services

DCH frame protocol provides the following services:

- Transport of TBS across Iub and Iur interface.
- Transport of outer loop power control information between the SRNC and the Node B.
- Support of transport channel synchronisation mechanism.
- Support of node synchronization mechanism.
- [3.84 Mcps TDD Transfer of Rx timing deviation from the Node B to the SRNC.]
- Transfer of radio interface parameters from the SRNC to the Node B.

[FDD –

E-DCH frame protocol provides the following services:

- Transport of Mac-es PDUs across Iub and Iur interface from Node B to SRNC.
- Transport of outer loop power control information between the SRNC and the Node B.]

5.2 Timing Adjustment

The Timing Adjustment procedure is used to keep the synchronization of the DCH data stream in DL direction, i.e to ensure that the Node B receives the DL frames in an appropriate time for the transmission of the data in the air interface.

SRNC always includes the Connection Frame Number (CFN) to all DCH DL DATA FRAMEs. The same applies to the DSCH TFCI SIGNALLING control frame.

If a DL DATA FRAME or a DSCH TFCI SIGNALLING control frame arrives outside the arrival window defined in the Node B, the Node B shall send a TIMING ADJUSTMENT control frame, containing the measured ToA and the CFN value of the received DL DATA FRAME.

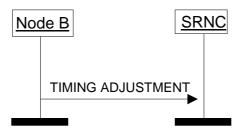


Figure 3: Timing Adjustment procedure

The arrival window and the time of arrival are defined as follows:

Time of Arrival Window Endpoint (ToAWE): ToAWE represents the time point by which the DL data shall arrive to the Node B from Iub. The ToAWE is defined as the amount of milliseconds before the last time point from which a timely DL transmission for the identified CFN would still be possible taking into account the Node B internal delays. ToAWE is set via control plane. If data does not arrive before ToAWE a TIMING ADJUSTMENT control frame shall be sent by Node B.

Time of Arrival Window Startpoint (ToAWS): ToAWS represents the time after which the DL data shall arrive to the Node B from Iub. The ToAWS is defined as the amount of milliseconds from the ToAWE. ToAWS is set via control plane. If data arrives before ToAWS a TIMING ADJUSTMENT control frame shall be sent by Node B.

Time of Arrival (ToA): ToA is the time difference between the end point of the DL arrival window (ToAWE) and the actual arrival time of DL frame for a specific CFN. A positive ToA means that the frame is received before the ToAWE, a negative ToA means that the frame is received after the ToAWE.

The general overview on the Timing Adjustment procedure is reported in [2].

5.7 DSCH TFCI Signalling [FDD]

This procedure is used in order to signal to the Node B the TFCI (field 2). This allows the Node B to build the TFCI word(s) which have to be transmitted on the DPCCH. A transport bearer of any DCH directed to this same UE may be employed for transport over the I_{ub}/I_{ur} Void.

The procedure consists in sending the DSCH TFCI SIGNALLING control frame from the SRNC to the Node B. The frame contains the TFCI (field 2) and the correspondent CFN. The DSCH TFCI SIGNALLING control frame is sent once every Uu frame interval (10 ms) for as long as there is DSCH data for that UE to be transmitted in the associated PDSCH Uu frame. In the event that the Node B does not receive a DSCH TFCI SIGNALLING control frame then the Node B shall infer that no DSCH data is to be transmitted to the UE on the associated PDSCH Uu frame and will build the TFCI word(s) accordingly.

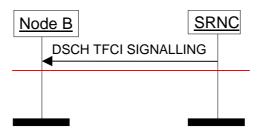


Figure 8: DSCH TFCI Signalling procedure

5.8 Radio Interface Parameter Update [FDD]

This procedure is used to update radio interface parameters which are applicable to all RL's for the concerning UE. Both synchronised and unsynchronised parameter updates are supported.

The procedure consists of a RADIO INTERFACE PARAMETER UPDATE control frame sent by the SRNC to the Node B.

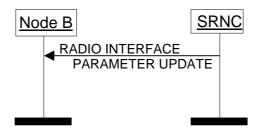


Figure 9: Radio Interface Parameter Update procedure

If the RADIO INTERFACE PARAMETER UPDATE control frame contains a valid TPC power offset value, the Node B shall apply the newly provided TPC PO in DL.

If the frame contains a valid DPC mode value, the Node B shall apply the newly provided value in DL power control. If the frame contains valid TFCI PO_primary parameter and cell is decided to be primary, the Node B shall apply the newly provided value in DL TFCI power control. If the frame contains valid TFCI PO parameter, the Node B shall apply the newly provided value in DL TFCI power control.

The new values shall be applied as soon as possible in case no valid CFN is included or from the indicated CFN.

If the frame contains a valid Multiple RL Sets Indicator value, the Node B may use the newly provided value in Multiple RL Sets Indicator whenever the Node B loses UL synchronization on a RL Set after initial UL synchronization as described in [12].

6.3.2 Header structure of the control frames

6.3.2.1 Frame CRC

Description: It is the result of the CRC applied to the remaining part of the frame, i.e. from bit 0 of the first byte of the header (the *FT* IE) to bit 0 of the last byte of the payload, with the corresponding generator polynomial: $G(D) = D^7 + D^6 + D^2 + 1$. See subclause 7.2.

Field Length: 7 bits.

6.3.2.2 Frame Type (FT)

Description: Describes if it is a control frame or a data frame.

Value range: {0=data, 1=control}.

Field Length: 1 bit.

6.3.2.3 Control Frame Type

Description: Indicates the type of the control information (information elements and length) contained in the payload.

Value: The values are defined in table 1.

Table 1

Control frame type	Coding
OUTER LOOP POWER CONTROL	0000 0001
TIMING ADJUSTMENT	0000 0010
DL SYNCHRONISATION	0000 0011
UL SYNCHRONISATION	0000 0100
DSCH TFCI SIGNALLINGReserved	0000 0101
<u>Value</u>	
DL NODE SYNCHRONISATION	0000 0110
UL NODE SYNCHRONISATION	0000 0111
RX TIMING DEVIATION	0000 1000
RADIO INTERFACE PARAMETER	0000 1001
UPDATE	
TIMING ADVANCE	0000 1010

Field length: 8 bits.

The "Reserved Value" for the *Control Frame Type* IE shall not be used by the SRNC. A control frame whose *Control Frame Type* IE is set to the "Reserved Value" shall be ignored by the Node B.

6.3.3 Payload structure and information elements

6.3.3.1 TIMING ADJUSTMENT

6.3.3.1.1 Payload structure

Figure 14 shows the structure of the payload when control frame is used for the timing adjustment.

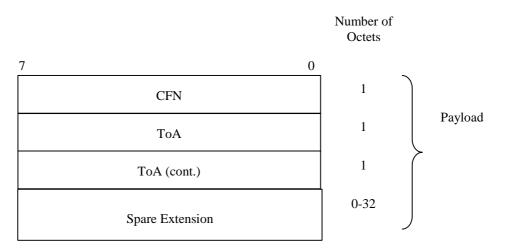


Figure 14: Structure of the payload for the TIMING ADJUSTMENT control frame

6.3.3.1.2 CFN

Description: The CFN value is extracted from the corresponding DL DATA FRAME or DSCH TFCI SIGNALLING control frame.

Value range: As defined in subclause 6.2.4.3.

Field length: 8 bits.

6.3.3.1.3 Time of Arrival (ToA)

Description: Time difference between the arrival of the DL frame with respect to ToAWE (based on the CFN value in the frame).

Value range: {-1280, +1279.875 msec}.

Granularity: 125 µs.

Field length: 16 bits.

6.3.3.1.4 Spare Extension

Description: Indicates the location where new IEs can in the future be added in a backward compatible way.

Field length: 0-32 octets.

6.3.3.8 DSCH TFCI SIGNALLING [FDD]

6.3.3.8.1 Payload structure

The figure 21 shows the structure of the payload when the control frame is used for signalling TFCI (field 2) bits Void.

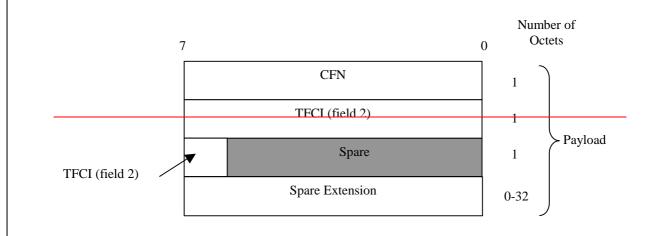


Figure 21: Structure of the payload for the DSCH TFCI SIGNALLING control frame

6.3.3.8.2 TFCI (field 2)

Description: TFCI (field 2) is as described in [4], it takes the same values as the TFCI(field 2) which is transmitted over the Uu interface.

Value range: {0 1023}

Field length: 10 bitsVoid.

6.3.3.8.3 Spare Extension

The *Spare Extension* IE is described in subclause 6.3.3.1.4 Void.

6.3.3.8.4 CFN

Description: Indicator when TFCI(field 2) shall be transmitted on downlink.

Value range: As defined in subclause 6.2.4.3.

Field length: 8 bits Void.

6.3.3.9 RADIO INTERFACE PARAMETER UPDATE [FDD]

6.3.3.9.1 Payload structure

The figure 22 shows the structure of the payload when the control frame is used for signalling radio interface parameter updates.

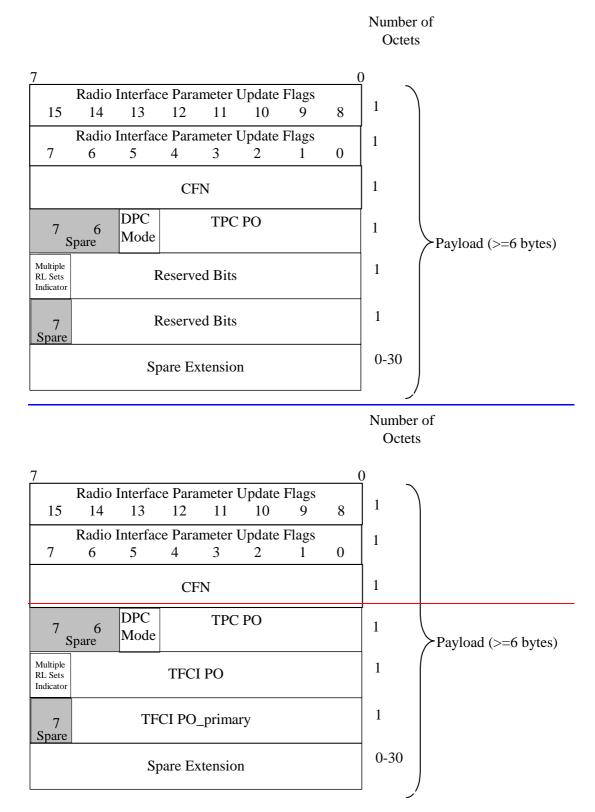


Figure 22: Structure of the payload for the RADIO INTERFACE PARAMETER UPDATE control frame

6.3.3.9.2 Radio Interface Parameter Update flags

Description: Contains flags indicating which information is valid in this control frame.

Value range:

Bit 0: Indicates if the 3rd byte of the control frame payload contains a valid CFN (1) or not (0);

Bit 1: Indicates if the 4th byte (bits 0-4) of the control frame payload contains a valid TPC PO (1) or not (0);

Bit 2: Indicates if the 4th byte (bit 5) of the control frame payload contains a valid DPC mode (1) or not (0);

Bit 3: Indicates if the 5th byte (bit 0 6) of the control frame payload contains a valid TFCI PO (1) or not (0)<u>Reserved</u> bit;

Bit 4: Indicates if the 6th-byte (bit 0-6) of the control frame payload contains a valid TFCI PO_primary (1) or not (0)Reserved bit;

Bit 5: Indicates if the 5th byte (bit 7) of the control frame payload contains a valid Multiple RL Sets Indicator (1) or not (0);

Bit 6-15: Set to (0): reserved in this user plane revision. Any indicated flags shall be ignored by the receiver.

Reserved bits shall be set to 0 by the SRNC and ignored by the Node B.

Field length: 16 bits.

6.3.3.9.3 TPC Power Offset (TPC PO)

Description: Power offset to be applied in the DL between the DPDCH information and the TPC bits on the DPCCH as specified in the clause 5.2 of [12].

Value range: {0-7.75 dB}.

Granularity: 0.25 dB.

Field length: 5 bits.

6.3.3.9.4 Spare Extension

The Spare Extension IE is described in subclause 6.3.3.1.4.

6.3.3.9.4A CFN

Description: The CFN value indicates when the presented parameters shall be applied.

Value range: As defined in subclause 6.2.4.3.

Field length: 8 bits.

6.3.3.9.5 DPC Mode

Description: DPC mode to be applied in the UL.

Value range: {0,1}.

The DPC mode shall be applied as specified in [12].

Field length: 1 bit.

6.3.3.9.6 TFCI Power Offset (TFCI PO)

Description: Power offset to be applied in the DL between the DPDCH information and the TFCI bits on the DPCCH.

Value range: {0 31.75 dB}.

Granularity: 0.25 dB.

Field length: 7 bitsVoid.

6.3.3.9.7 TFCI Power Offset for primary cell (TFCI PO_primary)

Description: Power offset to be applied in the DL between the DPDCH information and the TFCI bits on the DPCCH when cell is decided to be primary. The primary status shall be determined as specified in [4].

Value range: {0 31.75 dB}.

Granularity: 0.25 dB.

Field length: 7 bitsVoid.

6.3.3.9.8 Multiple RL Sets Indicator

Description: Multiple RL Sets Indicator indicates whether the UE has several RL Sets or not.

Value range: {0=UE has only one RL Set, 1=UE has several RL Sets}.

Field length: 1 bit.

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Proposed chang	e <i>affects:</i> UICC apps೫ ME Radio Acc	ess Networ	k 🗙 Core Network 📃
Title:	Feature clean-up: Removal of DSCH (FDD mode)		
Source:	RAN3		
Work item code:	業 TEI5	<i>Date:</i> ೫	09/05/2005
Category:	 C one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>. 	Use <u>one</u> of 1 Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-5 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)

Reason for change: ೫	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.				
Summary of change: ೫	DSCH is removed from the specifications for the FDD mode.				
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.				
Consequences if % not approved:	The obsolete DSCH feature will remain in the specifications.				
Clauses affected: ೫	4.4.6, 4.4.9, 4.5.1, 5.2.7, 6.1, 6.2.1, 6.2.2, 6.2.3.3, 6.2.3.8, 6.2.3.9, 6.2.3.11, 6.2.4.4.				
Other specs भ	Y N X Other core specifications \$\$\mathbf{x}\$ 25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434,				

affected:	X Test specifications X O&M Specifications	25.435 34.108, 34.123
Other comments: अ		For implementation of this CR jointly with e", it is suggested to use the "cleaned up" form the changes approved in CR xxxx

How to create CRs using this form:

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

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

4.4.6 Iub DSCH data stream [TDD]

The Iub interface provides the means for transport of downlink shared channel, DSCH, data frames between RNC and Node B. An Iub DSCH data stream corresponds to the data carried on one DSCH transport channel for one UE. A UE may have multiple DSCH data streams.

4.4.7 Iub USCH data stream [TDD]

The Iub interface provides the means for transport of uplink shared channel, USCH, data frames between Node B and RNC. An Iub USCH data stream corresponds to the data carried on one USCH transport channel for one UE. A UE may have multiple USCH data streams.

4.4.8 Iub PCH data stream

The Iub interface provides the means for transport of PCH transport frames between RNC and Node B. An Iub PCH data stream corresponds to the data carried on one PCH transport channel.

4.4.9 Iub FDD TFCI2 data stream

The Iub interface provides the means for transport of control frames between DRNC and Node B. An Iub TFCI2 data stream corresponds to the TFCI2 signalling for one Node B communication context that is using one or more DSCH transport channels. A Node B communication context may be assigned up to one TFCI2 data stream<u>Void</u>.

4.5 Iub Interface Characteristics

4.5.1 Mapping of lub data streams

- **DCH** One Iub DCH data stream is carried on one transport bearer. For each DCH data stream a transport bearer must be established over Iub, except in the case of coordinated DCHs in which case a set of coordinated DCHs are multiplexed onto the same transport bearer.
- [FDD CPCH One Iub CPCH data stream is carried on one transport bearer. For each CPCH in a cell, an Iub CPCH data stream must be established over the Iub interface.]
- **RACH** One Iub RACH data stream is carried on one transport bearer. For each RACH in a cell, a transport bearer must be established over the Iub interface.
- **FACH** One Iub FACH data stream is carried on one transport bearer. For each FACH in a cell, a transport bearer must be established over the Iub Interface.
- **[TDD DSCH** One Iub DSCH data stream is carried on one transport bearer. For each DSCH data stream, a transport bearer must be established over the Iub interface.]
- **HS-DSCH** One Iub HS-DSCH data stream is carried on one transport bearer. For each HS-DSCH data stream, a transport bearer must be established over the Iub interface.
- [FDD TFCI2 One lub TFCI2 data stream is carried on one transport bearer.]
- [TDD USCH One Iub USCH data stream is carried on one transport bearer. For each USCH data stream, a transport bearer must be established over the Iub interface.]
- **PCH** One Iub PCH data stream is carried on one transport bearer.

5.2.7 Traffic management of Shared Channels [TDD]

The shared channels shall be controlled from the RNC. This is typically the control of the <u>TDD</u>DSCH channels and the TDD USCH channels.

6 Node B logical Model over lub

6.1 Overview

The model described in figure 2 shows the Node B as seen from the controlling RNC. The model includes:

- The logical resources provided by Node B to UTRAN (via its Controlling RNC) depicted as "cells" which include the physical channel resources DPCH, [TDD PDSCH; and PUSCH];
- The dedicated channels which have been established on Node B;
- The common transport channels that Node B provides to the RNC.

The procedures for controlling the connections between radio links and Iub DCH data ports are sent from the RNC to the Node B via the Communication Control Ports.

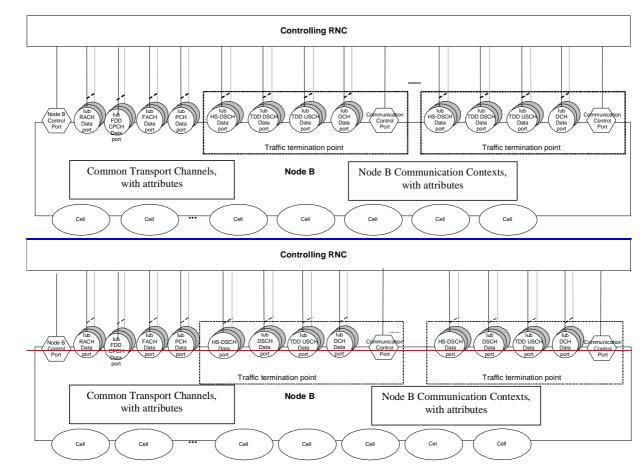


Figure 2: Logical Model of Node B

6.2 Elements of the logical model

6.2.1 Node B Communication Contexts for Dedicated and Shared Channels

A Node B Communication Context corresponds to all the dedicated resources that are necessary for a user in dedicated mode and using dedicated and/or shared channels as restricted to a given Node B. [TDD - The Node B Communication Context also exists for users in Cell_FACH mode (i.e. non-dedicated mode) provided a USCH and/or DSCH and/or HS-DSCH has been allocated to these users.]

There are a number of Node B Communication Contexts inside a given Node B.

The attributes to a Node B Communication Context shall include the following (not exhaustive):

- The list of Cells where dedicated and/or shared physical resources are used.
- The list of DCH which are mapped on the dedicated physical resources for that Node B Communication Context.
- [TDD The list of DSCH and USCH [TDD] which are used by the respective UE.]
- The list of HS-DSCH MAC-d flows which are used by the respective UE.
- The complete DCH characteristics for each DCH, identified by its DCH-identifier [4].
- [TDD The complete Transport Channel characteristics for each DSCH and USCH, identified by its Shared Channel identifier [4].]
- The complete HS-DSCH characteristics for each HS-DSCH MAC-d Flow, identified by its HS-DSCH MAC-d Flow identifier [4].
- The list of Iub DCH Data Ports.
- [TDD The list of Iub DSCH Data ports and Iub USCH data ports.]
- The list of Iub HS-DSCH Data ports.
- For each Iub DCH Data Port, the corresponding DCH and cells which are carried on this data port.
- [TDD For each Iub DSCH and USCH data port, the corresponding DSCH or USCH and cell which serves that DSCH or USCH.]
- For each Iub HS-DSCH data port, the corresponding HS-DSCH data stream and cell which serves that HS-DSCH data stream.
- Physical layer parameters (outer loop power control, etc).

6.2.2 Common Transport Channels

Common Transport Channels are defined in [9]. A Common Transport Channel is configured in the Node B, on request of the CRNC.

The BCH is carried directly on the Node B control port using NBAP procedures. This Common Channel will not be mapped to an individual data port.

The RACH has an associated Iub RACH Data Port and the FACH has an associated Iub FACH Data Port.

[FDD - The CPCH has an associated Iub CPCH Data Port.]

[TDD - The Iub DSCH data port is associated to one DSCH and to one Node B Communication Context.]

[TDD - the Iub USCH data port is associated to one USCH and to one Node B Communication Context.]

The attributes of a Common transport channel shall include (not exhaustive):

- Type (RACH, CPCH [FDD], FACH, DSCH [TDD], USCH [TDD], PCH).
- Associated Iub RACH Data Port for a RACH, Iub CPCH Data Port for a CPCH [FDD], Iub FACH Data Port for a FACH, Iub PCH Data Port for the PCH.

- Physical parameters.

[TDD - The DSCHs used by one UE are multiplexed to one or several CCTrCHs where each CCTrCH is mapped to a set of PDSCH ("PDSCH Set"). These PDSCH Sets are included in the Common Transport Channel data base. The same applies for the USCHs and the corresponding PUSCH Sets.]

6.2.3 Transport network logical resources

6.2.3.1 Node B Control Port

The Node B Control Port is used to exchange the signalling information for the logical O&M of Node B, the creation of Node B Communication Contexts, the configuration of the common transport channels that Node B provides in a given cell, PCH and BCH control information between the RNC and the Node B. The Node B Control Port corresponds to one signalling bearer between the controlling RNC and the Node B. There is one Node B Control Port per Node B.

6.2.3.2 Communication Control Port

A Communication Control Port corresponds to one signalling bearer between the RNC and Node B for the control of Node B Communication Contexts. One signalling bearer between RNC and Node B can at most correspond to one Communication Control Port. Node B may have multiple Communication Control Ports (one per Traffic Termination Point). The Communication Control Port is selected at creation of the Node B Communication Context. The Communication Control Port is re-selected when the signalling bearer for the control of Node B Communication is rearranged.

6.2.3.3 Traffic Termination Point

Traffic Termination Point represents DCH, DSCH [TDD], USCH [TDD] and HS-DSCH and USCH [TDD] data streams belonging to one or more Node B Communication Contexts (UE contexts), which are controlled via one Communication Control Port. The Traffic Termination Point is thus a descriptive entity which neither is controlled over Iub nor by O&M.

6.2.3.4 Iub DCH Data Port

One Iub DCH Data port represents one user plane transport bearer. One user plane transport bearer will carry only one DCH data stream except in the case of coordinated DCHs, in which case the data streams of all combined DCHs shall be multiplexed on one and the same user plane transport bearer.

6.2.3.5 Iub RACH Data Port

An Iub RACH Data Port represents a user plane bearer carrying one Iub RACH Data Stream between the Node B and the RNC. There is one RACH Data Port for each RACH channel of Node B.

6.2.3.6 Iub CPCH Data Port [FDD]

An Iub CPCH Data Port represents a user plane bearer carrying one Iub CPCH Data Stream between the Node B and the RNC. There is one CPCH Data Port for each CPCH channel of Node B.

6.2.3.7 Iub FACH Data Port

An Iub FACH Data Port represents a user plane bearer carrying one Iub FACH Data Stream between the Node B and the RNC. There is one FACH Data Port for each FACH channel of Node B.

6.2.3.8 Iub DSCH Data Port [TDD]

An Iub DSCH Data Port represents a user plane bearer carrying one Iub DSCH Data Stream between the Node B and the RNC. For each DSCH, that is used by an individual UE, there is one Iub DSCH Data Port per Node B exclusively assigned to the communication context of that UE. In FDD each DSCH is associated with a downlink DPCCH.

6.2.3.8A Iub HS-DSCH Data Port

An Iub HS-DSCH Data Port represents a user plane bearer carrying one Iub HS-DSCH Data Streams between the Node B and the RNC.

6.2.3.9 Iub TDD USCH Data Port [TDD]

An Iub USCH Data Port represents a user plane bearer carrying one Iub USCH Data Stream between the Node B and the RNC. For each USCH, that is used by an individual UE, there is one Iub USCH Data Port with data exclusively assigned to the Node B communication context of that UE.

6.2.3.10 Iub PCH Data Port

An Iub PCH Data Port represents an Iub PCH Data Stream between the Node B and the RNC.

6.2.3.11 Iub FDD TFCI2 Data Port

An Iub TFCI2 Data Port represents a user plane bearer carrying the TFCI2 data stream between the Node B and the DRNC. For each individual Node B communication context, there may be up to one Iub TFCI2 Data Port Void.

6.2.4.4 Physical Shared Channels

Physical Shared Channels includes [TDD - the Physical Downlink Shared Channels (PDSCH), the Physical Uplink Shared Channels (PUSCH) and [the High Speed Physical Shared Channels (HS-PDSCH) and [TDD - The Physical Uplink Shared Channels (PUSCH)]. [TDD - These PDSCH and PUSCH [TDD] are special cases of the Common Physical Channels].

[FDD A PDSCH is defined by a channelisation code within a code subtree that is configured within a specific Communication Context. The PDSCH is activated dynamically as part of the DSCH scheduling.]

[FDD - A HS-PDSCH is defined by a channelisation code within a code subtree that is configured within a specific Communication Context. The HS-PDSCH is activated dynamically as part of the HS-DSCH scheduling.]

[TDD - A PDSCH is defined by a channelisation code, a time slot and other Physical Channel parameters. Several PDSCH may be grouped into a PDSCH Set, which is given a "PDSCH Set Id". The PDSCH Sets are configured in the Node B in the "Common Transport Channel" data base by Common NBAP messages. These PDSCH Sets are available to carry DSCH data. The PDSCH Sets are dynamically activated to carry DSCH data, as part of the DSCH scheduling.]

[TDD - A HS-PDSCH is defined by a channelisation code, a time slot and other Physical Channel parameters. The HS-PDSCH is activated dynamically as part of the HS-DSCH scheduling.]

[TDD - A PUSCH is defined by a channelisation code, a time slot and other Physical Channel parameters. Several PUSCH may be grouped into a PUSCH Set, which is given a "PUSCH Set Id". The PUSCH Sets are configured in the Node B in the "Common Transport Channel" data base by Common NBAP messages. These PUSCH Sets are available to carry USCH data. The PUSCH Sets are dynamically activated to carry USCH data, as part of the USCH scheduling.]

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 Reason for change: #
 In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.

 Summary of change: #
 DSCH is removed from the specifications for the FDD mode.

 Consequences if not approved:
 #

Clauses affected:	# 4.4.6, 4.4.9, 4.5.1, 5.2.7, 6.1, 6.2.1, 6.2.2, 6.2.3.3, 6.2.3.8, 6.2.3.9, 6.2.3.11,			
	6.2.4.4.			
	YN			
Other specs	X Other core specifications X 25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435			
affected:	XTest specifications34.108, 34.123XO&M Specifications			
Other comments:	Figure in § 6.1 has been cleaned up. For implementation of this CR jointly with CR xxxx on "Removal of CPCH feature", it is suggested to use the "cleaned up" version of the figure in this CR and perform the changes approved in CR xxxx afterwards, if this CR is approved.			

How to create CRs using this form:

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

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

4.4.6 Iub DSCH data stream [TDD]

The Iub interface provides the means for transport of downlink shared channel, DSCH, data frames between RNC and Node B. An Iub DSCH data stream corresponds to the data carried on one DSCH transport channel for one UE. A UE may have multiple DSCH data streams.

4.4.7 Iub USCH data stream [TDD]

The Iub interface provides the means for transport of uplink shared channel, USCH, data frames between Node B and RNC. An Iub USCH data stream corresponds to the data carried on one USCH transport channel for one UE. A UE may have multiple USCH data streams.

4.4.8 Iub PCH data stream

The Iub interface provides the means for transport of PCH transport frames between RNC and Node B. An Iub PCH data stream corresponds to the data carried on one PCH transport channel.

4.4.9 Iub FDD TFCI2 data stream

The Iub interface provides the means for transport of control frames between DRNC and Node B. An Iub TFCI2 data stream corresponds to the TFCI2 signalling for one Node B communication context that is using one or more DSCH transport channels. A Node B communication context may be assigned up to one TFCI2 data stream<u>Void</u>.

4.5 Iub Interface Characteristics

4.5.1 Mapping of lub data streams

- **DCH** One Iub DCH data stream is carried on one transport bearer. For each DCH data stream a transport bearer must be established over Iub, except in the case of coordinated DCHs in which case a set of coordinated DCHs are multiplexed onto the same transport bearer.
- [FDD CPCH One Iub CPCH data stream is carried on one transport bearer. For each CPCH in a cell, an Iub CPCH data stream must be established over the Iub interface.]
- **RACH** One Iub RACH data stream is carried on one transport bearer. For each RACH in a cell, a transport bearer must be established over the Iub interface.
- **FACH** One Iub FACH data stream is carried on one transport bearer. For each FACH in a cell, a transport bearer must be established over the Iub Interface.
- **[TDD DSCH** One Iub DSCH data stream is carried on one transport bearer. For each DSCH data stream, a transport bearer must be established over the Iub interface.]
- **HS-DSCH** One Iub HS-DSCH data stream is carried on one transport bearer. For each HS-DSCH data stream, a transport bearer must be established over the Iub interface.
- [FDD TFCI2 One lub TFCI2 data stream is carried on one transport bearer.]
- [FDD E-DCH One Iub E-DCH data stream is carried on one transport bearer. For each E-DCH data stream, a transport bearer must be established over the Iub interface.]
- [TDD USCH One Iub USCH data stream is carried on one transport bearer. For each USCH data stream, a transport bearer must be established over the Iub interface.]
- **PCH** One Iub PCH data stream is carried on one transport bearer.

5.2.7 Traffic management of Shared Channels [TDD]

The shared channels shall be controlled from the RNC. This is typically the control of the <u>TDD</u>DSCH channels and the TDD USCH channels.

6 Node B logical Model over lub

6.1 Overview

The model described in figure 2 shows the Node B as seen from the controlling RNC. The model includes:

- The logical resources provided by Node B to UTRAN (via its Controlling RNC) depicted as "cells" which include the physical channel resources DPCH, [FDD F-DPCH₇] [TDD PDSCH₇ and PUSCH];
- The dedicated channels which have been established on Node B;
- The common transport channels that Node B provides to the RNC.

The procedures for controlling the connections between radio links and Iub DCH data ports are sent from the RNC to the Node B via the Communication Control Ports.

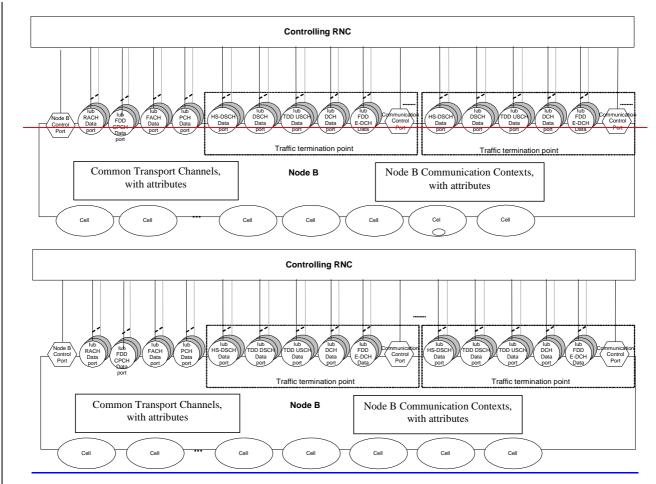


Figure 2: Logical Model of Node B

6.2 Elements of the logical model

6.2.1 Node B Communication Contexts for Dedicated and Shared Channels

A Node B Communication Context corresponds to all the dedicated resources that are necessary for a user in dedicated mode and using dedicated and/or shared channels as restricted to a given Node B. [TDD - The Node B Communication Context also exists for users in Cell_FACH mode (i.e. non-dedicated mode) provided a USCH and/or DSCH and/or HS-DSCH has been allocated to these users.]

There are a number of Node B Communication Contexts inside a given Node B.

The attributes to a Node B Communication Context shall include the following (not exhaustive):

- The list of Cells where dedicated and/or shared physical resources are used.
- The list of DCH which are mapped on the dedicated physical resources for that Node B Communication Context.
- [TDD The list of DSCH and USCH [TDD] which are used by the respective UE.]
- The list of HS-DSCH MAC-d flows which are used by the respective UE.
- [FDD The list of E-DCH MAC-d flows which are used by the respective UE.]
- The complete DCH characteristics for each DCH, identified by its DCH-identifier [4].
- [TDD The complete Transport Channel characteristics for each DSCH and USCH, identified by its Shared Channel identifier [4].]
- The complete HS-DSCH characteristics for each HS-DSCH MAC-d Flow, identified by its HS-DSCH MAC-d Flow identifier[4].
- [FDD The complete E-DCH characteristics for each E-DCH MAC-d Flow, identified by its E-DCH MAC-d Flow identifier[4].]
- The list of Iub DCH Data Ports.
- [TDD The list of Iub DSCH Data ports and Iub USCH data ports.]
- The list of Iub HS-DSCH Data ports.
- [FDD The list of Iub E-DCH Data ports.]
- [FDD Up to one Iub TFCI2 data port.]
- For each Iub DCH Data Port, the corresponding DCH and cells which are carried on this data port.
- [TDD For each Iub DSCH and USCH data port, the corresponding DSCH or USCH and cell which serves that DSCH or USCH.]
- For each Iub HS-DSCH data port, the corresponding HS-DSCH data stream and cell which serves that HS-DSCH data stream.
- Physical layer parameters (outer loop power control, etc).

6.2.2 Common Transport Channels

Common Transport Channels are defined in [9]. A Common Transport Channel is configured in the Node B, on request of the CRNC.

The BCH is carried directly on the Node B control port using NBAP procedures. This Common Channel will not be mapped to an individual data port.

The RACH has an associated Iub RACH Data Port and the FACH has an associated Iub FACH Data Port.

[FDD - The CPCH has an associated Iub CPCH Data Port.]

[TDD - The Iub DSCH data port is associated to one DSCH and to one Node B Communication Context.]

[TDD - the Iub USCH data port is associated to one USCH and to one Node B Communication Context.]

The attributes of a Common transport channel shall include (not exhaustive):

- Type (RACH, CPCH [FDD], FACH, DSCH [TDD], USCH [TDD], PCH).
- Associated Iub RACH Data Port for a RACH, Iub CPCH Data Port for a CPCH [FDD], Iub FACH Data Port for a FACH, Iub PCH Data Port for the PCH.

[FDD List of associated Iub FDD DSCH Data ports for the DSCH.]

- Physical parameters.

[TDD - The DSCHs used by one UE are multiplexed to one or several CCTrCHs where each CCTrCH is mapped to a set of PDSCH ("PDSCH Set"). These PDSCH Sets are included in the Common Transport Channel data base. The same applies for the USCHs and the corresponding PUSCH Sets.]

6.2.3 Transport network logical resources

6.2.3.1 Node B Control Port

The Node B Control Port is used to exchange the signalling information for the logical O&M of Node B, the creation of Node B Communication Contexts, the configuration of the common transport channels that Node B provides in a given cell, PCH and BCH control information between the RNC and the Node B. The Node B Control Port corresponds to one signalling bearer between the controlling RNC and the Node B. There is one Node B Control Port per Node B.

6.2.3.2 Communication Control Port

A Communication Control Port corresponds to one signalling bearer between the RNC and Node B for the control of Node B Communication Contexts. One signalling bearer between RNC and Node B can at most correspond to one Communication Control Port. Node B may have multiple Communication Control Ports (one per Traffic Termination Point). The Communication Control Port is selected at creation of the Node B Communication Context. The Communication Control Port is re-selected when the signalling bearer for the control of Node B Communication is rearranged.

6.2.3.3 Traffic Termination Point

Traffic Termination Point represents DCH, DSCH [TDD], USCH [TDD], HS-DSCH, USCH [TDD] and E-DCH [FDD] data streams belonging to one or more Node B Communication Contexts (UE contexts), which are controlled via one Communication Control Port. The Traffic Termination Point is thus a descriptive entity which neither is controlled over Iub nor by O&M.

6.2.3.4 Iub DCH Data Port

One Iub DCH Data port represents one user plane transport bearer. One user plane transport bearer will carry only one DCH data stream except in the case of coordinated DCHs, in which case the data streams of all combined DCHs shall be multiplexed on one and the same user plane transport bearer.

6.2.3.5 Iub RACH Data Port

An Iub RACH Data Port represents a user plane bearer carrying one Iub RACH Data Stream between the Node B and the RNC. There is one RACH Data Port for each RACH channel of Node B.

6.2.3.6 Iub CPCH Data Port [FDD]

An Iub CPCH Data Port represents a user plane bearer carrying one Iub CPCH Data Stream between the Node B and the RNC. There is one CPCH Data Port for each CPCH channel of Node B.

6.2.3.7 Iub FACH Data Port

An Iub FACH Data Port represents a user plane bearer carrying one Iub FACH Data Stream between the Node B and the RNC. There is one FACH Data Port for each FACH channel of Node B.

6.2.3.8 Iub DSCH Data Port [TDD]

An Iub DSCH Data Port represents a user plane bearer carrying one Iub DSCH Data Stream between the Node B and the RNC. For each DSCH, that is used by an individual UE, there is one Iub DSCH Data Port per Node B exclusively assigned to the communication context of that UE. In FDD each DSCH is associated with a downlink DPCCH.

6.2.3.8A Iub HS-DSCH Data Port

An Iub HS-DSCH Data Port represents a user plane bearer carrying one Iub HS-DSCH Data Streams between the Node B and the RNC.

6.2.3.9 Iub TDD-USCH Data Port [TDD]

An Iub USCH Data Port represents a user plane bearer carrying one Iub USCH Data Stream between the Node B and the RNC. For each USCH, that is used by an individual UE, there is one Iub USCH Data Port with data exclusively assigned to the Node B communication context of that UE.

6.2.3.10 Iub PCH Data Port

An Iub PCH Data Port represents an Iub PCH Data Stream between the Node B and the RNC.

6.2.3.11 Iub FDD TFCI2 Data Port

An Iub TFCI2 Data Port represents a user plane bearer carrying the TFCI2 data stream between the Node B and the DRNC. For each individual Node B communication context, there may be up to one Iub TFCI2 Data Port Void.

6.2.3.12 Iub E-DCH Data Port [FDD]

An Iub E-DCH Data Port represents a user plane bearer carrying one Iub E-DCH Data Stream between the Node B and the RNC.

6.2.4.4 Physical Shared Channels

Physical Shared Channels includes [TDD - the Physical Downlink Shared Channels (PDSCH), the Physical Uplink Shared Channels (PUSCH) and the High Speed Physical Shared Channels (HS-PDSCH) and [TDD - The Physical Uplink Shared Channels (PUSCH)]. [TDD - These PDSCH and PUSCH [TDD] are special cases of the Common Physical Channels].

[FDD A PDSCH is defined by a channelisation code within a code subtree that is configured within a specific Communication Context. The PDSCH is activated dynamically as part of the DSCH scheduling.]

[FDD - A HS-PDSCH is defined by a channelisation code within a code subtree that is configured within a specific Communication Context. The HS-PDSCH is activated dynamically as part of the HS-DSCH scheduling.]

[TDD - A PDSCH is defined by a channelisation code, a time slot and other Physical Channel parameters. Several PDSCH may be grouped into a PDSCH Set, which is given a "PDSCH Set Id". The PDSCH Sets are configured in the Node B in the "Common Transport Channel" data base by Common NBAP messages. These PDSCH Sets are available to carry DSCH data. The PDSCH Sets are dynamically activated to carry DSCH data, as part of the DSCH scheduling.]

[TDD - A HS-PDSCH is defined by a channelisation code, a time slot and other Physical Channel parameters. The HS-PDSCH is activated dynamically as part of the HS-DSCH scheduling.]

[TDD - A PUSCH is defined by a channelisation code, a time slot and other Physical Channel parameters. Several PUSCH may be grouped into a PUSCH Set, which is given a "PUSCH Set Id". The PUSCH Sets are configured in the Node B in the "Common Transport Channel" data base by Common NBAP messages. These PUSCH Sets are available to carry USCH data. The PUSCH Sets are dynamically activated to carry USCH data, as part of the USCH scheduling.]

	CHANGE REQUEST		CR-Form-v7.1			
ж	<mark>25.433</mark> CR <mark>1113 </mark>	Current vers	^{ion:} <mark>5.12.0</mark> ^ж			
For <u>HELP</u> on	using this form, see bottom of this page or look at the	pop-up text	over the 🛱 symbols.			
Proposed chang	e affects: UICC apps೫ ME Radio Ac	cess Networ	k X Core Network			
Title:	Feature clean-up: Removal of DSCH (FDD mode)					
Source:	f RAN3					
Work item code:	f TEI5	Date: ೫	09/05/2005			
work nem code.		Date. #	09/05/2005			
Category:	f C	Release: ೫	Rel-5			
outogory:	Use <u>one</u> of the following categories: F (correction)	Use <u>one</u> of	the following releases: (GSM Phase 2)			
	A (corresponds to a correction in an earlier release)		(Release 1996)			
	B (addition of feature),		(Release 1997)			
	C (functional modification of feature)	R98	(Release 1998)			
	D (editorial modification)		(Release 1999)			
	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)						
		Rel-7	(Release 7)			

Reason for change: #	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.
Summary of change: ℜ	R1: Choice in TFCS is renamed as well as choice tags.
	R0: DSCH is removed from the specifications for the FDD mode. <u>Impact Analysis:</u> Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.
Consequences if # not approved:	The obsolete DSCH feature will remain in the specifications.
Clauses affected: ⊮	8.2.12.2, 8.2.13.2, 8.2.17.1, 8.2.17.2, 8.2.17.4, 8.3.2.2, 8.3.2.4, 8.3.5.2, 8.3.5.4, 8.3.17.2, 9.1.24.1, 9.1.27.1, 9.1.36.1, 9.1.37.1, 9.1.37.2, 9.1.38.1, 9.1.40.2, 9.1.42.1, 9.1.42.2, 9.1.43, 9.1.87, 9.2.1.20A, 9.2.1.27, 9.2.1.27A, 9.2.1.30, 9.2.1.56C, 9.2.1.58, 9.2.2.13B, 9.2.2.13D, 9.2.2.13E, 9.2.2.13F, 9.2.2.13G, 9.2.2.13H, 9.2.2.13I, 9.2.2.21A, 9.2.2.25, 9.2.2.44A, 9.2.2.49A, 9.2.2.50, 9.2.3.x1 (new), 9.2.3.x2 (new), 9.2.3.5A, 9.3.3, 9.3.4, 9.3.6.

		Y	Ν			
Other specs	Ħ	x		Other core specifications	Ħ	25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435
affected:		X	X	Test specifications O&M Specifications		34.108, 34.123
Other comments:	ж					

How to create CRs using this form:

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

8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in the Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in the Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful Operation

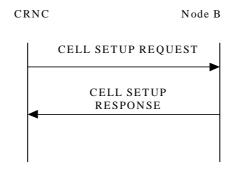


Figure 16: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The *Maximum Transmission Power* IE value shall be stored in the Node B and, at any instance of time, the total maximum output power in the cell shall not be above this value.

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the *Reference SFN Offset* IE is included in the CELL SETUP REQUEST message, the Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node Bs shall ignore the *Reference SFN Offset* IE if included.]

[FDD - If the *IPDL Parameter Information* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD - If the *IPDL Parameter Information* IE containing *IPDL TDD Parameters* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 3.84Mcps TDD mode shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the *IPDL Parameter Information LCR* IE containing *IPDL TDD Parameters LCR* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 1.28Mcps TDD mode shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

When the cell is successfully configured, the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured the CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD frame structure are defined.] [1.28Mcps TDD - When the cell is

successfully configured, the DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to the state Enabled [6].

[FDD—If the CELL SETUP REQUEST message includes the *PDSCH Information* IE, the Node B shall, if supported, store the values included in the *Maximum PDSCH Power* IE and apply the indicated maximum power levels to the PDSCH.]

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

8.2.12.3 Unsuccessful Operation

CRNC	Node B
	CELL SETUP REQUEST
	CELL SETUP FAILURE

Figure 17: Cell Setup procedure: Unsuccessful Operation

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to the CRNC.

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

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause:

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

8.2.12.4 Abnormal Conditions

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

If the Local Cell on which the cell is mapped does not belong to a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

8.2.13 Cell Reconfiguration

8.2.13.1 General

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

8.2.13.2 Successful Operation

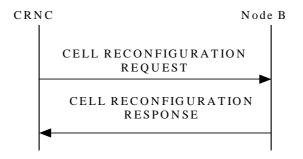


Figure 18: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

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

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

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE, the Node B shall reconfigure the Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

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

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *PCCPCH Information* IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot* IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration LCR* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot LCR* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *DPCH/PUSCH/PRACH Constant Value* IEs, the Node B shall ignore them]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *DwPCH Information* IE, the Node B shall reconfigure the DwPCH power in the Cell according to the *DwPCH Power* IE]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active" the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL FDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information LCR* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters LCR* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with *the IPDL Indicator* IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the *N_INSYNC_IND*, *N_OUTSYNC_IND* and *T_RLFAILURE* IEs. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD If the CELL RECONFIGURATION REQUEST message includes the *PDSCH Information* IE, the Node B shall, if supported, store the values included in the *Maximum PDSCH Power* IE and apply the indicated maximum power levels to the PDSCH. For spreading factors for which a maximum PDSCH power level was already configured and the CELL RECONFIGURATION REQUEST does not provide a new value for the concerning spreading factor, the Node B shall continue to use the existing value.]

8.2.13.3 Unsuccessful Operation

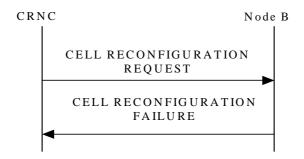


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message, the CELL RECONFIGURATION FAILURE message shall be sent to the CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in the Node B.

The *Cause* IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause:

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

8.2.13.4 Abnormal Conditions

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL already activated".

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored in the Node B defining the IPDL, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL parameters not available".

If the Local Cell on which the cell is mapped does not belong to of a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

[FDD - The Radio Link Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs or an HS-DSCH on one radio link.]

[TDD - The Radio Link Setup procedure is used to establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, or DCHs and an HS-DSCH, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation

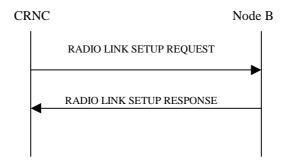


Figure 24: Radio Link Setup procedure, Successful Operation

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

Upon reception of the RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

[TDD - If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not.

- If the Diversity Control Field IE is set to"May", the Node B shall decide for either of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the <u>HS-</u>DSCH<u>MAC-d Flow</u>s. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

[FDD - In the RADIO LINK SETUP RESPONSE message, the Node B shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, the Node B shall include in the DCH Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each DCH of this RL.]
- [FDD Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined.]

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

In the case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be specified for only one of the DCHs in the set of co-ordinated DCHs.

[TDD - DSCH(s)]:

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

[FDD—If the RADIO LINK SETUP REQUEST message includes the *TFCI2 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of ToAWS and ToAWE specified in the IEs. The *TFCI2 Bearer Information Response* IE containing the

Binding ID IE and the Transport Layer Address IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message. If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the TFCI2 Bearer Information IE the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a TFCI2 transport bearer.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *DSCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DSCH.]

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

[TDD - USCH(s)]:

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

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *USCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the USCH.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *USCH Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD -If the USCH Information IE is present, the Node B shall include in the USCH Information Response IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

HS-DSCH:

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

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK SETUP RESPONSE message.
- The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- If the RADIO LINK SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].

- [FDD If the RADIO LINK SETUP REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD *HS-SCCH Specific Information Response* IE] [1.28Mcps TDD *HS-SCCH Specific Information Response* IE] in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* refers to the latest passed CFN with that value The Node B shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

[FDD - DL Code Information]:

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

[TDD - PDSCH RL ID]:

[TDD - If the *PDSCH RL ID* IE is included in RADIO LINK SETUP REQUEST message, the Node B shall use the PDSCH RL ID as an identifier for the PDSCH and/or PUSCH in this radio link.]

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH shall not be used", the Node B shall assume that the UE is not using the Primary CPICH for channel estimation. If the RADIO LINK SETUP REQUEST message does not include the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH may be used", the Node B shall assume that the UE may use the Primary CPICH for channel estimation.]

General:

[FDD - If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD - If the received *Limited Power Increase* IE is set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control.]

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Length Of TFCI2* IE, then the Node B shall apply the length of TFCI (field 2) indicated in the message.]

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length Of TFC12* IE and the *Split Type* IE is present with the value "Hard", then the Node B shall assume the length of the TFCI (field 2) is 5 bits.]

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC UL Step Size* IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message.]

Radio Link Handling:

[FDD - Transmit Diversity]:

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

DL Power Control:

[FDD - The Node B shall start any DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the δP_{curr} , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message and be prepared that the DPC mode may be changed during

the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[3.84 Mcps TDD - The Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall start any DL transmission on each DCH type CCTrCH using the initial CCTrCH DL power, as determined above, on each DL DPCH and on each Time Slot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[3.84 Mcps TDD - The Node B shall determine the maximum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[3.84 Mcps TDD - The Node B shall determine the minimum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - The Node B shall determine the initial DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the Initial DL Power and ignore the *DL Time Slot ISCP info LCR* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DCH type CCTrCH using the initial DL power, as determined above, on each DL DPCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[1.28Mcps TDD – The Node B shall determine the initial power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, and the *DL Time Slot ISCP Info LCR* IE, included in the *RL Information* IE, are included then the Node B shall use that power for the PDSCH and ignore the *Initial DL Transmission Power*

IE included in the *RL Information* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DSCH type CCTrCH using the initial DL power, as determined above, on each DL PDSCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD - If the *DL Time Slot ISCP Info* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

[FDD - If the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the Node B shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.7, using the *DL Power Balancing Information* IE. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P_{init}* shall be set to the power level indicated by the *Initial DL Transmission Power* IE.]

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

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

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

General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE and the S-Field Length IE, the Node B shall activate SSDT, if supported, using the SSDT Cell Identity IE and SSDT Cell Identity Length IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the Node B shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated.]

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

[FDD If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the Node B shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity For EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity For EDSCHPC IE, then the Node B shall ignore the value in SSDT Cell Identity For EDSCHPC IE. If the enhanced DSCH power control is activated and the TFCI power control in DSCH hard split mode is supported, the primary/secondary status determination in the enhanced DSCH power control is also applied to the TFCI power control in DSCH hard split mode.]

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC Pattern* 01 Count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context.]

[FDD - The UL out-of-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

Response Message:

If the RLs are successfully established, the Node B shall and respond with a RADIO LINK SETUP RESPONSE message.

After sending the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16].]
- [TDD start transmission on the new RL immediately as specified in [16].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- if the Delayed Activation IE indicates "Separate Indication":
 - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
 - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16], however never before the CFN indicated in the *Activation CFN* IE.]
 - [TDD start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]

8.2.17.3 Unsuccessful Operation



Figure 25: Radio Link Setup procedure, Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD - If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. In this case, the Node B shall include the *Communication Control Port Id* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP FAILURE message.]

Typical cause values are as follows:

Radio Network Layer Cause:

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- DPC mode change not supported
- Delayed Activation not supported

Transport Layer Cause:

- Transport Resources Unavailable

Miscellaneous Cause:

- O&M Intervention
- Control processing overload

- HW failure

8.2.17.4 Abnormal Conditions

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

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

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

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must", the Node B shall regard the Radio Link Setup procedure as failed and respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD—If the RADIO LINK SETUP REQUEST message includes the *Length Of TFCI2* IE but the *TFCI Signalling Option* IE is set to "Normal", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length Of TFCI2* IE but the *Split Type* IE is set to "Logical", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD If the RADIO LINK SETUP REQUEST message includes the *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 SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE not referring to one of the radio links to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

8.3.2 Synchronised Radio Link Reconfiguration Preparation

8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one Node B Communication Context.

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

8.3.2.2 Successful Operation

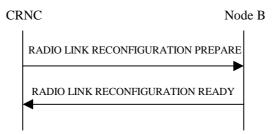


Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

DCH Addition:

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

- If the *DCHs To Add* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

DCH Deletion:

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

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

Physical Channel Modification:

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

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

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

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the Node B shall set the new Downlink DPCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]

- [FDD - If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

-[FDD If the *DL DPCH Information* IE includes the *PDSCH Code Mapping* IE, then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]

-[FDD If the *DL DPCH Information* IE includes the *PDSCH RL ID* IE, then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[TDD – UL/DL CCTrCH Modification]

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

- [TDD If the IE includes any of the *TFCS* IE, *TFCI coding* IE or *Puncture Limit* IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]
- [TDD If the IE includes any *UL DPCH To Add* IE, *UL DPCH To Add LCR* IE, *DL DPCH To Add LCR* IE, or *DL DPCH To Add* IE, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Delete* IE or *DL DPCH To Delete* IE, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH To Modify IE or DL DPCH To Modify IE and includes any of the Repetition Period IE, Repetition Length IE or TDD DPCH Offset IE, or the message includes UL/DL Timeslot Information and includes any of the [3.84Mcps TDD Midamble Shift And Burst Type IE], [1.28Mcps TDD Midamble Shift LCR IE], or TFCI Presence IE or the message includes UL/DL Code information and includes [3.84Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD UL DPCH Time Slot Format LCR IE or TDD DL DPCH Time Slot Format LCR IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control according [19] and [21] when the new configuration is being used.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC DL Step Size* IE, the Node B shall apply this value to the downlink TPC step size in the new configuration.]

[TDD – UL/DL CCTrCH Addition]

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

[TDD – If the *UL/DL CCTrCH To Add* IE includes any [3.84Mcps TDD - *UL/DL DPCH Information* IE] [1.28Mcps TDD - *UL/DL DPCH Information LCR* IE], the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *TDD TPC DL Step Size* IE within a *DL CCTrCH To Add* IE, the Node B shall set the downlink TPC step size of that CCTrCH to that value, otherwise the Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - If the *UL CCTrCH To Add* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply the uplink TPC step size in the new configuration.]

[1.28Mcps TDD – The Node B shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [19] and [21] in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

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

DL Power Control:

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, according to subclause 8.3.7, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

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

[TDD – DSCH Addition/Modification/Deletion]:

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IE, then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD – The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH.]

[FDD—If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFC12 Bearer Information* IE, then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist for this Node B Communication Context. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IE in the *TFC12 Bearer Information* IE the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a TFC12 transport bearer. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFC12 transport bearer is to be deleted, then the Node B shall release the resources associated with that bearer in the new configuration.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Request Indicator* IE in the *TFCI2 Bearer Information* IE with the value "New Bearer Requested", the Node B shall establish a new transport bearer replacing the existing transport bearer on which the DSCH TFCI Signaling control frames shall be received. The *Binding ID* IE and *Transport Layer Address* IE of a new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message.]

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

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

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Length Of TFCI2* IE, then the Node B shall apply the length of TFCI (field 2) indicated in the message in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message does not include the *Length Of TFCl2* IE and the *Split Type* IE is present with the value "Hard", then the Node B shall assume the length of the TFCI (field 2) is 5 bits in the new configuration.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the DSCH Common Information IE, the Node B shall treat it as follows:]
 - [FDD If the *Enhanced DSCH PC Indicator* IE is included and set to "Enhanced DSCH PC Active in the UE ", the Node B shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity IE are included in the RL Information IE.]
 - [FDD together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

[FDD If the enhanced DSCH power control is activated and the TFCI power control in DSCH hard split mode is supported, the primary/secondary status determination in the enhanced DSCH power control is also applied to the TFCI power control in DSCH hard split mode.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the Node B shall deactivate enhanced DSCH power control in the new configuration.]

[TDD – USCH Addition/Modification/Deletion]:

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified, if the *TNL QoS* IE is included and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply between the Node B and the CRNC for the related USCHs.]
- [TDD The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each USCH.]

RL Information:

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

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

- [FDD If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration. During compressed mode, the δP_{curr} , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [3.84 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. If no *Maximum Downlink Power* IE is included (even if *CCTrCH Maximum DL Transmission Power* IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. If no *Minimum Downlink Power* IE is included (even if *CCTrCH Minimum DL Transmission Power* IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum CCTrCH DL Power to Modify* IE and/or *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH. If the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values for all other DCH type CCTrCHs of the radio link.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum DL Power to Modify LCR* IE and/or *Minimum DL Power to Modify LCR* IE are included, the Node B shall apply the values in the new configuration for this timeslot, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [3.84Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the determined initial CCTrCH DL power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4).]
- [3.84Mcps TDD The initial power, maximum power, and minimum power for a DSCH type CCTrCH to be added or modified, shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot in a DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the initial DL power, otherwise the initial DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]
- [1.28Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE and the *DL Time Slot ISCP Info LCR* IE are included then the Node B shall use that power for the PDSCH power, otherwise the PDSCH power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. If *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each PDSCH and on each timeslot of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing RL/timeslots when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL PDSCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL PDSCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and the *Maximum CCTrCH DL Power to Modify* IE and/or the *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [FDD- If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the Node B shall adjust the timing of the radio link accordingly in the new configuration.]

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

[TDD - PDSCH RL ID]:

- [TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then in the new configuration the Node B shall use the PDSCH and/or PUSCH in this radio link.]

Signalling bearer rearrangement:

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

HS-DSCH Setup:

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

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

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.

- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message.
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the
 [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-d PDU Size Index* IE in the *Modify Priority Queue* choice, the Node B shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the *MAC-d PDU Size Index* IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Measurement Power Offset* IE in the *HS-DSCH Information* IE or the *HS-DSCH Information To Modify* IE, then the Node B shall use the measurement power offset as described in [10] subclause 6A.2.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use the indicated power offset in the new configuration.]
- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the Node B may modify the HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the Node B may modify the HS-SCCH parameters corresponding to the HS-DSCH. The Node B shall then report

the values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD - *HS*-SCCH Specific Information Response] [1.28Mcps TDD - *HS*-SCCH Specific Information Response LCR] IEs in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

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

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

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

[FDD - Phase Reference Handling]:

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Primary CPICH Usage For Channel Estimation* IE, the Node B shall assume that Primary CPICH usage for channel estimation has been reconfigured.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Secondary CPICH Information Change* IE, the Node B shall assume that Secondary CPICH usage for channel estimation has been reconfigured.]

General

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

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel or 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.

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

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

8.3.2.3 Unsuccessful Operation

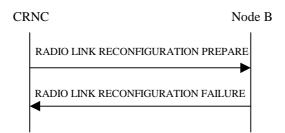


Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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

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

Typical cause values are as follows:

Radio Network Layer Cause

- UL SF not supported
- DL SF not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported
- Number of UL codes not supported
- RL Timing Adjustment not supported

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.3.2.4 Abnormal Conditions

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

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

[FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE" and SSDT is not active in the current configuration, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed if the *UL DPCH Information* IE does not include the *SSDT Cell Identity Length* IE. In this case, it shall respond with a RADIO LINK RECONFIGURATION FAILURE message.]

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

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

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

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Length Of TFCI2* 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 PREPARE 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 PREPARE 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 PREPARE message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message is to modify UE channel estimation information for an existing RL and the modification is not allowed according to [10] subclause 4.3.2.1, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD - If multiple radio links exist within the Node B Communication Context and the RADIO LINK RECONFIGURATION PREPARE message does not include a *RL ID* IE within each *UL DPCH To Add Per RL* IE, *DL DPCH To Add Per RL* IE, *UL DPCH To Modify Per RL* IE, and *DL DPCH To Modify Per RL* IE that is present in the message, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.5 Unsynchronised Radio Link Reconfiguration

8.3.5.1 General

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

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

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

8.3.5.2 Successful Operation

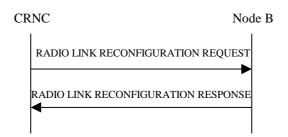


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

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

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

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

DCH Modification:

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

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

DCH Addition:

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

- If a *DCHs To Add* IE includes multiple *DCH Specific Info* IEs for a DCH to be added, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCHas the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" as the QE in the UL data frames [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Deletion:

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

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

[FDD - Physical Channel Modification]:

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

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

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

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the information when building TFCIs in the new configuration.

-[FDD If the *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 TFCI2* 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. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[TDD – UL/DL CCTrCH Modification]

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

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

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

[TDD – UL/DL CCTrCH Deletion]

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

DL Power Control:

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

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

RL Information:

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

- [FDD If the *RL Information* IE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH 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 allocate a new Communication Control Port for the control of the Node B Communication Context and include the *Target Communication Control Port ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

HS-DSCH Setup:

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

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

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The Node B shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message.

- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the
 [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

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

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

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs and if the Serving HS-DSCH Radio Link is in the Node B, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

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

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

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

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

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

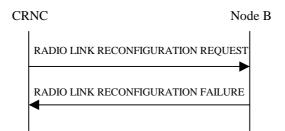


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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 TFCI2 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 TFCI2* 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.17 Bearer Re-arrangement

8.3.17.1 General

This procedure is started by the Node B when Bearers for the Node B Communication Context need to be rearranged.

The Node B may initiate the Bearer Rearrangement procedure at any time after establishing a Radio Link.

8.3.17.2 Successful Operation

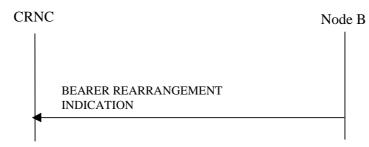


Figure 47C: Bearer Re-arrangement Indication, Successful Operation

When the Node B detects that a signaling bearer or a transport bearer or both need to be re-arranged for the Node B Communication Context, it shall send the BEARER REARRANGEMENT INDICATION message to the CRNC. The message shall use the Communication Control Port assigned for this Node B Communication Context.

If the signaling bearer for the control of the Node B Communication Context needs to be rearranged, the *Signalling Bearer Requested Indicator* IE shall be included in the BEARER REARRANGEMENT INDICATION message.

If the transport bearer for a transport channel needs to be rearranged, the ID of the transport channel for which a new transport bearer is required, shall be included in the BEARER REARRANGEMENT INDICATION message.

[FDD If the TFCI2 bearer on which the DSCH TFCI Signaling control frames shall be received is required to be rearranged, the *TFCI2 Bearer Request Indicator* IE shall be included in the BEARER REARRANGEMENT INDICATION message.]

8.3.17.3 Abnormal Conditions

9.1.24 CELL SETUP REQUEST

9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Local Cell ID	М		9.2.1.38		YES	reject
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	Μ		9.2.1.16		YES	reject
T Cell	М		9.2.2.49		YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nu [14]	YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nd [14]	YES	reject

Maximum Transmission Power	М		9.2.1.40	YES	reject
Closed Loop Timing Adjustment Mode	0		9.2.2.2A	YES	reject
Primary Scrambling Code	М		9.2.2.34	YES	reject
Synchronisation		1		YES	reject
Configuration					
>N_INSYNC_IND	М		9.2.1.47A	_	
>N_OUTSYNC_IND	М		9.2.1.47B	_	
>T_RLFAILURE	М		9.2.1.56A	—	
DL TPC Pattern 01 Count	М		9.2.2.13A	YES	reject
Primary SCH Information		1		YES	reject
>Common Physical Channel ID	Μ		9.2.1.13	_	
>Primary SCH Power	М		DL Power 9.2.1.21	-	
>TSTD Indicator	М		9.2.1.64	_	
Secondary SCH Information		1		YES	reject
>Common Physical	М	† ·	9.2.1.13		
Channel ID					
>Secondary SCH Power	М		DL Power	-	
	1.4		9.2.1.21		
>TSTD Indicator	М		9.2.1.64	-	• .
Primary CPICH Information		1		YES	reject
>Common Physical Channel ID	Μ		9.2.1.13	-	
>Primary CPICH power	М		9.2.2.33	_	
>Transmit Diversity Indicator	М		9.2.2.53	-	
Secondary CPICH		0 <maxs< td=""><td></td><td>EACH</td><td>reject</td></maxs<>		EACH	reject
Information		CPICHCell		ERON	10,000
>Common Physical Channel ID	М		9.2.1.13	_	
>DL Scrambling Code	М		9.2.2.13	_	
>FDD DL Channelisation Code Number	М		9.2.2.14	-	
>Secondary CPICH Power	М		DL Power	-	
			9.2.1.21		
>Transmit Diversity Indicator	М		9.2.2.53	-	
Primary CCPCH Information		1		YES	reject
>Common Physical Channel ID					
	Μ		9.2.1.13	-	
>BCH Information		1	9.2.1.13		
>BCH Information >>Common Transport	M	1	9.2.1.13		
		1	9.2.1.14 DL Power		
>>Common Transport Channel ID >>BCH Power	M	1	9.2.1.14 DL Power 9.2.1.21		
>>Common Transport Channel ID >>BCH Power >STTD Indicator	М		9.2.1.14 DL Power		
>>Common Transport Channel ID >>BCH Power >STTD Indicator Limited Power Increase Information	M M M M	1	9.2.1.14 DL Power 9.2.1.21 9.2.2.48		reject
>Common Transport Channel ID >>BCH Power >STTD Indicator Limited Power Increase Information >Power_Raise_Limit	M M M M M		9.2.1.14 DL Power 9.2.1.21 9.2.2.48 9.2.2.29A		reject
>>Common Transport Channel ID >>BCH Power >STTD Indicator Limited Power Increase Information >Power_Raise_Limit >DL_power_averaging_win	M M M M		9.2.1.14 DL Power 9.2.1.21 9.2.2.48	- - - - YES	reject
>>Common Transport Channel ID >>BCH Power >STTD Indicator Limited Power Increase Information >Power_Raise_Limit >DL_power_averaging_win dow_size	M M M M M	1	9.2.1.14 DL Power 9.2.1.21 9.2.2.48 9.2.2.29A	- - - YES - -	
>>Common Transport Channel ID >>BCH Power STTD Indicator Limited Power Increase Information >Power_Raise_Limit >DL_power_averaging_win dow_size IPDL Parameter Information	M M M M M M M		9.2.1.14 DL Power 9.2.1.21 9.2.2.48 9.2.2.29A 9.2.2.12A	- - - YES - - - YES	reject
>>Common Transport Channel ID >>BCH Power >STTD Indicator Limited Power Increase Information >Power_Raise_Limit >DL_power_averaging_win dow_size IPDL Parameter Information >IPDL FDD Parameters	M M M M M M M M M	1	9.2.1.14 DL Power 9.2.1.21 9.2.2.48 9.2.2.29A 9.2.2.12A 9.2.2.12A 9.2.2.18C	- - - YES - - - YES - - - -	
>>Common Transport Channel ID >>BCH Power >STTD Indicator Limited Power Increase Information >Power_Raise_Limit >DL_power_averaging_win dow_size IPDL Parameter Information	M M M M M M M	1	9.2.1.14 DL Power 9.2.1.21 9.2.2.48 9.2.2.29A 9.2.2.12A	- - - YES - - - YES	

Range Bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICHs that can be defined in a Cell.

9.1.27 CELL RECONFIGURATION REQUEST

9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	Μ		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	Μ		9.2.1.16		YES	reject
Maximum Transmission Power	0		9.2.1.40		YES	reject
Synchronisation Configuration		01			YES	reject
>N_INSYNC_IND	Μ		9.2.1.47A		—	
>N_OUTSYNC_IND	М		9.2.1.47B		_	
>T_RLFAILURE	М		9.2.1.56A		_	
Primary SCH Information		01			YES	reject
>Common Physical Channel ID	Μ		9.2.1.13		-	
>Primary SCH Power	Μ		DL Power 9.2.1.21		-	
Secondary SCH Information		01			YES	reject
>Common Physical Channel ID	М		9.2.1.13		-	
>Secondary SCH Power	Μ		DL Power 9.2.1.21		-	
Primary CPICH Information		01			YES	reject
>Common Physical Channel ID	М		9.2.1.13		-	
>Primary CPICH Power	Μ		9.2.2.33		-	
Secondary CPICH Information		0 <maxs CPICHCell ></maxs 			EACH	reject
>Common Physical Channel ID	М		9.2.1.13		-	
>Secondary CPICH Power	М		DL Power 9.2.1.21		-	
Primary CCPCH Information		01			YES	reject
>BCH Information		1			-	
>Common Transport Channel ID	Μ		9.2.1.14		-	
>>BCH Power	М		DL Power 9.2.1.21		_	
IPDL Parameter Information		01			YES	reject
>IPDL FDD Parameters	0		9.2.2.18C		-	
>IPDL Indicator	М		9.2.1.36F		-	
PDSCH information		01			YES	reject
Maximum PDSCH Power	M		9.2.2.21A		-	

Range Bound Explanation			
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.		

9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	М		9.2.2.59		-	
>Min UL Channelisation	М		9.2.2.22		-	
Code Length						
>Max Number of UL	C-		9.2.2.21		_	
DPDCHs	CodeLen					
>Puncture Limit	М		9.2.1.50	For UL	_	
>TFCS	М		9.2.1.58	For UL	_	
>UL DPCCH Slot Format	Μ		9.2.2.57		_	
>UL SIR Target	M		ULSIR		_	
			9.2.1.67A			
>Diversity Mode	М		9.2.2.9		_	
>SSDT Cell ID Length	0		9.2.2.45		_	
>S Field Length	0		9.2.2.40		-	
>DPC Mode	0		9.2.2.13C		YES	reject
DL DPCH Information	-	1			YES	reject
>TFCS	м		9.2.1.58	For DL	-	10,000
>DL DPCH Slot Format	M		9.2.2.10	10102	_	
	M		9.2.2.50		_	
>TFCI Signalling Mode	C-		9.2.2.50		_	
>TFCI Presence	SlotFormat		9.2.1.57		_	
>Multiplexing Position	M		9.2.2.23		_	
>Not Used PDSCH RL ID	OC-DSCH		NULL RL ID		_	
> <u>Not Osed</u> Pool RE ID	<u>0</u> 0-00011		9.2.1.53			
> <u>Not Used</u> PDSCH Code	OC-DSCH		<u>NULL9.2.2.</u>		-	
Mapping			25			
>Power Offset		1			-	
Information						
>>PO1	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits	-	
>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>FDD TPC DL Step Size	М		9.2.2.16		-	
>Limited Power Increase	М		9.2.2.18A		—	
>Inner Loop DL PC Status	М		9.2.2.18B		_	
DCH Information	М		DCH FDD Information 9.2.2.4D		YES	reject
DSCH Information	θ		DSCH FDD Information 9.2.2.13B		YES	reject
TFCI2 Bearer Information		01			YES	ignore

>ToAWS	M		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
<mark>>Binding ID</mark>	Ð		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	¥ES	ignore
→Transport Layer Address	θ		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	¥ES	ignoro
RL Information		1 <maxno ofRLs></maxno 			EACH	notify
>RL ID	М		9.2.1.53		_	
>C-ID	М		9.2.1.9		_	
>First RLS Indicator	М		9.2.2.16A		_	
>Frame Offset	М		9.2.1.31		_	
>Chip Offset	М		9.2.2.2		_	
>Propagation Delay	0		9.2.2.35		_	
>Diversity Control Field	C- NotFirstRL		9.2.1.25		-	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		-	
>Initial DL Transmission Power	Μ		DL Power 9.2.1.21	Initial power on DPCH	-	
>Maximum DL Power	M		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum DL Power	Μ		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>SSDT Cell Identity	0		9.2.2.44		—	
>Transmit Diversity Indicator	C-Diversity mode		9.2.2.53		-	
SSDT Cell Identity For EDSCHPC	C- EDSCHPC		9.2.2.44A		YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>Delayed Activation	0		9.2.1.24C		YES	reject
>Qth Parameter	0		9.2.2.36A		YES	ignore
 Primary CPICH Usage For Channel Estimation 	0		9.2.2.33A		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
DSCH Common Information	Q		DSCH FDD Common Information 9.2.2.13D		¥ES	ignore
DL Power Balancing Information	0		9.2.2.12B		YES	ignore
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.18D		YES	reject
HS-DSCH-RNTI	C- InfoHSDS CH		9.2.1.31J		YES	reject
HS-PDSCH RL ID	C-		RL ID		YES	reject

InfoHSDS	9.2.1.53		
СН			

Condition	Explanation
CodeLen	The IE shall be present if <i>Min UL Channelisation Code Length</i> IE equals to 4.
NotFirstRL	The IE shall be present if the RL is not the first one in the RL Information IE.
DSCH	The IE shall be present if the DSCH Information IE is present.
SlotFormat	The IE shall be present if the <i>DL DPCH Slot Format</i> IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> IE is not set to "none".
EDSCHPC	The IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE.
InfoHSDSCH	The IE shall be present if HS-DSCH Information IE is present.

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

9.1.37 RADIO LINK SETUP RESPONSE

9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		—	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	Μ		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port	М		9.2.1.15		YES	ignore
RL Information Response		1 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	М		9.2.2.39		-	
>Received Total Wide Band Power	Μ		9.2.2.39A		-	
>CHOICE Diversity Indication	М				_	
>>Combining					-	
>>>RL ID	Μ		9.2.1.53	Reference RL ID for the combining	_	
>>Non Combining or First RL					_	
>>>DCH Information Response	М		9.2.1.20C		-	
> <u>Not Used</u> DSCH Information Response	0		<u>NULL9.2.1.</u> 27A		<u>-</u> ¥ES	ignore
>SSDT Support Indicator	М		9.2.2.46		_	
>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
TFCI2 Bearer Information Response	θ		9.2.2.49A		YES	ignore
Criticality Diagnostics	0	T	9.2.1.17		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.18E		YES	ignore

Range Bound Explanation	
maxnoofRLs	Maximum number of RLs for one UE

9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Desemption		ontiounty
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	М		9.2.1.15		YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		—	
>UL Time Slot ISCP Info	М		9.2.3.26D		-	
>UL PhysCH SF Variation	М		9.2.3.26B		-	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		_	
>UL Time Slot ISCP Info LCR	Μ		9.2.3.26F		_	
>UL PhysCH SF Variation	М		9.2.3.26B		-	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.5G		YES	ignore

9.1.38 RADIO LINK SETUP FAILURE

9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	C-Success		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port	0		9.2.1.15		YES	ignore
CHOICE Cause Level	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.6		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>Cause	М		9.2.1.6		-	
>>Successful RL Information Response		0 <maxno ofRLs></maxno 		Note: There will never be maxnoofRLs repetitions of this sequence.	EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>RL Set ID	М		9.2.2.39		_	
>>Received Total Wide Band Power	Μ		9.2.2.39A		_	
>>>CHOICE Diversity Indication	М				_	
>>>Combining					-	
>>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	_	
>>>Non Combining or First RL					_	
>>>>DCH Information Response	M		9.2.1.20C		_	
>>> <u>Not Used</u> DSCH Information Response	0		<u>NULL</u> 9.2.1. 27A		<u>-Yes</u>	ignore
>>> <u>Not Used</u> TFCI2 Bearer Information Response	0		<u>NULL9.2.2.</u> 49A	There shall be only one TFCI2 bearer per Node B Communication Context.	_	
>>>SSDT Support Indicator	М		9.2.2.46		_	
>>>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>HS-DSCH Information	0		HS-DSCH		YES	ignore

Response		FDD		
		Information		
		Response		
		9.2.2.18E		
Criticality Diagnostics	0	9.2.1.17	YES	ignore

Condition	Explanation
Success	The IE shall be present if at least one of the radio links has been
	successfully set up.

Range Bound	Explanation		
maxnoofRLs	Maximum number of RLs for one UE		

9.1.40 RADIO LINK ADDITION RESPONSE

9.1.40.1 FDD message

UNAFFECTED TEXT IS REMOVED

9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	reject
Transaction ID	Μ		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		-	
>UL Time Slot ISCP Info	М		9.2.3.26D		_	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information		01	0.2.0.202		_	
>>CHOICE Diversity Indication	М				_	
>>>Combining				Indicates whether the old Transport Bearer shall be reused or not	_	
>>>RL ID	М		9.2.1.53	Reference RL	-	
>>>Non Combining					-	
>>>DCH Information Response	М		9.2.1.20C		_	
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		-	
>UL Time Slot ISCP Info LCR	М		9.2.3.26F		_	
>UL PhysCH SF Variation	Μ		9.2.3.26B		-	
>DCH Information		01			_	
>>CHOICE Diversity indication	М				_	
>>>Combining				Indicates whether the old Transport Bearer shall be reused or not	_	
>>>RL ID	Μ		9.2.1.53	Reference RL	-	
>>>Non Combining	1				-	
>>>DCH Information Response	М		9.2.1.20C		-	
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore

9.1.42 RADIO LINK RECONFIGURATION PREPARE

9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
UL DPCH Information		01			YES	reject
>UL Scrambling Code	0		9.2.2.59		-	
>UL SIR Target	0		UL SIR 9.2.1.67A		_	
>Min UL Channelistion Code Length	0		9.2.2.22		_	
>Max Number of UL DPDCHs	C- CodeLen		9.2.2.21		-	
>Puncture Limit	0		9.2.1.50	For UL	-	
>TFCS	0		9.2.1.58		_	
>UL DPCCH Slot Format	0		9.2.2.57		_	
>Diversity Mode	0		9.2.2.9		_	
>SSDT Cell Identity Length	0		9.2.2.45		—	
>S-Field Length	0		9.2.2.40		—	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58		-	
>DL DPCH Slot Format	0		9.2.2.10		_	
>TFCI Signalling Mode	0		9.2.2.50		-	
>TFCI Presence	C- SlotFormat		9.2.1.57		_	
>Multiplexing Position	0		9.2.2.23		—	
> <u>Not Used</u> PDSCH Code Mapping	0		<u>NULL</u> 9.2.2. 25		_	
> <u>Not Used</u> PDSCH RL ID	0		<u>NULLRL ID</u> 9.2.1.53		-	
>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	М		9.2.1.20		-	
DSCH To Modify		0 <maxno ofDSCHs></maxno 			EACH	reject
>DSCH ID	M		9.2.1.27		-	
>Transport Format Set	θ		9.2.1.59	For the DL.	-	
>Allocation/Retention Priority	θ		9.2.1.1A		-	
→Frame Handling Priority	θ		9.2.1.30		-	
>ToAWS	θ		9.2.1.61		-	
>ToAWE	θ		9.2.1.60		_	

	M		9.2.1.62A		_	
Transport Bearer Request Indicator	IVI .		9.2.1.02/		_	
→Binding ID	θ		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	¥ ES	ignore
>Transport Layer Address	Ð		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	¥ES	ignore
DSCH To Add	θ		DSCH FDD Information 9.2.2.13B		YES	reject
DSCH To Delete		0<maxno< del=""> ofDSCHs></maxno<>			EACH	reject
>DSCH ID	M		9.2.1.27		_	
TFCI2 Bearer Information		01			YES	reject
>CHOICE TFCI2 Bearer	₩				_	
Action	+					
>>Add or modify	M		9.2.1.61		_	
>>>ToAWS	₩ M		9.2.1.61 9.2.1.60		_	
>>>ToAWE	₩		9.2.1.56C		- YES	reject
>>>TFCl2 Bearer	₽		9.2.1.000		+60	reject
Request Indicator >>Binding ID	0		9.2.1.4	Shall be	YES	ignore
>>>binding ib	•		0.2.1.4	ignored if bearer establishment with ALCAP.	TEO	gnore
>>>Transport Layer Address	Ð		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>Delete			NULL		-	
RL Information		0 <maxno ofRLs></maxno 			EACH	reject
>RL ID	М		9.2.1.53		-	
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		_	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>SSDT Indication	0		9.2.2.47		-	
>SSDT Cell Identity	C- SSDTIndO N		9.2.2.44		_	
>Transmit Diversity Indicator	C-Diversity mode		9.2.2.53		-	
SSDT Cell Identity For EDSCHPC	C- EDSCHPC		9.2.2. 44A		¥ES	ignoro
>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
>DL DPCH Timing	0		9.2.2.10A	Required RL	YES	reject

Adjustment			Timing Adjustment		
>Qth Parameter	0	9.2.2.36A		YES	ignore
>Primary CPICH Usage For Channel Estimation	0	9.2.2.33A		YES	ignore
>Secondary CPICH Information Change	0	9.2.2.43A		YES	ignore
Transmission Gap Pattern Sequence Information	0	9.2.2.53A		YES	reject
DSCH Common Information	θ	DSCH FDD Common Information 9.2.2.13D		YES	ignore
Signalling Bearer Request Indicator	0	9.2.1.55A		YES	reject
HS-DSCH Information	0	HS-DSCH FDD Information 9.2.2.18D		YES	reject
HS-DSCH Information To Modify	0	9.2.1.31H		YES	reject
HS-DSCH MAC-d Flows To Add	0	HS-DSCH MAC-d Flows Information 9.2.1.31IA		YES	reject
HS-DSCH MAC-d Flows To Delete	0	9.2.1.31IB		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink	9.2.1.31J		YES	reject
HS-PDSCH RL ID	0	RL ID 9.2.1.53		YES	reject

Condition	Explanation
SSDTIndON	The IE shall be present if the SSDT Indication IE is set to "SSDT Active
	in the UE".
CodeLen	The IE shall be present if the Min UL Channelisation Code Length IE is
	equals to 4.
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to any of
	the values from 12 to 16.
Diversity mode	The IE shall be present if the Diversity Mode IE is present in the UL
	DPCH Information IE and is not set to "none".
EDSCHPC	The IE shall be present if the Enhanced DSCH PC IE is present in the
	DSCH Common Information IE.
HSDSCHRadio Link	The IE shall be present if HS-PDSCH RL ID IE is present.

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofDSCHs	Maximum number of DSCHs for a UE
maxnoofRLs	Maximum number of RLs for a UE

9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
>UL DPCH To Add Per RL		0 <maxno ofRLs></maxno 		See note 1 below	_	
>>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		—	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>UL Timeslot Information	Μ		9.2.3.26C		-	
>>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>UL Timeslot Information LCR	М		9.2.3.26E		_	
>>UL SIR Target	0		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>>TDD TPC UL Step Size	0		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>RL ID	0		9.2.1.53		YES	ignore
UL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	0		9.2.1.58		-	
>TFCI Coding	0		9.2.3.22		-	
>Puncture Limit	0		9.2.1.50		-	
>UL DPCH To Modify Per RL		0 <maxno ofRLs></maxno 		See note 1 below	_	
>>UL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		-	

>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>UL Timeslot	M		9.2.3.26C		_	
	101		0.2.0.200			
Information		01			YES	reject
>>UL DPCH To Modify	0	01	9.2.3.16		TES	Tejeci
>>>Repetition Period	-				_	
>>>Repetition Length	0		9.2.3.15		_	
>>>TDD DPCH Offset	0		9.2.3.19A		-	
>>>UL Timeslot		0 <maxno< td=""><td></td><td>Applicable to</td><td>-</td><td></td></maxno<>		Applicable to	-	
Information		ofULts>		3.84Mcps TDD		
s s s Time Slot	М		9.2.3.23	only	_	
>>>>Time Slot	0		9.2.3.7			
>>>>Midamble Shift	U		9.2.5.7			
And Burst Type	0		9.2.1.57		_	
>>>TFCI Presence	0	0 (2000)	9.2.1.57			
>>>>UL Code		0 <maxno ofDPCHs></maxno 			_	
Information		0101 01132	0.0.0.5			
>>>>DPCH ID	M		9.2.3.5		—	
>>>>TDD	0		9.2.3.19		-	
Channelisation Code						
>>>UL Timeslot		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
Information LCR		ofULtsLCR		1.28Mcps TDD		
T : 01 (100	M	>	9.2.3.24A	only	_	
>>>>Time Slot LCR					_	
>>>>Midamble Shift	0		9.2.3.7A			
LCR	-		0.0.1.57			
>>>>TFCI Presence	0	-	9.2.1.57		-	
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information LCR		OfDPCHL CR>				
>>>>DPCH ID	M	0//2	9.2.3.5		_	
	0		9.2.3.19a			
>>>>TDD	0		9.2.3.19d		_	
Channelisation Code						
LCR	0		9.2.3.21C		YES	
>>>> TDD UL	0		9.2.3.210		TES	reject
DPCH Time Slot						
Format LCR					01.05.11	
>>UL DPCH To Delete		0 <maxno ofDPCHs></maxno 			GLOBAL	reject
	M	010FCHS>	9.2.3.5			
>>>DPCH ID		01	9.2.3.5	Applicable to	YES	rojoct
>>UL DPCH To Add LCR		01		1.28Mcps TDD	TES	reject
				only		
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	M		9.2.3.15	1	_	
>>>TDD DPCH Offset	M		9.2.3.19A			
>>>UL Timeslot	M		9.2.3.26E			
			0.2.0.20L		—	
Information LCR	0		UL SIR	Applicable to	YES	roicot
>>UL SIR Target			9.2.1.67A	1.28Mcps TDD	1E3	reject
			0.2.1.0/A	only		
>>TDD TPC UL Step Size	0		9.2.3.21a	Applicable to	YES	reject
				1.28Mcps TDD		,
				only		
>>RL ID	0		9.2.1.53		YES	ignore
		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
UL CCTrCH To Delete		ofCCTrCH				
UL CCTrCH To Delete						
		s>				
UL CCTrCH To Delete	M	S>	9.2.3.3		-	
	M		9.2.3.3		– GLOBAL	reject

>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
>TPC CCTrCH List		0 <maxno ofCCTrCH s></maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		_	
>DL DPCH To Add Per RL		0 <maxno ofRLs></maxno 		See Note 1 below	_	
>>DL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>DL Timeslot Information	М		9.2.3.4E		-	
>>DL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16	-	_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>DL Timeslot Information LCR	М		9.2.3.40		-	
>>CCTrCH Initial DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>>TDD TPC DL Step Size	0		9.2.3.21		YES	reject

>>CCTrCH Maximum DL	0		DL Power		YES	ignore
Transmission Power			9.2.1.21			
>>CCTrCH Minimum DL	0		DL Power		YES	ignore
Transmission Power >>RL ID	0		9.2.1.21 9.2.1.53		YES	ignore
	0	0 <maxno< td=""><td>9.2.1.55</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	9.2.1.55		GLOBAL	reject
DL CCTrCH To Modify		ofCCTrCH s>			GLODAL	reject
>CCTrCH ID	М		9.2.3.3		—	
>TFCS	0		9.2.1.58		-	
>TFCI Coding	0		9.2.3.22		-	
>Puncture Limit	0		9.2.1.50		_	
>TPC CCTrCH List		0 <maxno ofCCTrCH s></maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		-	
>DL DPCH To Modify Per RL		0 <maxno ofRLs></maxno 		See Note 1 below	-	
>>DL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16	,,	_	
>>>Repetition Length	M		9.2.3.15		_	
>>>TDD DPCH Offset	M		9.2.3.19A		_	
>>>DL Timeslot	M		9.2.3.4E		_	
Information			0.2.01.2			
>>DL DPCH To Modify		01			YES	reject
>>>Repetition Period	0		9.2.3.16		-	. eje et
>>>Repetition Length	0		9.2.3.15		_	
>>>TDD DPCH Offset	0		9.2.3.19A		_	
>>>DL Timeslot	0	0 <maxno< td=""><td>0.2.0.10/1</td><td>Applicable to</td><td>_</td><td></td></maxno<>	0.2.0.10/1	Applicable to	_	
Information		ofDLts>		3.84Mcps TDD only		
>>>>Time Slot	М		9.2.3.23		-	
>>>>Midamble Shift And Burst Type	0		9.2.3.7		-	
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information		ofDPCHs>				
>>>>DPCH ID	М		9.2.3.5		-	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code						
>>>DL Timeslot Information LCR		0 <maxno ofDLtsLCR ></maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	M		9.2.3.24A	Silly	_	
>>>>Midamble Shift	0		9.2.3.7A			
LCR			00.77			
>>>>TFCI Presence	0		9.2.1.57		_	
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information LCR		ofDPCHsL CR>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD Channelisation Code LCR	0		9.2.3.19a		-	
>>>>TDD DL DPCH Time Slot Format LCR	0		9.2.3.19D		YES	reject

	1		0	1	, , , , , , , , , , , , , , , , , , , ,	
>>>Maximum DL Power to Modify LCR	0		DL Power 9.2.1.21	Maximum allowed power	YES	ignore
>>>>Minimum DL	0		DL Power	on DPCH Minimum	YES	ignore
Power to Modify LCR			9.2.1.21	allowed power on DPCH		
>>DL DPCH To Delete		0 <maxno ofDPCHs></maxno 			GLOBAL	reject
>>>DPCH ID	М		9.2.3.5		-	
>>DL DPCH To Add LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>DL Timeslot Information LCR	Μ		9.2.3.40		_	
>>TDD TPC DL Step Size	0		9.2.3.21		YES	reject
>>Maximum CCTrCH DL Power to Modify	0		DL Power 9.2.1.21		YES	ignore
>>Minimum CCTrCH DL Power to Modify	0		DL Power 9.2.1.21		YES	ignore
>>RL ID	0		9.2.1.53		YES	ignore
DL CCTrCH To Delete		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		-	
DCHs To Modify	0		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDCHs></maxno 	0.2.0.10		GLOBAL	reject
>DCH ID	М		9.2.1.20		-	
DSCH To Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2. <u>3.x1</u> 4.2 7		-	
>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	0		9.2.1.59		-	
>Allocation/Retention Priority	0		9.2.1.1A		-	
>Frame Handling Priority	0		9.2.1.30		-	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60			
>Transport Bearer Request	М	1	9.2.1.62A		_	
Indicator						
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
DSCH To Add	0		DSCH TDD		YES	reject

			Information 9.2.3.5A			
DSCH To Delete		0 <maxno< td=""><td>9.2.3.3A</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	9.2.3.3A		GLOBAL	reject
>DSCH ID	M	ofDSCHs>	9.2. <u>3.x1</u> 1.2		_	
		0	7		GLOBAL	raiaat
USCH To Modify		0 <maxno ofUSCHs></maxno 			GLUBAL	reject
>USCH ID	М		9.2.3.27		-	
>Transport Format Set	0		9.2.1.59		-	
>Allocation/Retention Priority	0		9.2.1.1A		-	
>CCTrCH ID	0		9.2.3.3	UL CCTrCH in which the USCH is mapped	_	
>Transport Bearer Request Indicator	М		9.2.1.62A		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.58A		YES	ignore
USCH To Add	0		USCH Information 9.2.3.28		YES	reject
USCH To Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		-	
RL Information		0 <maxno ofRLs></maxno 		See Note 1 below	YES	reject
>RL ID	М		9.2.1.53		—	
>Maximum Downlink Power	0		DL Power 9.2.1.21		-	
>Minimum Downlink Power	0		DL Power 9.2.1.21		_	
>Initial DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		-	
>DL Time Slot ISCP Info LCR	0		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	ignore
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information		YES	reject

		9.2.3.5F		
HS-DSCH Information To Modify	0	9.2.1.31H	YES	reject
HS-DSCH MAC-d Flows To Add	0	HS-DSCH MAC-d Flows Information 9.2.1.31IA	YES	reject
HS-DSCH MAC-d Flows To Delete	0	9.2.1.31IB	YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink	9.2.1.31J	YES	reject
HS-PDSCH RL ID	0	RL ID 9.2.1.53	YES	reject
PDSCH-RL-ID	0	RL ID 9.2.1.53	YES	ignore

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

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

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD
maxnoofDPCHsLCR	Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD
maxnoofDSCHs	Maximum number of DSCHs for one UE
maxnoofUSCHs	Maximum number of USCHs for one UE
maxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps
	TDD
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps
	TDD
maxnoofULts	Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD
maxnoofRLs	Maximum number of RLs for one UE

9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
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
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A	TDD only	YES	ignore
>USCH Information Response	0		9.2.3.29	TDD only	YES	ignore
> <u>Not Used</u> TFCI2 Bearer Information Response	0		<u>NULL9.2.2.</u> 49A	FDD only. There shall be only one TFCI2 bearer per Node B Communication Context.	_	
>DL Power Balancing Updated Indicator	0		9.2.2.12D		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		Communica tion Control Port ID 9.2.1.15		YES	ignore
HS-DSCH FDD Information Response	0		9.2.2.18E	FDD only	YES	ignore
HS-DSCH TDD Information Response	0		9.2.3.5G	TDD only	YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE

9.1.87 BEARER REARRANGEMENT INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	ignore
DCHs To Re-arrange		0 <maxno ofDCHs></maxno 			GLOBAL	ignore
>DCH ID	Μ		9.2.1.20		—	
DSCHs To Re-arrange		0 <maxno ofDSCHs></maxno 		TDD only	GLOBAL	ignore
>DSCH ID	М		9.2. <u>3.x1</u> 4.2 7		_	
USCHs To Re-arrange		0 <maxno ofUSCHs></maxno 		TDD only	GLOBAL	ignore
>USCH ID	М		9.2.3.27		-	
TFCI2 Bearer Request Indicator	θ		9.2.1.56C	FDD only	YES	ignore
HS-DSCHs MAC-d Flow To Re-arrange		0 <maxno ofMACdFI ows></maxno 			GLOBAL	ignore
>HS-DSCH MAC-d Flow ID	М		9.2.1.311		_	

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofDSCHs	Maximum number of DSCHs for a UE
maxnoofUSCHs	Maximum number of USCHs for a UE
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows

9.2.1.20A Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the [FDD - allocated Spreading Factor and the RL/RLS situation] [TDD – allocated Spreading Factor on each DPCH and the assigned timeslot]. [FDD - In Uplink, the reference spreading factor shall be the minimum spreading factor signalled in the Radio Link Setup Request message (*Min UL Channelisation Code Length* IE).]

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

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion
- [TDD Physical Shared Channel Reconfiguration]

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

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

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

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

[FDD When a PDSCH is allocated in the Radio Link Setup procedure, the processing cost associated to this PDSCH, equal to the DL cost RL, shall be debited from the Capacity Credit, in addition to the processing cost of the radio links. In a similar way, this cost shall be credited to the Capacity Credit, when a PDSCH is deleted and the difference between the new cost and the old cost shall be debited from the Capacity Credit (or credited if this difference is negative) when a PDSCH is reconfigured.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by either the radio links-or the PDSCH, the cost credited to or debited from the Capacity Credit shall be taken as N times the cost for one code, where N is the number of channelization codes.]

[TDD -The cost for a radio link is a sum of the costs for each DPCH. For the first DPCH assigned to any user in a cell within a timeslot, the initial cost for a DPCH in a timeslot (cost 1) and the cost for a DPCH (cost 2) shall be taken into account. For any DPCH that is not the first DPCH assigned for any user in a cell within a timeslot, only the cost for a DPCH (cost 2) shall be taken into account.]

[TDD – The cost for shared channels is the sum of the costs for each PDSCH and PUSCH assigned to a PUSCH or PDSCH set. For the first PDSCH or PUSCH assigned to any user in a cell within a timeslot, the initial cost for a PDSCH/PUSCH in a timeslot (cost 1) and the cost for a PDSCH/PUSCH (cost 2) shall be taken into account. For any PDSCH/PUSCH that is not the first PDSCH/PUSCH assigned to any user in a cell within a timeslot, only the cost for a PDSCH/PUSCH (cost 2) shall be taken into account.]

[TDD - In the case of Physical Shared Channel Reconfiguration, the sum of the consumption cost of the each PDSCH/PUSCH of the previous configuration shall be credited to the capacity credit, and the sum of the consumption cost of each PDSCH/PUSCH of the new configuration shall be subtracted from the capacity credit.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1 <maxno ofSFs></maxno 		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD – For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL Cost 1	M		INTEGER (065535)	[FDD – This is the cost of a RLS.] [TDD – This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>DL Cost 2	М		INTEGER (065535)	[FDD – This is the cost of a RL.] [TDD – This is the cost of a DPCH/PDSCH/PUSCH]
>UL Cost 1	M		INTEGER (065535)	FDD – This is the cost of a RLS.] [TDD – This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>UL Cost 2	М		INTEGER (065535)	[FDD – This is the cost of a RL.] [TDD – This is the cost of a DPCH/PDSCH/PUSCH.]

Range Bound	Explanation
maxnoofSFs	Maximum number of Spreading Factors

9.2.1.27 DSCH ID

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

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

9.2.1.27A DSCH Information Response

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH Information Response		1<maxno< del=""> ofDSCHs></maxno<>		
>DSCH ID	₩		9.2.1.27	
>Binding ID	θ		9.2.1.4	
>Transport Layer Address	Ð		9.2.1.63	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE

9.2.1.30 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH_<u>[TDD - </u>*A*DSCH] for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER (015)	"0" = lowest priority,
				 "15" = highest priority

9.2.1.56C TFCI2 Bearer Request Indicator

<u>Void</u>.*TFCI2* Bearer Request Indicator IE indicates if a new transport bearer on which the DSCH TFCI Signaling control frames shall be received is required.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI2 Bearer Request			ENUMERATED	
Indicator			(New Bearer	
			Requested)	

9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

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

Method #1 TFCI range

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

Method #2 Explicit

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE DSCHTFCS Values	Μ			
> <u>Always UsedNo split in</u> TECI				This choice is <u>always</u> made_ <u>if</u> ; a) The TFCS refers to the Uplink. OR b) The mode is FDD and none of the Radio Links of the concerned UE are assigned any DSCH transport channels. OR c) The mode is TDD.
>>TFCS		1 <maxno ofTFCs></maxno 		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	Μ		9.2.1.18A	
>>>CHOICE Gain Factors	C- PhysChan			
>>>Signalled Gain Factors				
>>>>CHOICE Mode	M			
>>>>> <i>FDD</i> >>>>>Gain Factor β _C	M		INTEGER (015)	For UL DPCCH or control part of PRACH or control part of PCPCH in FDD; mapping in accordance to [9]
>>>>>Gain Factor β _D	М		INTEGER (015)	For UL DPDCH or data part of PRACH or data part of PCPCH in FDD: mapping in accordance to [9]
>>>>TDD				
>>>>>Gain Factor β	М		iNTEGER (015)	For UL DPCH in TDD; mapping in accordance to [20].
>>>>Reference TFC	0		INTEGER (03)	If this TFC is a reference TFC, this IE indicates the reference number.
>>>>Computed Gain Factors				
>>>>Reference TFC nr	М		INTEGER (03)	Indicates the reference TFC to be used to calculate the gain factors for this TFC.
> <u>Not Used</u> There is a split in the TFCI			NULL	This choice ishall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.: a) The TFCS refers to the Downlink. AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned one or more DSCH transport channels.
→ Transport Format Combination DCH		1<maxtf< del=""> CI_1_Com bs></maxtf<>		The first instance of the <i>Transport Format Combination</i> <i>DCH</i> IE corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	₩		CTFC 9.2.1.18A	
>>CHOICE Signalling	M			

Method				
>>>>TFC Mapping On DSCH		1<maxno< del=""> TFCIGrou ps></maxno<>		
>>>>Max TFCI(field2) Value	М		INTEGER (11023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field2)	Μ		CTFC 9.2.1.18A	
>>>Transport Format Combination DSCH		1<maxtf< del=""> CI_2_Com bs></maxtf<>		The first instance of the Transport Format Combination DSCH IE corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field2)	Μ		CTFC 9.2.1.18A	

Condition	Explanation
PhysChan	The IE shall be present if the TFCS concerns a UL DPCH or PRACH
	channel [FDD – or PCPCH channel].

Range Bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations
maxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to
	the power of the length of the TFCI (field 1))
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to
	the power of the length of the TFCI (field 2))
maxNoTFCIGroups	Maximum number of groups, each group described in terms of a
	range of TFCI(field 2) values for which a single value of CTFC(field2)
	applies

9.2.2.13B DSCH FDD Information

$-$ Void The DSCH FDD I_{ν}	formation IF 1	provides information	for DSCHs to be established.
Vulu. The Doen TDD In	Jornanon IL	provides information	TOT DOCTIS to be estublished.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH FDD Information		1<max< del=""> noofDS CHs></max<>			_	
>DSCH ID	₩		9.2.1.27		_	
<mark>>Transport Format</mark> Set	м		9.2.1.59	For DSCH	-	
Allocation/Retention Priority	М		9.2.1.1A		-	
Frame Handling Priority	M		9.2.1.30		-	
>ToAWS	₩		9.2.1.61		_	
>ToAWE	H		9.2.1.60		-	
>Binding ID	Ð		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
<mark>≻Transport Layer</mark> Address	θ		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore

	Range Bound	Explanation
maxnoofl	DSCHs	Maximum number of DSCHs for one UE

9.2.2.13D DSCH FDD Common Information

<u>Void. The DSCH Common Information includes common information for all DSCHs for one UE.</u>

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Indicator	θ		9.2.2.13G	
Enhanced DSCH PC	C- EDSCHPC On		9.2.2.13E	

Condition	Explanation
EDSCHPCOn	The IE shall be present if the Enhanced DSCH PC Indicator IE is set
	to "Enhanced DSCH PC Active in the UE".

9.2.2.13E Enhanced DSCH PC

<u>Void</u>. The Enhanced DSCH PC includes all the parameters which are needed for DSCH power control improvement during soft handover.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd	M		9.2.2.13H	
Enhanced DSCH PC Counter	M		9.2.2.13F	
Enhanced DSCH Power Offset	₩		9.2.2.13I	

9.2.2.13F Enhanced DSCH PC Counter

<u>Void</u>. The Enhanced DSCH PC Counter parameter gives the number of correct cell ID command to receive in the averaging window, *Enhanced DSCH PC Wnd* IE, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Counter			INTEGER(150)	

9.2.2.13G Enhanced DSCH PC Indicator

Void. The Enhanced DSCH PC Indicator indicates whether Enhanced DSCH PC is in use by the UE or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Indicator			ENUMERATED (Enhanced DSCH PC Active in the UE, Enhanced DSCH PC not Active in the UE)	

9.2.2.13H Enhanced DSCH PC Wnd

<u>Void</u>. The Enhanced DSCH PC Wnd parameter shows the window size to decide primary or non-primary cell, see ref. [10] subclause 5.2.2.

İ	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
	Enhanced DSCH PC Wnd			INTEGER (110)	

9.2.2.13I Enhanced DSCH Power Offset

<u>Void</u>. The Enhanced DSCH Power Offset parameter gives the power offset to be added on DSCH when cell is decided to be primary.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH Power Offset			INTEGER (-150)	Unit: dB
				Range: -15 0 dB
				Step: 1 dB

9.2.2.21A Maximum PDSCH Power

Void. The *Maximum PDSCH Power* IE can contain for each a PDSCH SF a maximum PDSCH power. The maximum PDSCH power shall be applied for each individual channelisation code at the concerning SF when used for a PDSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum PDSCH Power SF4	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF8	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF16	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF32	0		DL Power 9.2.1.21	
Maximum PDSCH Power SF64	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF128	9		DL Power 9.2.1.21	
Maximum PDSCH Power SF256	θ		DL Power 9.2.1.21	

9.2.2.25 PDSCH Code Mapping

<u>Void</u>. This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code(s). There are three fundamentally different ways that the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will vary depending on the way in which the UTRAN configures usage of the DSCH. A fourth option is also provided which allows the UTRAN to replace individual entries in the TFCI(field 2) to PDSCH code mapping table with new PDSCH code values.

Method #1 Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. Each TFCI(field2) value corresponds to a given PDSCH channelisation code or set of PDSCH codes for multi-code. The Node B maps TFCI(field2) values to PDSCH codes in the following way:

- The PDSCH codes used for TFCI(field 2) = 0 are given by the SF of the Code Group 1 (i.e. first instance in *PDSCH Code Mapping*) and the code numbers between CodeNumber₀ (where CodeNumber₀ = "Start Code Number" of Code Group 1) and CodeNumber₀ + "Multi Code Info" 1.
- This continues with unit increments in the value of TFCI (Field2) mapped to either unit increments in code numbers or groups of contiguous code numbers in case of multi-code, this until "Stop Code Number" is reached: So the PDSCH codes used for TFCI(field 2) = k (for k > 0 and k < ("Stop Code Number" "Start Code Number" + 1) DIV k) are given by the SF of the Code Group 1 and the code numbers between CodeNumber_k= CodeNumber_{k+1} + "Multi-Code Info" and CodeNumber_k + "Multi-Code Info" 1. If "Stop Code Number" = "Start Code Number" + "Multi-Code Info" 1 then this is to be interpreted as defining the mapping between the channelisation code(s) and a single TFCI.
- The Node B constructs its mapping table by repeating this process for all the Code Groups in the order they are instantiated in *PDSCH Code Mapping*. The first TFCI(field 2) value used in each group is the largest TFCI(field 2) value reached in the previous group incremented by one.

Note: This imposes that "Stop Code Number" "Start Code Number"+ 1 is a multiple of the value "Multi Code Info" for each instance of *PDSCH Code Mapping*. Furthermore, in the case where multi code is not used, then "Multi Code Info" = 1 and the process above also applies.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code or codes for multicode.

- The set of PDSCH codes specified in the first instance applies for all values of TFCI(field 2) between 0 and the specified "Max TFCI(field2)".
- The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous instance incremented by one.
 - So the set of PDSCH codes specified in a given instance apply for all the values of TFCI(field 2) between the "Max TFCI(field2) value" specified in the previous instance incremented by one and the specified "Max TFCI(field2)" of the considered instance.

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "Multi-Code Info" -1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #3 Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code (or a set of PDSCH codes for multicode) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "Multi Code Info" -1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #4 Replace

The "TFCI (field2)" value(s) for which the mapping to PDSCH channelisation code (or a set of PDSCH codes for multicode) is changed are explicitly signalled. Furthermore, the new mapping between TFCI(field 2) value and PDSCH channelisation code(s) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "Multi Code Info" -1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code	М		9.2.2.13	Scrambling code on which PDSCH is transmitted.
CHOICE Signalling Method	М			
>>PDSCH Code Mapping		1<maxno< del=""> CodeGrou ps></maxno<>		
>>>Spreading Factor	M		ENUMERATED (4, 8, 16, 32, 64, 128, 256,)	
>>>Multi-Code Info	M		INTEGER (116)	
>>>Start Code Number	M		INTEGER (0maxCodeNumCo mp-1)	PDSCH code start, Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
>>>Stop Code Number	₩		INTEGER (0maxCodeNumCo mp-1)	PDSCH code stop, Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
≻TFCI Range				
>>DSCH Mapping		1<maxno< del=""> TFClGrou ρs></maxno<>		
>>>Max TFCI(field2) Value	₩		INTEGER (11023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading Factor	M		ENUMERATED (4, 8, 16, 32, 64, 1 28, 256,)	SF of PDSCH code
>>>Multi-Code Info	M		INTEGER (116)	
>>>Code Number	₩		INTEGER (0maxCodeNumCo mp-1)	Code number of PDSCH code. Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
>Explicit				
>>PDSCH Code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>Spreading Factor	M		ENUMERATED (4, 8, 16, 32, 64, 128, 256,)	SF of PDSCH code
>>>Multi-Code Info	M		INTEGER (116)	
>>>Code Number	M		INTEGER (0maxCodeNumCo mp-1)	Code number of PDSCH code. Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
>Replace				
>>Replaced PDSCH Code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		
>>>TFCI (field2)	M		INTEGER (01023)	Value of TFCI(field 2) for which PDSCH code mapping will be changed
>>>Spreading Factor	₩		ENUMERATED (4, 8, 16, 32, 64, 128, 256,)	SF of PDSCH code
>>>Multi-Code Info	М		INTEGER (116)	
>>>Code Number	M		INTEGER (0maxCodeNumCo mp-1)	Code number of PDSCH code. Numbering as described in [18].

		The maximum value is equal
		to the Spreading Factor - 1.

Range Bound	Explanation
maxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)
maxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.
maxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

9.2.2.44A SSDT Cell Identity For EDSCHPC

Void. The SSDT Cell Identity for EDSCHPC is a temporary ID for enhanced DSCH power control assigned to a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Cell Identity For EDSCHPC			SSDT Cell Identity 9.2.2.44	

9.2.2.49A TFCI2 Bearer Information Response

<u>Void</u>. The *TFCI2 Bearer Information Response* IE provides information for TFCI2 bearer that have been established or modified.

IE/Group Na	Presence	Range	IE Type and Reference	Semantics Description
Binding ID	₩		9.2.1.4	
Transport Layer Add	Iress M		9.2.1.63	

9.2.2.50 TFCI Signalling Mode

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Signalling Option	Μ		ENUMERATED (Normal, <u>Not Used</u> Split)	The value "Not Used" shall not be used by the CRNC. The procedure shall be rejected by the Node B if the value "Not Used" is received."Normal" : meaning no split in the TFCI field (either "Logical" or "Hard") "Split" : meaning there is a split in the TFCI field (either "Logical" or "Hard")
<u>Not Used</u> Split Type	<u>O</u> C-IfSplit		NULLENUMERATE D-(Hard , Logical)	"Hard" : meaning that TFCI (field 1) and TFCI (field 2) are block coded separately. "Logical" : meaning that on the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole is then encoded with a single block code.
Not UsedLength Of TFCI2	0		NULLINTEGER (110)	This IE indicates the length measured in number of bits of TFCI (field2).

Condition	Explanation
IfSplit	The IE shall be present if the TFCI Signalling Option IE is set to
	"Split".

9.2.3.x1 DSCH ID

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

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

9.2.3.x2 DSCH Information Response

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

IE/Group Name	Presence	Range	<u>IE Type and</u> <u>Reference</u>	Semantics Description
DSCH Information Response		<u>1<maxno< u=""> ofDSCHs></maxno<></u>		
<u>>DSCH ID</u>	<u>M</u>		<u>9.2.<mark>3.x1</mark></u>	
>Binding ID	<u>0</u>		<u>9.2.1.4</u>	
>Transport Layer Address	<u>0</u>		<u>9.2.1.63</u>	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE

9.2.3.5A DSCH TDD Information

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <max noofDS CHs></max 			-	
>DSCH ID	М		9.2. <u>3.x1</u> 1.27		-	
>CCTrCH ID	Μ		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	М		9.2.1.59	For DSCH	_	
>Allocation/Retention Priority	М		9.2.1.1A		-	
>Frame Handling Priority	М		9.2.1.30		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore

Range Bound	Explanation
MaxnoofDSCHs	Maximum number of DSCH for one UE

9.3.3 **PDU Definitions**

_ _ -- PDU definitions for NBAP. ___ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN ____ -- IE parameter types from other modules. _ _ IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator,

```
AICH-Power,
AICH-TransmissionTiming,
AllocationRetentionPriority,
APPreambleSignature,
APSubChannelNumber,
AvailabilityStatus,
BCCH-ModificationTime,
BindingID,
BlockingPriorityIndicator,
SCTD-Indicator,
Cause,
CCTrCH-ID,
CDSubChannelNumbers,
CellParameterID,
CellSyncBurstCode,
CellSyncBurstCodeShift,
CellSyncBurstRepetitionPeriod,
CellSyncBurstSIR,
CellSyncBurstTiming,
CellSyncBurstTimingThreshold,
CFN,
Channel-Assignment-Indication,
ChipOffset,
C-ID,
Closedlooptimingadjustmentmode,
CommonChannelsCapacityConsumptionLaw,
```

Compressed-Mode-Deactivation-Flag, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, Common-PhysicalChannel-Status-Information, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, CriticalityDiagnostics, CPCH-Allowed-Total-Rate, CPCHScramblingCodeNumber, CPCH-UL-DPCCH-SlotFormat, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-InformationResponse, DCH-ID, FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-DPCH-TimingAdjustment, DL-or-Global-CapacityCredit, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DLPowerAveragingWindowSize, DL-PowerBalancing-UpdatedIndicator, DL-ScramblingCode, DL-TimeslotISCP, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeslotISCPInfo, DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DSCH-ID, -DSCH-FDD-Common-Information,

DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, End-Of-Audit-Sequence-Indicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, -EnhancedDSCHPowerOffset, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset, HSDPA-Capability, HS-PDSCH-FDD-Code-Information, HS-SCCH-ID, HS-SCCH-FDD-Code-Information, HS-SICH-ID, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IB-Type, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, IPDL-TDD-Parameters-LCR, LimitedPowerIncrease, Local-Cell-ID, MaximumDL-PowerCapability, MaximumTransmissionPower, Max-Number-of-PCPCHes, MaxNrOfUL-DPDCHs, MaxPRACH-MidambleShifts, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR,

MinimumDL-PowerCapability, MinSpreadingFactor,

RL-Set-ID,

MinUL-ChannelisationCodeLength, MultiplexingPosition, NEOT. NCyclesPerSFNperiod, NFmax. NRepetitionsPerCyclePeriod, N-INSYNC-IND, N-OUTSYNC-IND, NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, NodeB-CommunicationContextID, NumberOfReportedCellPortions, NStartMessage, NSubCyclesPerCyclePeriod, PagingIndicatorLength, PayloadCRC-PresenceIndicator, PCCPCH-Power, PCP-Length, PDSCH-CodeMapping, PDSCHSet-ID, PDSCH-ID, PICH-Mode, PICH-Power, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures, PreambleThreshold, PredictedSFNSFNDeviationLimit, PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, Primary-CPICH-Usage-for-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, QE-Selector, Qth-Parameter, RACH-SlotFormat, RACH-SubChannelNumbers, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue, RequestedDataValueInformation, ResourceOperationalState,

TimingAdvanceApplied,

RL-ID, RL-Specific-DCH-Info, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID, ScramblingCodeNumber, Secondary-CPICH-Information-Change, SecondaryCCPCH-SlotFormat, Segment-Type, S-FieldLength, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateOuality, SFNSFNOuality, ShutdownTimer, SIB-Originator, SpecialBurstScheduling, SignallingBearerRequestIndicator, SSDT-Cell-Identity, SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, SyncCase, SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, T-Cell, T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR, TimeSlotDirection, TimeSlotStatus, TimingAdjustmentValue,

TnlQos, TOAWE. TOAWS . TransmissionDiversityApplied, TransmitDiversityIndicator, TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet, TransportLayerAddress, TSTD-Indicator, TUTRANGPS, TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateQuality, TUTRANGPSOuality, UARFCN, UC-Id, USCH-Information, USCH-InformationResponse, UL-CapacityCredit, UL-DPCCH-SlotFormat, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres, USCH-ID, HSDSCH-FDD-Information, HSDSCH-FDD-Information-Response, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, PrimaryCCPCH-RSCP, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, TDD-TPC-UplinkStepSize-LCR, CellSyncBurstTimingLCR, TimingAdjustmentValueLCR,

PrimaryCCPCH-RSCP-Delta

FROM NBAP-IES

PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}, NBAP-PRIVATE-IES, NBAP-PROTOCOL-IES, NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-AP-AICH-Information, id-AP-AICH-ParametersListIE-CTCH-ReconfRgstFDD, id-BCH-Information, id-BCCH-ModificationTime, id-bindingID, id-BlockingPriorityIndicator, id-Cause. id-CauseLevel-PSCH-ReconfFailure, id-CauseLevel-RL-AdditionFailureFDD. id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD, id-CCP-InformationItem-AuditRsp, id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD, id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD, id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD, id-CDCA-ICH-Information, id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD, id-CellAdjustmentInfo-SyncAdjustmntRqstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD, id-Cell-InformationItem-AuditRsp, id-Cell-InformationItem-ResourceStatusInd, id-Cell-InformationList-AuditRsp, id-CellParameterID, id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD, id-cellSyncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD,

id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD, id-CellSyncBurstInfoList-CellSyncReconfRqstTDD, id-CellSyncInfo-CellSyncReprtTDD. id-CFN. id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID, id-CPCH-Information, id-CPCH-Parameters-CTCH-SetupRsp, id-CPCH-ParametersListIE-CTCH-ReconfRgstFDD, id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-AddList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-InformationResponse, id-DCH-RearrangeList-Bearer-RearrangeInd, id-DSCH-RearrangeList-Bearer-RearrangeInd, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DelayedActivation, id-DelayedActivationList-RL-ActivationCmdFDD, id-DelayedActivationList-RL-ActivationCmdTDD, id-DelayedActivationInformation-RL-ActivationCmdFDD, id-DelayedActivationInformation-RL-ActivationCmdTDD, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,

id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD. id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD. id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRqstTDD, id-DL-DPCH-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-TimingAdjustment, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, id-DL-ReferencePowerInformationItem-DL-PC-Rgst, id-DL-PowerBalancing-UpdatedIndicator, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rgst, id-DL-TPC-Pattern01Count, id-DPC-Mode, id-DPCHConstant, id-DSCH-AddItem-RL-ReconfPrepFDD, - id DSCH-DeleteList RL ReconfPrepFDD, id-DSCHs-to-Add-TDD, id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, -id-DSCH-FDD-Information, -id-DSCH_FDD_Common_Information, id-DSCH-TDD-Information, id-DSCH-ModifyItem-RL-ReconfPrepFDD, id-DSCH-ModifyList-RL-ReconfPrepFDD, id-End-Of-Audit-Sequence-Indicator, id-FACH-Information, id-FACH-ParametersList-CTCH-ReconfRgstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstTDD, id-IndicationType-ResourceStatusInd, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp,

id-InformationExchangeObjectType-InfEx-Rprt, id-InformationReportCharacteristics, id-InformationType. id-InitDL-Power, id-InnerLoopDLPCStatus, id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRgstFDD, id-IPDLParameter-Information-Cell-SetupRgstFDD, id-IPDLParameter-Information-Cell-ReconfRqstTDD, id-IPDLParameter-Information-Cell-SetupRgstTDD, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRqstFDD, id-Local-Cell-ID. id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp, id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd, id-Local-Cell-InformationItem2-ResourceStatusInd, id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-MeasurementFilterCoefficient, id-MeasurementID. id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst, id-multipleRL-dl-DPCH-InformationList, id-multipleRL-dl-DPCH-InformationModifyList, id-multiple-RL-Information-RL-ReconfPrepTDD, id-multiple-RL-Information-RL-ReconfRqstTDD, id-multipleRL-ul-DPCH-InformationList, id-multipleRL-ul-DPCH-InformationModifyList, id-NCyclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-NumberOfReportedCellPortions, id-P-CCPCH-Information, id-P-CPICH-Information, id-P-SCH-Information, id-PCCPCH-Information-Cell-ReconfRqstTDD, id-PCCPCH-Information-Cell-SetupRqstTDD, id-PCH-Parameters-CTCH-ReconfRqstTDD, id-PCH-Parameters-CTCH-SetupRsp, id-PCH-ParametersItem-CTCH-ReconfRqstFDD, id-PCH-ParametersItem-CTCH-SetupRqstFDD, id-PCH-ParametersItem-CTCH-SetupRgstTDD, id-PCH-Information. id-PCPCH-Information, id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRgst,

id-PDSCH-Information-ModifyListIE-PSCH-ReconfRost. id-PDSCH-RL-ID. id-PDSCHSets-AddList-PSCH-ReconfRqst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst, id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information, id-PICH-Parameters-CTCH-ReconfRgstTDD, id-PICH-ParametersItem-CTCH-SetupRqstTDD, id-PowerAdjustmentType, id-Power-Local-Cell-Group-InformationItem-AuditRsp, id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList-AuditRsp, id-Power-Local-Cell-Group-InformationList-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd, id-Power-Local-Cell-Group-ID, id-PRACH-Information, id-PRACHConstant, id-PRACH-ParametersItem-CTCH-SetupRqstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-SetupRqstFDD, id-PrimaryCPICH-Information-Cell-ReconfRgstFDD, id-PrimaryCPICH-Information-Cell-SetupRgstFDD, id-Primary-CPICH-Usage-for-Channel-Estimation, id-PrimarySCH-Information-Cell-ReconfRgstFDD, id-PrimarySCH-Information-Cell-SetupRgstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRqstTDD, id-SCH-Information-Cell-SetupRgstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRqst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PUSCHConstant, id-PUSCHSets-AddList-PSCH-ReconfRgst, id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifyList-PSCH-ReconfRqst, id-Oth-Parameter, id-RACH-Information, id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRgstFDD, id-RACH-ParameterItem-CTCH-SetupRqstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-ResetIndicator, id-RL-ID. id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-AdditionRgstFDD,

id-RL-informationItem-RL-DeletionRqst, id-RL-InformationItem-RL-FailureInd. id-RL-InformationItem-RL-PreemptRequiredInd. id-RL-InformationItem-RL-ReconfPrepFDD, id-RL-InformationItem-RL-ReconfRqstFDD. id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-informationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRqstFDD, id-RL-InformationList-RL-SetupRqstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD. id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-Information-RL-AdditionRgstTDD, id-RL-Information-RL-ReconfRqstTDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRqstTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd, id-RL-Set-InformationItem-RL-RestoreInd, id-RL-Specific-DCH-Info, id-S-CCPCH-Information, id-S-CPICH-Information, id-SCH-Information. id-S-SCH-Information. id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD, id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD, id-Secondary-CPICH-Information-Change, id-SecondarySCH-Information-Cell-ReconfRqstFDD, id-SecondarySCH-Information-Cell-SetupRgstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-SFN. id-SFNReportingIndicator, id-ShutdownTimer, id-SignallingBearerReguestIndicator, id-SSDT-CellIDforEDSCHPC,

id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Successful-RL-InformationRespItem-RL-SetupFailureFDD. id-Synchronisation-Configuration-Cell-ReconfRgst, id-Synchronisation-Configuration-Cell-SetupRqst, id-SyncCase, id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH, id-SvncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell, id-TargetCommunicationControlPortID, -id-TFCI2-Bearer-Information-RL-SetupRgstFDD. id-Transmission-Gap-Pattern-Sequence-Information, id-TimeSlotConfigurationList-Cell-ReconfRgstTDD, id-TimeSlotConfigurationList-Cell-SetupRqstTDD, id-timeslotInfo-CellSyncInitiationRqstTDD, id-TimeslotISCPInfo, id-TimingAdvanceApplied, id-TnlOos, id-TransmissionDiversityApplied, id-transportlayeraddress, id-Tstd-indicator, id-UARFCNforNt, id-UARFCNforNd, id-UARFCNforNu, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRgstTDD, id-UL-DPCH-InformationList-RL-SetupRqstTDD, id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD, id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,

id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD, id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD, id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD. id-USCH-Information-Add. id-USCH-Information-DeleteList-RL-ReconfPrepTDD, id-USCH-Information-ModifyList-RL-ReconfPrepTDD, id-USCH-InformationResponse, id-USCH-Information, id-USCH-RearrangeList-Bearer-RearrangeInd, id-DL-DPCH-LCR-Information-RL-SetupRgstTDD, id-DwPCH-LCR-Information id-DwPCH-LCR-InformationList-AuditRsp, id-DwPCH-LCR-Information-Cell-SetupRqstTDD, id-DwPCH-LCR-Information-Cell-ReconfRgstTDD, id-DwPCH-LCR-Information-ResourceStatusInd, id-maxFACH-Power-LCR-CTCH-SetupRqstTDD, id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD, id-FPACH-LCR-Information, id-FPACH-LCR-Information-AuditRsp, id-FPACH-LCR-InformationList-AuditRsp, id-FPACH-LCR-InformationList-ResourceStatusInd, id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD, id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD, id-PCCPCH-LCR-Information-Cell-SetupRgstTDD, id-PCH-Power-LCR-CTCH-SetupRqstTDD, id-PCH-Power-LCR-CTCH-ReconfRqstTDD, id-PICH-LCR-Parameters-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD, id-RL-InformationResponse-LCR-RL-SetupRspTDD id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD, id-TimeSlot, id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD, id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD, id-TimeSlotLCR-CM-Rgst, id-UL-DPCH-LCR-Information-RL-SetupRgstTDD, id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD, id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD, id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD, id-UL-SIRTarget, id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,

id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-Info-DM-Rast. id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD, id-IPDLParameter-Information-LCR-Cell-SetupRgstTDD, id-IPDLParameter-Information-LCR-Cell-ReconfRgstTDD, id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst, id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRgst, id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst, id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst, id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst, id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD, id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD, id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD, id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD, id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD, id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD, id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD, id-DwPCH-Power, id-AccumulatedClockupdate-CellSyncReprtTDD, id-HSDPA-Capability, id-HSDSCH-FDD-Information, id-HSDSCH-FDD-Information-Response, id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised, id-HSDSCH-MACdFlows-to-Add, id-HSDSCH-MACdFlows-to-Delete, id-HSDSCH-RearrangeList-Bearer-RearrangeInd, id-HSDSCH-Resources-Information-AuditRsp, id-HSDSCH-Resources-Information-ResourceStatusInd, id-HSDSCH-RNTI, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSSICH-Info-DM-Rprt, id-HSSICH-Info-DM-Rgst, id-HSSICH-Info-DM-Rsp, id-PrimCCPCH-RSCP-DL-PC-RqstTDD, id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-UL-Synchronisation-Parameters-LCR, id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD, id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD, id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRgstTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRgstTDD, id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD,

id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD, id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD, id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD, id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD, id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD, id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRgstTDD, id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD, id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD, id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD, id-TimingAdjustmentValueLCR, id-PrimaryCCPCH-RSCP-Delta,

maxNrOfCCTrCHs, maxNrOfCellSyncBursts, maxNrOfCodes, maxNrOfCPCHs. maxNrOfDCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDPCHs, maxNrOfDPCHLCRs, maxNrOfDSCHs, maxNrOfFACHs, maxNrOfRLs, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPCPCHs, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHLCRs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs. maxAPSigNum, maxCPCHCell, maxFACHCell, maxFPACHCell, maxNoofLen, maxRACHCell,

maxPCPCHCell, maxPRACHCell, maxSCCPCHCell, maxSCPICHCell, maxCellinNodeB, maxCCPinNodeB, maxCommunicationContext, maxLocalCellinNodeB, maxNrOfSlotFormatsPRACH, maxIB, maxIBSEG, maxNrOfHSSCCHs, maxNrOfHSSICHs, maxNrOfHSPDSCHs, maxNrOfSyncFramesLCR, maxNrOfReceptionsperSyncFrameLCR, maxNrOfSyncDLCodesLCR, maxNrOfMACdFlows FROM NBAP-Constants;

UNCHANGED TEXT IS REMOVED

************************************	* * *			
 Cell setup request fdd				
 *********************************	* * *			
protocolExtensions ProtocolExtensionContainer {{CellS	pRequestFDD-IEs}}, SetupRequestFDD-Exter	nsions}}	OPTIONAL,	
}				
<pre>CellSetupRequestFDD-IES NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-ID { ID id-C-ID { ID id-ConfigurationGenerationID { ID id-T-Cell { ID id-UARFCNforNu { ID id-UARFCNforNd { ID id-Closed-Loop-Timing-Adjustment-Mode { ID id-PrimaryScramblingCode { ID id-PrimaryScramblingCode { ID id-DL-TPC-Pattern0lCount { ID id-SecondarySCH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCPECH-Information-Cell-SetupRqstFDD mandatory } { ID id-PrimaryCPECH-Information-Cell-SetupRqstFDD mandatory } { ID id-Limited-power-increase-information-Cell-SetupRqstFD PRESENCE mandatory }, } </pre>	CRITICALITY reject CRITICALITY reject	TYPE C-ID TYPE Configu TYPE T-Cell TYPE UARFCN TYPE UARFCN TYPE Closed TYPE Closed TYPE Primary TYPE Synchro TYPE DL-TPC TYPE DL-TPC TYPE Primary TYPE Seconda TYPE Primary	urationGenerationID mTransmissionPower looptimingadjustmentmod yScramblingCode onisation-Configuration -Pattern01Count ySCH-Information-Cell-s arySCH-Information-Cell aryCPICH-Information-Cell aryCPICH-Information-Cell	PRESENCE mandatory } n-Cell-SetupRqst PRESENCE PRESENCE mandatory } SetupRqstFDD PRESENCE 1-SetupRqstFDD PRESENCE 1-SetupRqstFDD PRESENCE st-Cell-SetupRqstFDD PRESENCE
}				
CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { {ID id-IPDLParameter-Information-Cell-SetupRqstFDD Cell-SetupRqstFDD PRESENCE optional }+ {ID id-PDSCH-Information-Cell_SetupRqstFDD CRI	CRITICALITY	reject	EXTENSION	IPDLParameter-Information-
SetupRqstFDD PRESENCE optional },		BATBIOT		
}				
Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE {n-INSYNC-INDN-INSYNC-IND,n-OUTSYNC-INDN-OUTSYNC-IND,t-RLFAILURET-RLFAILURE,iE-ExtensionsProtocolExtensionContainer { { Synce	chronisation-Configu	ration-Cell-Se	etupRqst-ExtIEs} }	OPTIONAL,

```
. . .
}
Synchronisation-Configuration-Cell-SetupRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
PrimarySCH-Information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
    transmitDiversitvIndicator
                                            TransmitDiversityIndicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
           id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
    { ID
                                                                     CRITICALITY
                                                                                     reject
                                                                                                                      TYPE SecondaryCPICH-
InformationItem-Cell-SetupRqstFDD
                                        PRESENCE
                                                    mandatory}
}
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
```

```
dl-ScramblingCode
                                             DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                             FDD-DL-ChannelisationCodeNumber,
    secondaryCPICH-Power
                                             DL-Power.
    transmitDiversityIndicator
                                             TransmitDiversityIndicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                            OPTIONAL.
    . . .
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    bCH-information
                                             BCH-Information-Cell-SetupRgstFDD,
    sTTD-Indicator
                                             STTD-Indicator,
                                             ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
                                             CommonTransportChannelID,
    commonTransportChannelID
    bCH-Power
                                             DL-Power,
    iE-Extensions
                                             ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
    powerRaiseLimit
                                             PowerRaiseLimit,
    dLPowerAveragingWindowSize
                                             DLPowerAveragingWindowSize,
                                             ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDLParameter-Information-Cell-SetupRqstFDD::= SEQUENCE {
    iPDL-FDD-Parameters
                                                 IPDL-FDD-Parameters,
    iPDL-Indicator
                                                 IPDL-Indicator,
                                             ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
```

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IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ...
}

PDSCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
 maximum PDSCH Power Maximum PDSCH Power,
 iE Extensions ProtocolExtensionContainer { [PDSCH-Information Cell SetupRqstFDD ExtIEs] OPTIONAL,
 ...
}

PDSCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 ...
}

UNCHANGED TEXT IS REMOVED

}

 CELL RECONFIGURATION REQUEST FDD	

CellReconfigurationRequestFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellReconfig protocolExtensions ProtocolExtensionContainer {{CellReco 	<pre>gurationRequestFDD-IEs}}, onfigurationRequestFDD-Extensions}} OPTIONAL,</pre>
}	
CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-C-ID PRESENCE mandatory }	CRITICALITY reject TYPE C-ID
{ ID id-ConfigurationGenerationID PRESENCE mandatory }	CRITICALITY reject TYPE ConfigurationGenerationID
{ ID id-MaximumTransmissionPower PRESENCE optional }	CRITICALITY reject TYPE MaximumTransmissionPower
{ ID id-Synchronisation-Configuration-Cell-ReconfRqst PRESENCE optional }	CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
{ ID id-PrimarySCH-Information-Cell-ReconfRqstFDD PRESENCE optional }	CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
{ ID id-SecondarySCH-Information-Cell-ReconfRqstFDD PRESENCE optional }	CRITICALITY reject TYPE SecondarySCH-Information-Cell-ReconfRqstFDD
{ ID id-PrimaryCPICH-Information-Cell-ReconfRqstFDD PRESENCE optional }	CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD
{ ID id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD PRESENCE optional }	CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-ReconfRqstFDD
<pre>{ ID id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD PRESENCE optional },</pre>	CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
}	
CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION :	::= {
<pre>{ID id-IPDLParameter-Information-Cell-ReconfRqstFDD CRITICALIT PRESENCE optional }+</pre>	TY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
	rr reject Extension Posch information cell Reconfrequendo
}	
Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE { n-INSYNC-IND N-INSYNC-IND, n-OUTSYNC-IND N-OUTSYNC-IND, t-RLFAILURE T-RLFAILURE, iE-Extensions ProtocolExtensionContainer { { Synchronic	onisation-Configuration-Cell-ReconfRqst-ExtIEs} } OPTIONAL,
}	
Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL	L-EXTENSION ::= {

```
PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEOUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    primarySCH-Power
                                            DL-Power,
    iE-Extensions
                                             ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRgstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL.
    . . .
PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondarySCH-Information-Cell-ReconfRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondarySCH-Power
                                             DL-Power,
    iE-Extensions
                                             ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRgstFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                             PrimaryCPICH-Power,
                                             ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD
                                                                     CRITICALITY reject TYPE
                                                                                                  SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD
    PRESENCE mandatory }
}
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    secondarvCPICH-Power
                                                 DL-Power,
    iE-Extensions
                                                 ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs } }
    OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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```
PrimaryCCPCH-Information-Cell-ReconfRgstFDD ::= SEQUENCE {
    bCH-information
                                           BCH-information-Cell-ReconfRgstFDD,
    iE-Extensions
                                           ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
 ļ
PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                           CommonTransportChannelID,
    bCH-Power
                                           DL-Power,
                                           ProtocolExtensionContainer { { BCH-information-Cell-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE {
    iPDL-FDD-Parameters
                                               IPDL-FDD-Parameters
                                                                       OPTIONAL,
    iPDL-Indicator
                                               IPDL-Indicator,
    iE-Extensions
                                           ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PDSCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
   maximumPDSCH-Power Maximum-PDSCH-Power,
                             - ProtocolExtensionContainer { { PDSCH Information Cell ReconfRqstFDD ExtIEs } } OPTIONAL,
}
PDSCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
+
```

UNCHANGED TEXT IS REMOVED

1

 RADIO LINK SETUP REQUEST FDD	

RadioLinkSetupRequestFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupRequestFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}} OPTIONAL,	
}	
RadioLinkSetupRequestFDD-IES NBAP-PROTOCOL-IES ::= { {	
RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {	
{ ID id-DL-PowerBalancing-Information CRITICALITY ignore EXTENSION DL-PowerBalancing-Information PRESENCE optional } { ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information PRESENCE optional } { ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE conditional } The IE shall be present if HS-DSCH Information IE is present CRITICALITY reject EXTENSION RL-ID PRESENCE conditional }, The IE shall be present if HS-DSCH Information IE is present CRITICALITY reject EXTENSION RL-ID PRESENCE conditional },	
}	
<pre>UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-ScramblingCode, minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength, maxNrOfUL-DPDCHs MaxNrOfUL-DPDCHs OPTIONAL, This IE shall be present if Min UL Channelisation Code length IE is set to 4 ul-PunctureLimit PunctureLimit, tFCS TFCS, ul-DPCCH-SlotFormat UL-DPCCH-SlotFormat, ul-SIR-Target UL-SIR, diversityMode DiversityMode, sSDT-CellID-Length SDT-CellID-Length OPTIONAL, s-FieldLength S-FieldLength OPTIONAL, iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } OPTIONAL, </pre>	

```
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-DPC-Mode
                          CRITICALITY reject EXTENSION DPC-Mode
                                                                     PRESENCE optional },
    . . .
DL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    + FCS
                                          TFCS,
    dl-DPCH-SlotFormat
                                          DL-DPCH-SlotFormat,
    tFCI-SignallingMode
                                          TFCI-SignallingMode,
    tFCI-Presence
                                          TFCI-Presence
                                                                         OPTIONAL,
    -- this IE shall be present if the DL DPCH slot format IE is set to any of the values from 12 to 16 --
   multiplexingPosition
                                          MultiplexingPosition,
    not-Used-pDSCH-RL-ID
                                          ------NULLRL-ID
                                                                                         OPTIONAL.
     - This IE shall be present if the DSCH Information IE is present
                                          not-Used-pDSCH-CodeMapping
                                                                                                                OPTIONAL,
    This IE shall be present if the DSCH Information IE is present
    powerOffsetInformation
                                          PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                          FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                          LimitedPowerIncrease,
    innerLoopDLPCStatus
                                          InnerLoopDLPCStatus,
    iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PowerOffsetInformation-RL-SetupRgstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                          PowerOffset,
    pO2-ForTPC-Bits
                                          PowerOffset,
   pO3-ForPilotBits
                                          PowerOffset,
   iE-Extensions
                                          ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCI2-Bearer-Information-RL-SetupRgstFDD ::= SEQUENCE {
- toAWS
                                     TOAWS,
                                      TOAWE,
ProtocolExtensionContainer { { TFCI2 Bearer Information RL SetupRgstFDD ExtIEs } } OPTIONAL,
...
+
TFCI2 Bearer Information RL SetupRqstFDD ExtIEs NBAP PROTOCOL EXTENSION ::= {
    { ID id bindingID
                                          CRITICALITY ignore
                                                                  EXTENSION BindingID
                                                                                                                PRESENCE
                                                                                                                           -optional }|
                                      CRITICALITY ignore
                                                                                                               PRESENCE optional },
   { ID id transportlayeraddress
                                                                 EXTENSION TransportLayerAddress
}
```

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```
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
    ProtocolIE-Single-Container{{ RL-InformationItemIE-RL-SetupRgstFDD }}
RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-RL-InformationItem-RL-SetupRqstFDD
                                                            CRITICALITY
                                                                            notify
                                                                                            TYPE
                                                                                                                     RL-InformationItem-RL-
                    PRESENCE
SetupRqstFDD
                                mandatory }
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-TD
                                        RL-ID,
    C-TD
                                        C-ID,
    firstRLS-indicator
                                        FirstRLS-Indicator,
    frameOffset
                                        FrameOffset.
    chipOffset
                                        ChipOffset.
    propagationDelay
                                        PropagationDelay
                                                                    OPTIONAL,
    diversityControlField
                                        DiversityControlField
                                                                    OPTIONAL,
    -- This IE shall be present if the RL is not the first one in the RL Information IE
                                        FDD-DL-CodeInformation,
    dl-CodeInformation
    initialDL-transmissionPower
                                        DL-Power,
    maximumDL-power
                                        DL-Power,
    minimumDL-power
                                        DL-Power.
                                                                    OPTIONAL,
    sSDT-Cell-Identity
                                        SSDT-Cell-Identity
                                        TransmitDiversityIndicator
    transmitDiversityIndicator
                                                                        OPTIONAL,
    -- This IE shall be present if Diversity Mode IE in UL DPCH Information group is not set to "none"
    iE-Extensions
                                        ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   - { ID id SSDT CellIDforEDSCHPC
                                                        CRITICALITY ignore EXTENSION SSDT Cell-Identity
                                                                                                                    PRESENCE conditional }|
    -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE.
      ID id-RL-Specific-DCH-Info
                                                        CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                     PRESENCE optional }|
      ID id-DelayedActivation
                                                        CRITICALITY reject EXTENSION DelayedActivation
                                                                                                                    PRESENCE optional }
      ID id-Qth-Parameter
                                                        CRITICALITY ignore EXTENSION Qth-Parameter
                                                                                                                    PRESENCE optional }
     ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional
},
    . . .
```

UNCHANGED TEXT IS REMOVED

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_ _ -- RADIO LINK SETUP RESPONSE FDD _ _ RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} OPTIONAL, RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } ID id-NodeB-CommunicationContextID PRESENCE mandatory } CRITICALITY ignore TYPE NodeB-CommunicationContextID ID id-CommunicationControlPortID CRITICALITY ignore TYPE CommunicationControlPortID PRESENCE mandatory } ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } { ID id-TFCI2-BearerInformationResponse CRITICALITY ignore TYPE TFC12-BearerInformationResponse PRESENCE optional } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional }, . . . } RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container{{ RL-InformationResponseItemIE-RL-SetupRspFDD }} RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= { id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY { ID TYPE RL-InformationResponseItem-RLignore SetupRspFDD PRESENCE mandatory} RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE { rL-ID RL-ID, rL-Set-ID RL-Set-ID, received-total-wide-band-power Received-total-wide-band-power-Value, diversityIndication DiversityIndication-RL-SetupRspFDD, not-Used-dSCH-InformationResponseList OPTIONAL, sSDT-SupportIndicator SSDT-SupportIndicator, iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL, . . . RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional }, . . . } DiversityIndication-RL-SetupRspFDD ::= CHOICE { combining Combining-RL-SetupRspFDD,

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```
nonCombiningOrFirstRL
                                                 NonCombiningOrFirstRL-RL-SetupRspFDD
}
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                                                 RL-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
}
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE
    dCH-InformationResponse
                                                 DCH-InformationResponse,
    iE-Extensions
                                                     ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
}
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocollE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspFDD }}
DSCH InformationResponseListIEs RL SetupRspFDD NBAP PROTOCOL IES ::= {
                                                                                                 PRESENCE mandatory }
    {    ID id DSCH InformationResponse    CRITICALITY ignore    TYPE DSCH InformationResponse
+
```

UNCHANGED TEXT IS REMOVED

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_ _ -- RADIO LINK SETUP FAILURE FDD _ _ RadioLinkSetupFailureFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupFailureFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL, RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } | { ID id-NodeB-CommunicationContextID PRESENCE conditional }| CRITICALITY ignore TYPE NodeB-CommunicationContextID -- This IE shall be present if at least one of the radio links has been successfully set up ID id-CommunicationControlPortID PRESENCE optional } CRITICALITY ignore TYPE CommunicationControlPortID ID id-CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } | CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } CauseLevel-RL-SetupFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-SetupFailureFDD, rLSpecificCause RLSpecificCauseList-RL-SetupFailureFDD, . . . GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE cause Cause. iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE { unsuccessful-RL-InformationRespList-RL-SetupFailureFDD Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD, successful-RL-InformationRespList-RL-SetupFailureFDD Successful-RL-InformationRespList-RL-SetupFailureFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . } RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional }, . . . }

```
Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
           id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD
                                                                                                                        TYPE Unsuccessful-RL-
    { ID
                                                                             CRITICALITY
                                                                                             ignore
InformationRespItem-RL-SetupFailureFDD
                                            PRESENCE
                                                        mandatory }
}
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEOUENCE {
    rL-ID
                                                RL-ID,
    cause
                                                Cause,
    iE-Extensions
                                                ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
    OPTIONAL.
    . . .
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::=
           id-Successful-RL-InformationRespItem-RL-SetupFailureFDD
                                                                                             ignore
                                                                                                                        TYPE Successful-RL-
    { ID
                                                                             CRITICALITY
InformationRespItem-RL-SetupFailureFDD
                                            PRESENCE
                                                        mandatory }
Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-TD
                                                RL-ID,
    rL-Set-ID
                                                RL-Set-ID,
    received-total-wide-band-power
                                                Received-total-wide-band-power-Value,
    diversityIndication
                                                DiversityIndication-RL-SetupFailureFDD,
    not-Used-dSCH-InformationResponseList
                                                        -NULLDSCH-InformationRespList-RL-SetupFailureFDD
                                                                                                                                    OPTIONAL
    not-Used-tFCI2-BearerInformationResponse
                                                            -NULLTFC12 BearerInformationResponse
                                                                                                                                    OPTIONAL,
      There shall be only one TFCI2 bearer per Node B Communication Context.
    sSDT-SupportIndicator
                                                SSDT-SupportIndicator,
    iE-Extensions
                                                ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
    OPTIONAL,
    . . .
Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional},
    . . .
}
DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining
                                                Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                                NonCombiningOrFirstRL-RL-SetupFailureFDD
}
```

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```
Combining-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
 }
CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                                DCH-InformationResponse,
                                                     ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs} }
    iE-Extensions
   OPTIONAL,
    . . .
}
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH InformationRespList RL SetupFailureFDD ::= ProtocollE Single Container {{ DSCH InformationRespListIEs RL SetupFailureFDD }}
DSCH-InformationRespListIEs-RL-SetupFailureFDD_NBAP-PROTOCOL-IES ::= {
    { ID id DSCH InformationResponse CRITICALITY ignore TYPE DSCH InformationResponse
                                                                                                 PRESENCE mandatory }
}
```

UNCHANGED TEXT IS REMOVED

	 RADIO LINK RECONFIGURATION PREPARE FDD					
	******	* * * * * * * * * * * * * * * * * * * *				
Rad	dioLinkReconfigurationPrepareFDD ::= SEQUENCE protocolIEs ProtocolIE-Containe protocolExtensions ProtocolExtensionCo 		onfigurationPrepare ReconfigurationPrep		OPTIONAL,	
Rae	<pre>dioLinkReconfigurationPrepareFDD-IES NBAP-PRG { ID id-NodeB-CommunicationContextID ID id-UL-DPCH-Information-RL-ReconfPrepFI ID id-DL-DPCH-Information-RL-ReconfPrepFI ID id-DCHs-to-Add-FDD { ID id-DCHs-to-Add-FDD { ID id-DCH-DeleteList-RL-ReconfPrepFDD { ID id-DCH-DeleteList-RL-ReconfPrepFDD { ID id-DSCH_DeleteList-RL-ReconfPrepFDD { ID id-TFCI2-BearerSpecificInformation-RL- PRESENCE optional } { ID id-RL-InformationList-RL-ReconfPrepFDI { ID id-Transmission-Gap-Pattern-Sequence-I PRESENCE optional }, </pre>	CRI DD CRI DD CRI CRI CRI CRI CRI CRI CRI CRI	ITICALITY reject TY ITICALITY reject TY	_ YPE RL-InformationList-RL-Reconfl	<pre>fPrepFDD PRESENCE optional } ion-RL-ReconfPrepFDD PrepFDD PRESENCE optional } </pre>	
Ra	dioLinkReconfigurationPrepareFDD-Extensions M			- Common Information	PRESENCE optional }	
	<pre>{ ID id DSCH FDD Common Information { ID id-SignallingBearerRequestIndicator { ID id-HSDSCH-FDD-Information { ID id-HSDSCH-Information-to-Modify { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Delete { ID id-HSDSCH-RNTI The IE shall be present if HS-PDSCH RL II { ID id-HSPDSCH-RL-ID</pre>	CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject	EXTENSION Signal EXTENSION HSDSCH-F EXTENSION HSDSCH-J EXTENSION HSDSCH-M EXTENSION HSDSCH-F EXTENSION HSDSCH-F	llingBearerRequestIndicator FDD-Information Information-to-Modify MACdFlows-Information MACdFlows-to-Delete	PRESENCE optional }} PRESENCE optional} PRESENCE optional} PRESENCE optional} PRESENCE optional} PRESENCE conditional} PRESENCE optional}	
}						
UL	-DPCH-Information-RL-ReconfPrepFDD ::= SEQUEN ul-ScramblingCode ul-SIR-Target minUL-ChannelisationCodeLength maxNrOfUL-DPDCHs This IE shall be present if minUL-Channe ul-PunctureLimit tFCS ul-DPCCH-SlotFormat diversityMode	UL-ScramblingCo UL-SIR MinUL-Channelis MaxNrOfUL-DPDCF	sationCodeLength Is Le is set to 4	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,		

```
sSDT-CellIDLength
                                                    SSDT-CellID-Length
                                                                                        OPTIONAL,
    s-FieldLength
                                                    S-FieldLength
                                                                                        OPTIONAL.
    iE-Extensions
                                                    ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                     OPTIONAL.
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    + FCS
                                                    TECS
                                                                                        OPTIONAL,
    dl-DPCH-SlotFormat
                                                    DL-DPCH-SlotFormat
                                                                                        OPTIONAL.
    tFCI-SignallingMode
                                                    TFCI-SignallingMode
                                                                                        OPTIONAL.
    tFCI-Presence
                                                    TFCI-Presence
                                                                                        OPTIONAL,
    -- This IE shall be present if the DL DPCH Slot Format IE is set to any of the values from 12 to 16
    multiplexingPosition
                                                    MultiplexingPosition
                                                                                        OPTIONAL,
    not-Used-pDSCH-CodeMapping
                                                        OPTIONAL,
                                                                                                                      OPTIONAL,
    not-Used-pDSCH-RL-ID
                                                               -NULLRL-ID
    limitedPowerIncrease
                                                    LimitedPowerIncrease
                                                                                        OPTIONAL,
    iE-Extensions
                                                    ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID
                                                    DCH-ID,
    iE-Extensions
                                                    ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocollE-Single-Container {{DSCH-ModifyItemIE-RL-ReconfPrepFDD }}
DSCH ModifyItemIE RL ReconfPrepFDD NBAP PROTOCOL IES ::= {
    { ID id DSCH ModifyItem RL ReconfPrepFDD CRITICALITY reject TYPE DSCH ModifyItem RL ReconfPrepFDD PRESENCE mandatory}
+
DSCH-ModifvItem-RL-ReconfPrepFDD ::= SEOUENCE {
    dSCH ID
                                                    DSCH-ID,
    dl-TransportFormatSet
                                                    TransportFormatSet
                                                                                OPTIONAL.
   -allocationRetentionPriority
                                                    AllocationRetentionPriority OPTIONAL,
   frameHandlingPriority
                                                    FrameHandlingPriority
                                                                                OPTIONAL,
   toAWS
                                                    TOAWS
                                                                                OPTIONAL,
   toAWE
                                                    TOAWE
                                                                                OPTIONAL,
```

	TransportBearerReq			
		ontainer { { DS	CH ModifyItem RL ReconfPr	epFDD ExtIEs} } OPTIONAL,
····				
DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PRC	TOCOL - EXTENSION ··- J			
· · ·	RITICALITY ignore	EXTENSION I	BindingID	PRESENCE optional }
	RITICALITY ignore		CransportLayerAddress	PRESENCE optional },
1				
+				
DSCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SI	<pre>ZE (1maxNrOfDSCHs))</pre>	OF ProtocolIE-	-Single-Container {{DSCH-D	eleteItemIE-RL-ReconfPrepFDD }}
DSCH DeleteItemIE RL ReconfPrepFDD NBAP PROTOCOL	IES ::= {			
	CRITICALITY reject	TYPE I	SCH DeleteItem RL ReconfP	repFDD PRESENCE mandatory}
]				
DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {				
	ProtocolExtensionC	ontainer { { D	CH-DeleteItem-RL-ReconfPr	epFDD_ExtIEs} } OPTIONAL,
+				
DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PRC	TOCOL-EXTENSION ::= {			
$\frac{1}{1}$				
TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD addOrModify AddOrModify-TFCI2-RL-				
delete NULL	Reconfreeprod,			
+				
AddOrModify TFCI2 RL ReconfPrepFDD ::= SEQUENCE {	_			
toAWS ToAWS,				
toAWE TOAWE,				
	xtensionContainer { {	AddOrModify TH	CI2 RL ReconfPrepFDD ExtI	Es} } OPTIONAL,
$\frac{1}{1}$				
		t.		
AddOrModify-TFCI2-RL-ReconfPrepFDD-ExtIEs NBAP-F	ROTOCOL-EXTENSION ::= CALITY reject		I TFCI2BearerRequestIndi	cator PRESENCE optional }
	CALITY ignore		BindingID	PRESENCE optional }
(ID id transportlayeraddress CRITI	CALITY ignore	EXTENSION	TransportLayerAddress	PRESENCE optional },
+				
J				
RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE	(SIZE (1maxNrOfRLs)) OF ProtocolIE	E-Single-Container {{ RL-I	nformationItemIE-RL-ReconfPrepFDD }}
RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOC	'OL-TES ::= {			
{ ID id-RL-InformationItem-RL-ReconfPrepFD		Y reject	TYPE	RL-InformationItem-RL-
ReconfPrepFDD PRESENCE mandatory}		2		
}				

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<pre>RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE { rL-ID</pre>	DI InformationItom DI DegenformerEDD :	CROTENCE (
dl-CodeInformation FDD-DL-CodeInformation OPTIONAL, maxDL-Power DL-Power OPTIONAL, minDL-Power DL-Power OPTIONAL, sSDT-Indication SSDT-Indication OPTIONAL, sSDT-Identity SSDT-Cell-Identity OPTIONAL,				
maxDL-Power DL-Power OPTIONAL, minDL-Power OPTIONAL, sSDT-Indication SDT-Indication sSDT-Cell-Identity SDT-Cell-Identity The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE" TransmitDiversityIndicator This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none" IE-Extensions This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none" IE-Extensions * This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Coll Identity PRESENCE conditional] This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Connon Information IE. ID id-DLReferencePower { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-POCH-TimingAdjustment PRESENCE optional } ID id-OLDH-TimingAdjustment CRITICALITY reject EXTENSION DL-POCH-TimingAdjustment PRESENCE optional } { ID id-DLPCH-TimingAdjustment CRITICALITY ignore EXTENSION Opt-Parameter PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTE		,	ODTIONAL	
minDL-Power DL-Power OPTIONAL, SSDT-Indication SSDT-Indication OPTIONAL, SSDT-Cell-Identity OPTIONAL, SSDT-Cell-Identity OPTIONAL, The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE" TransmitDiversityIndicator OPTIONAL, This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none" ProtocolExtension OPTIONAL, This IE shall be present if Diversity Mode IE is present in UL DPCH InformationItem-RL-ReconfPrepFDD-ExtIEs } OPTIONAL, RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION SEDT Cell Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } [{ ID id-DLPCH-TimingAdjustment CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } [{ ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } [{ ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation <td< td=""><td></td><td></td><td> ,</td><td></td></td<>			,	
<pre>sSDT-Indication SSDT-Indication OPTIONAL, SSDT-Cell-Identity SSDT-Cell-Identity OPTIONAL, The IE shall be present if the SSDT Indication IE is to "SSDT Active in the UE" transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL, This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none" iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } OPTIONAL, This IE shall be present if Enhanced DECH PC IE is present in the DECH Common Information IE. { [ID id SSDT CellIPforEDECHPC CRITICALITY ignore EXTENSION SECT Cell Identity PRESENCE conditional]] This IE shall be present if Enhanced DECH PC IE is present in the DECH Common Information IE. { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }] { ID id-DLPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }] { ID id-Qth-Parameter CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }] { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional }] { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional }] { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, } [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, } [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>				
<pre>sSDT-Cell-Identity SSDT-Cell-Identity OPTIONAL, The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE" transmitDiversityIndicator OPTIONAL, This IE shall be present if Diversity Mode IE is present in U.DPCH Information IE and it is not set to "none" iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } OPTIONAL, } RL-InformationItem-RL-ReconfPrepFDD-ExtIES NBAP-PROTOCOL-EXTENSION ::= { {ID id SSDT CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT Cell Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. {ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } {ID id-DLR-Specific-DCH-Info CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } {ID id-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-PCH-TimingAdjustment PRESENCE optional } {ID id-DL-PCH-TimingAdjustment CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } {ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } {ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } {ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, {ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, } }</pre>				
The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE" transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL, This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none" iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } OPTIONAL, RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id SSDT CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT Cell Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },				
<pre>transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL, This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none" iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } OPTIONAL, } RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-SDT CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT Cell Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>		-		
<pre>iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } OPTIONAL, } RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { [ID id SSDT_CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT_Cell Identity PRESENCE conditional] This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. [ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } [ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } [ID id-DL-PCH-TimingAdjustment CRITICALITY reject EXTENSION RL-Specific-DCH-Info PRESENCE optional } [ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>	-			
<pre> } RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { [ID id SSDT CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT Cell Identity PRESENCE conditional] This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. [ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } [ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } [ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } [ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }, </pre>	This IE shall be present if Dive	rsity Mode IE is present in UL DPCH	Information IE and it is not set to "none"	
<pre>} RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {</pre>	iE-Extensions	ProtocolExtensionContai	ner { { RL-InformationItem-RL-ReconfPrepFDD-	ExtIEs} } OPTIONAL,
ID id SSDT_CellIDforEDSCHPC CRITICALITY ignore EXTENSION_SSDT_Cell_Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY reject EXTENSION DL-Power PRESENCE optional } { ID id-PL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },				
ID id SSDT_CellIDforEDSCHPC CRITICALITY ignore EXTENSION_SSDT_Cell_Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY reject EXTENSION DL-Power PRESENCE optional } { ID id-PL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },	}			
ID id SSDT_CellIDforEDSCHPC CRITICALITY ignore EXTENSION_SSDT_Cell_Identity PRESENCE conditional } This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY reject EXTENSION DL-Power PRESENCE optional } { ID id-PL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },		,		
This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-Porthog PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } [ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },		l l		
<pre>{ ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>				
<pre>{ ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } { ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>				
<pre>{ ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional } { ID id-Qth-Parameter CRITICALITY ignore EXTENSION Qth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>	L	5	- , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
<pre>{ ID id-Qth-Parameter CRITICALITY ignore EXTENSION Oth-Parameter PRESENCE optional } { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },</pre>	-	-	-	lonal }
{ ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },		-	= =	
optional } { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },	۲. – ۲. – ۲. – ۲. – ۲. – ۲. – ۲. – ۲. –	-	= ,1	nnel-Estimation DRESENCE
{ ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional },		Iner-Escimación criticaliti ign	DIE EXIENSION FILMALY-CFICH-USAGE-IUI-CHA	IIIEI-ESCIMACION PRESENCE
		-Change CRITICALITY ignore EXT	ENSION Secondary-CPICH-Information-Change	PRESENCE optional }.
				risesion of cronor j,
}	}			

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_ _ -- RADIO LINK RECONFIGURATION READY _ _ RadioLinkReconfigurationReady ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationReady-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } | ID id-RL-InformationResponseList-RL-ReconfReady PRESENCE optional }| CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReady ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-TargetCommunicationControlPortID CRITICALITY ignore EXTENSION CommunicationControlPortID PRESENCE optional }| { ID id-HSDSCH-FDD-Information-Response PRESENCE optional }| CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response -- FDD only { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional }, -- TDD only . . . ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-RL-InformationResponseList-RL-ReconfReady ReconfReady } } RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= { ID id-RL-InformationResponseItem-RL-ReconfReady CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReady PRESENCE mandatory } RL-InformationResponseItem-RL-ReconfReady ::= SEOUENCE { rL-ID RL-ID, dCH-InformationResponseList-RL-ReconfReady DCH-InformationResponseList-RL-ReconfReady OPTIONAL, dSCH-InformationResponseList-RL-ReconfReady DSCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only uSCH-InformationResponseList-RL-ReconfReady USCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only not-Used-tFCI2-BearerInformationResponse -NULLTFCI2-BearerInformationResponse-OPTIONAL, - FDD only. There shall be only one TFCI2 bearer per Node B Communication Context. ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional }, . . . } DCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}

```
DCH-InformationResponseListIES-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
}
DSCH-InformationResponseListIES-RL-ReconfReady::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIES-RL-ReconfReady }
}
DSCH-InformationResponseListIES-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse PRESENCE mandatory }
}
USCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIES-RL-ReconfReady }
}
USCH-InformationResponseListIES-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponseListIES-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
        { ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse PRESENCE mandatory }
}
UNCHANGED TEXT IS REMOVED
```

 BEARER REARRANGEMENT INDICATION					
 *********************************	*****				
BearerRearrangementIndication ::= SEQUENCE { protocolIEs ProtocolIE-Contain protocolExtensions ProtocolExtension }	ner {{BearerRearrangementIndication-IEs}}, Container {{BearerRearrangementIndication-Extensions}}	OPTIONAL,			
BearerRearrangementIndication-IES NBAP-PROTOCOL-IES : { ID id-CRNC-CommunicationContextID { ID id-SignallingBearerRequestIndicator { ID id-DCH-RearrangeList-Bearer-RearrangeInd { ID id-DSCH-RearrangeList-Bearer-RearrangeInd TDD only. { ID id-USCH-RearrangeList-Bearer-RearrangeInd	<pre>:= { CRITICALITY ignore TYPE CRNC-CommunicationContextID CRITICALITY ignore TYPE SignallingBearerRequestIndicator CRITICALITY ignore TYPE DCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd</pre>	PRESENCE mandatory } PRESENCE optional } PRESENCE optional } PRESENCE optional }			
TDD only. 	CRITICALITY ignore TYPE TFCI2BearerRequestIndicator				
<pre>FDD only. { ID id-HSDSCH-RearrangeList-Bearer-RearrangeInd</pre>	CRITICALITY ignore TYPE HSDSCH-RearrangeList-Bearer-RearrangeInd	PRESENCE optional },			
}					
BearerRearrangementIndication-Extensions NBAP-PROTOCO	L-EXTENSION ::= {				
}					
DCH-Rearrangelist-Rearer-RearrangeInd ::= SEGUENCE (S	IZE (1maxNrOfDCHs)) OF DCH-RearrangeItem-Bearer-RearrangeInd				
DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { dCH-ID D	CH-ID, rotocolExtensionContainer { { DCH-RearrangeItem-Bearer-RearrangeInd-E	<pre>xtIEs} } OPTIONAL,</pre>			
}					
DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PR	OTOCOL-EXTENSION ::= {				
}					
DSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1maxNrOfDSCHs)) OF DSCH-RearrangeItem-Bearer-RearrangeInd					
DSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { dSCH-ID DSCH-ID, iE-Extensions ProtocolExtensionContainer { { DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } OPTIONAL,					
}					
DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-P	ROTOCOL-EXTENSION ::= {				
}					

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```
USCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-RearrangeItem-Bearer-RearrangeInd
USCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
    uSCH-ID
                                                     USCH-ID,
    iE-Extensions
                                                     ProtocolExtensionContainer { { USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
                                                                                                                                          OPTIONAL,
    . . .
}
USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSDSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-RearrangeItem-Bearer-RearrangeInd
HSDSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
    hsDSCH-MACdFlow-ID
                                                     HSDSCH-MACdFlow-ID,
                                                     ProtocolExtensionContainer { { HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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Information Elements Definitions 9.3.4 - * _ _ -- Information Element Definitions _ _ NBAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxNrOfRLs, maxNrOfTFCs, maxNrOfErrors, maxCTFC, maxNrOfTFs, maxTTI-count, maxRateMatching, maxHS-PDSCHCodeNrComp-1, maxHS-SCCHCodeNrComp-1, maxNrOfCellSyncBursts, -----maxNrOfCodeGroups, maxNrOfMeasNCell, maxNrOfMeasNCell-1, maxNrOfReceptsPerSyncFrame, maxNrOfTFCIGroups, maxNrOfTFCI1Combs, -maxNrOfTFCI2Combs, -maxNrOfTFCI2Combs-1, maxNrOfSF, maxTGPS, maxNrOfUSCHs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfDPCHs, maxNrOfDPCHLCRs, maxNrOfCodes, maxNrOfDSCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDCHs, maxNrOfLevels, maxNoGPSItems, maxNoSat, maxNrOfCellPortionsPerCell, maxNrOfCellPortionsPerCell-1,

maxNrOfHSSCCHs, maxNrOfHSSCCHCodes. maxNrOfMACdFlows. maxNrOfMACdFlows-1, maxNrOfMACdPDUIndexes. maxNrOfMACdPDUIndexes-1, maxNrOfPriorityQueues, maxNrOfPrioritvOueues-1, maxNrOfHARQProcesses, maxNrOfSyncDLCodesLCR, maxNrOfSyncFramesLCR, maxNrOfContextsOnUeList, maxNrOfPriorityClasses, maxNrOfSatAlmanac-maxNoSat, id-MessageStructure, id-ReportCharacteristicsType-OnModification, id-Rx-Timing-Deviation-Value-LCR, id-SFNSFNMeasurementValueInformation, id-SFNSFNMeasurementThresholdInformation, id-TUTRANGPSMeasurementValueInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TypeOfError, id-transportlayeraddress, id-bindingID, id-Angle-Of-Arrival-Value-LCR, id-SvncDLCodeIdThreInfoLCR, id-neighbouringTDDCellMeasurementInformationLCR, id-HS-SICH-Reception-Quality, id-HS-SICH-Reception-Quality-Measurement-Value, id-Initial-DL-Power-TimeslotLCR-InformationItem, id-Maximum-DL-Power-TimeslotLCR-InformationItem, id-Minimum-DL-Power-TimeslotLCR-InformationItem, id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission, id-HS-DSCHRequiredPowerValueInformation, id-HS-DSCHProvidedBitRateValueInformation, id-HS-DSCHRequiredPowerValue, id-Best-Cell-Portions-Value, id-Unidirectional-DCH-Indicator, id-SAT-Info-Almanac-ExtItem, id-TnlOos FROM NBAP-Constants Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM NBAP-CommonDataTypes

NBAP-PROTOCOL-IES, ProtocolExtensionContainer{}, ProtocolIE-Single-Container{},

NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers;

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=		=====					
	D						
=		=====					
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DSCH	I-InformationResponse ::= SEQUENCE (SIZE (1maxNrOfDSCHs)) O	F DSCH-Informa	tionResponseItem			
DSCF	I-InformationResponseItem ::= SEQUEN	CE {					
2001	dSCH-ID	DSCH-ID,					
	bindingID	BindingID		OPTIONAL,			
	transportLayerAddress	TransportLay	erAddress	OPTIONAL,			
	iE-Extensions			{ { DSCH-Inform	ationResponseItem-	-ExtIEs } } 0	PTIONAL,
				· · ·	-	, ,	
}							
Daar	I-InformationResponseItem-ExtIEs NBA	DDOTOGOI EVTENCION ··-	ſ				
DSCI	I-INIOIMACIONKESPONSEICEM-EXCIES NBA	P-PROIOCOL-EXIENSION ···-	l				
}							
,							
ÐSCH	I-FDD Common-Information ::= SEQUENC	C C C C C C C C C C C C C C C C C C C					
			OPTIONAL,				
			OPTIONAL,				
	The IE shall be present if the E					<u>e".</u>	
	iE-Extensions	ProtocolExtensionContain	er { { DSCH-FD) Common Informa	tion_ExtIEs} }	OPTIONAL,	
	•••						
}							
DSCI	I-FDD-Common-Information-ExtIEs NBAP	-PROTOCOL-EXTENSION ::= {					
	•••						
}							
DCCL	I FDD Information ::= SEQUENCE (SIZE	(1 morthrofDSCHg)) OF DS	CU_EDD_Informa	tionItom			
DBCI	TED THEORMACION ··- SEQUENCE (SIZE		CII-FDD-IIIIOI IIIA				
DSCI	I-FDD-InformationItem ::= SEQUENCE {						
	dSCH-ID	-DSCH-ID,					
	transportFormatSet	TransportFormatSet,					
	allocationRetentionPriority	AllocationRetentionPrior	ity,				
	frameHandlingPriority	FrameHandlingPriority,					
	toAWS	TOAWS,					
	toAWE	-TOAWE,					
	iE Extensions	ProtocolExtensionContain	er { { DSCH FD) InformationIte	m-ExtIEs} }	OPTIONAL,	
	· · · ·						
}							
DOCT	I-FDD-InformationItem-ExtIEs NBAP-PR	OTOGOI EXTENSION ··- (
DSCI	I-FDD-INIORMACIONICEM-EXCLES_NBAP-PR { ID id-bindingID	CRITICALITY ignore	EXTENSION	BindingID	PRESENCE		
	{ ID id transportlayeraddress	CRITICALITY ignore	EXTENSION EXTENSION	TransportLayer.		PRESENCE	optional } ,
		Chillenment i guote	LITERO LON	Transport chayer.		I KEODINCE	Speronar J,
}							

DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem

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```
F
_ _
  End-Of-Audit-Sequence-Indicator ::= ENUMERATED {
   end-of-audit-sequence,
   not-end-of-audit-sequence
}
EnhancedDSCHPC ::= SEQUENCE {
  -enhancedDSCHPCWnd EnhancedDSCHPCWnd,
   enhancedDSCHPCCounter EnhancedDSCHPCCounter,
. . .
}
EnhancedDSCHPCCounter ::= INTEGER (1..50)
EnhancedDSCHPCIndicator ::= ENUMERATED {
   enhancedDSCHPCActiveInTheUE,
  enhancedDSCHPCNotActiveInTheUE
_____
+
EnhancedDSCHPCWnd ::= INTEGER (1..10)
EnhancedDSCHPowerOffset ::= INTEGER (-15..0)
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М
___
UNCHANGED TEXT IS REMOVED
MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
Maximum PDSCH Power ::= SEQUENCE {
DL-Power
                                    OPTIONAL,
maximum-PDSCH-Power-SF8 DL-Power
                                   OPTIONAL,
                                    OPTIONAL,
maximum PDSCH Power SF16 DL Power
  -maximum PDSCH Power SF32 DL Power
                                     OPTIONAL,
  maximum PDSCH Power SF64 DL Power
                                    -OPTIONAL,
   maximum PDSCH Power SF128 DL Power
                                     OPTIONAL,
   maximum-PDSCH-Power-SF256 DL-Power
                                    OPTIONAL,
  ProtocolExtensionContainer { { Maximum-PDSCH-Power-ExtIEs}
                                                                          OPTIONAL,
}
Maximum-PDSCH-Power-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
+
```

1

MaximumTransmissionPower ::= INTEGER(0500) Unit dBm, Range 0dBm 50dBm, Step +0.1dB
UNCHANGED TEXT IS REMOVED
P
UNCHANGED TEXT IS REMOVED
<pre>PCP-Length ::= ENUMERATED{ v0, v8 }</pre>
PDSCH-CodeMapping ::= SEQUENCE { dl ScramblingCode DL ScramblingCode, signallingMethod CHOICE { code Range PDSCH CodeMapping PDSCH CodeMappingInformationList, tFCI Range PDSCH CodeMapping DSCH MappingInformationList, explicit PDSCH-CodeMapping-PDSCH-CodeInformationList, , , replace PDSCH CodeMapping ReplacedPDSCH CodeInformationList
PDSCH CodeMapping ExtIEs NBAP PROTOCOL EXTENSION ::= {
PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0maxCodeNrComp-1)
PDSCH CodeMapping SpreadingFactor ::= ENUMERATED {
PDSCH CodeMapping PDSCH CodeMappingInformationList ::= SEQUENCE (SIZE (1maxNrOfCodeGroups)) OF

		-{ PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs} } OPTIONAL,
1		
J		
PDSCH-CodeMapping-PDSCH-CodeMag	ppingInformationList-ExtIEs NBAP-PROTOC	OL-EXTENSION ···= {
		
}		
DDSCH_CodoManning_DSCH_Manning	EnformationList ::= SEQUENCE (SIZE (1	maxNxOfTECICroups)) OF
	Informacionidist ··- SEQUENCE (SIZE (I	maxwiolifelgioups// of
SEQUENCE (
<u>maxTFCI-field2-Value</u>	PDSCH-CodeMapping-MaxTFCI-Fie	
	PDSCH-CodeMapping-SpreadingFactor	\overline{T}
	PDSCH Multi-CodeInfo,	
	PDSCH CodeMapping CodeNumberComp,	
		- { PDSCH CodeMapping DSCH MappingInformationList ExtIEs } } OPTIONAL,
}		
PDSCH CodeMapping DSCH Mapping	InformationList ExtIEs NBAP PROTOCOL EX	TENSION ::= {
}		
1		
DDGGU GodeMenning Mexmud Hield	10 Me	
PDSCH-CodeMapping-MaxTFCI-Field	IZ-VALUE ··= INIEGER (IIUZ3)	
PDSCH CodeMapping PDSCH CodeInf	FormationList ::= SEQUENCE (SIZE (1ma	xNrOfTFCI2Combs)) OF
	PDSCH-CodeMapping-SpreadingFactor	$\overline{\tau}$
multi-CodeInfo	PDSCH-Multi-CodeInfo,	
	PDSCH-CodeMapping-CodeNumberComp,	
	ProtocolExtensionContainer {	<pre>-{ PDSCH CodeMapping PDSCH CodeInformationList ExtIEs} } OPTIONAL,</pre>
••••		
}		
PDSCH-CodeMapping-PDSCH-CodeInf	CormationList-ExtIEs NBAP-PROTOCOL-EXTE	NSION ::= {
+		
Ť		
PDSCH CodeMapping ReplacedPDSCH	I CodeInformationList ::= SEQUENCE (SIZ	E (1maxNrOfTFCI2Combs)) OF
tfci-Field2	TFCS-MaxTFCI-field2-Value,	
	PDSCH-CodeMapping-SpreadingFactor	
		,
codeNumber	PDSCH-CodeMapping-CodeNumberComp,	
		SCH CodeMapping ReplacedPDSCH CodeInformationList ExtIEs}
····		
}		
·		
DDSCH_CodoManning_BonlagodDDSC	I CodeInformationList ExtIEs NBAP PROTO	COL EVERNOLON ··- (
FDBCH COUCHAPPING REPIACEDPDSCI	I-COUCT <u>HIOIMACIONDISC EXCLES NDAP PROIC</u>	The second secon
····		
+		
PDSCH-Multi-CodeInfo ::= INTEG	ER (116)	

PDSCH-ID ::= INTEGER (0..255)

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```
-- T
  _____
UNCHANGED TEXT IS REMOVED
TFCI-Presence ::= ENUMERATED {
   present,
   not-present
TFCI-SignallingMode ::= SEQUENCE {
   tFCI-SignallingOption
                          TFCI-SignallingMode-TFCI-SignallingOption,
   not-Used-splitType
                         OPTIONAL,
   - This IE shall be present if the TFCI signalling option is set to "split"
   not-Used-lengthOfTFCI2
                         OPTIONAL,
   iE-Extensions
                          ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} }
                                                                                              OPTIONAL,
   . . .
}
TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)
TFCI-SignallingMode SplitType ::= ENUMERATED {
-hard,
-logical
}
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
   normal,
   not-Used-split
TFCI2-BearerInformationResponse ::= SEQUENCE {
BindingID,
TransportLayerAddress,
                                          ProtocolExtensionContainer { { TFCI2 BearerInformationResponse ExtIEs } } OPTIONAL,
...
+
TFCI2 BearerInformationResponse Extles NBAP PROTOCOL EXTENSION ::= {
}
TFCI2BearerRequestIndicator ::= ENUMERATED {newBearerRequested}
```

TGD

::= INTEGER (0|15..269)

-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

```
UNCHANGED TEXT IS REMOVED
TFCS ::= SEQUENCE {
    tFCSvalues
                               CHOICE {
        always-Used-no-Split-in-TFCI
                                               TFCS-TFCSList.
        not-Used-split-in-TFCI
                                               NULLSEOUENCE {
           transportFormatCombination DCH
                                               TFCS DCHList,
           signallingMethod
                                               CHOICE (
                                               TFCS-MapingOnDSCHList,
               tFCI-Range
               explicit
                                                 +,
                                               -ProtocolExtensionContainer { { Split-in-TFCI-ExtIEs } }
                                                                                                                iE Extensions
           ....
        +,
        -- This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.
        . . .
    ł.
    iE-Extensions
                      ProtocolExtensionContainer { { TFCS-ExtIEs} }
                                                                           OPTIONAL,
    . . .
Split-in-TFCI-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
+
TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEQUENCE {
       CTFC
                           TFCS-CTFC,
       tFC-Beta
                       TransportFormatCombination-Beta
                                                           OPTIONAL,
       -- The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD - or PCPCH channel].
       iE-Extensions
                           ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }
                                                                                    OPTIONAL,
        . . .
TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-CTFC ::= CHOICE {
    ctfc2bit
                                       INTEGER (0..3),
    ctfc4bit
                                       INTEGER (0..15),
    ctfc6bit
                                       INTEGER (0..63),
```

ctfc8bit	INTEGER (0255)	,	
ctfc12bit	INTEGER (04095)		
ctfcl6bit	INTEGER (065535		
ctfcmaxbit	INTEGER (0maxC)	TFC)	
}			
~	(SIZE (1maxNrOfTFCI1Combs)) ()F	
	TFCS CTFC -		
	ProtocolExtensionContainer	{ { TFCS DCHList ExtIEs } } OPTIONAL,	
	riococorincemproneonearmer	((Treb Dendibe Interib)) or Trowid,	
}			
TFCS DCHList Extles NBAP P	ROTOCOL EXTENSION ::= {		
			
}			
TECS-ManingOnDSCHList	SEQUENCE (SIZE (1maxNrOfTFCIC	Groups)) OF	
	Shoolingh (Bizh (Imaxilolileit	STOUPS / / OF	
~ (ueTFCS_MaxTFCI_field2_\	Value,	
	TFCS CTFC,		
	ProtocolExtensionCont	tainer { { TFCS MapingOnDSCHList ExtIEs} }	OPTIONAL,
			
		ſ	
TFCS-MapingOnDSCHList-Exti-	ES NBAP PROTOCOL EXTENSION ::=		
+			
TFCS-MaxTFCI-field2-Value-	::= INTEGER (1maxNrOfTFCI2Cor	nbs-1)	
TECS DSCHLigt ::= SFOUENCE	<u> (SIZE (1maxNrOfTFCI2Combs))</u>	_ <u></u>	
	(SIZE (I MAXNIOLIFCIZCOMDS))	OF .	
CTFC-DSCH	TFCS-CTFC,		
<u> </u>	ProtocolExtensionCont	tainer { { TFCS-DSCHList-ExtIEs} } OPTIONAL,	
····			
}			
TFCS DSCHList Extles NBAP	PROTOCOL EXTENSION ::= {		
}			
TransportBearerRequestIndi bearerRequested,	cator ::= ENUMERATED {		
bearerNotRequested,			
···			
}			
UNCHANGED TEXT IS REMOVED			

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 TMPORTS ProcedureCode, ProtocolIE-ID FROM NBAP-CommonDataTypes; _ _ -- Elementary Procedures _ _ id-audit ProcedureCode ::= 0 id-auditRequired ProcedureCode ::= 1 ProcedureCode ::= 2 id-blockResource id-cellDeletion ProcedureCode ::= 3 id-cellReconfiguration ProcedureCode ::= 4id-cellSetup ProcedureCode ::= 5id-cellSynchronisationInitiation ProcedureCode ::= 45 id-cellSynchronisationReconfiguration ProcedureCode ::= 46 id-cellSynchronisationReporting ProcedureCode ::= 47 ProcedureCode ::= 48id-cellSynchronisationTermination id-cellSynchronisationFailure ProcedureCode ::= 49id-commonMeasurementFailure ProcedureCode ::= 6 id-commonMeasurementInitiation ProcedureCode ::= 7 id-commonMeasurementReport ProcedureCode ::= 8 id-commonMeasurementTermination ProcedureCode ::= 9 id-commonTransportChannelDelete ProcedureCode ::= 10 id-commonTransportChannelReconfigure ProcedureCode ::= 11 id-commonTransportChannelSetup ProcedureCode ::= 12 id-compressedModeCommand ProcedureCode ::= 14 id-dedicatedMeasurementFailure ProcedureCode ::= 16 id-dedicatedMeasurementInitiation ProcedureCode ::= 17 id-dedicatedMeasurementReport ProcedureCode ::= 18 id-dedicatedMeasurementTermination ProcedureCode ::= 19 ProcedureCode ::= 20 id-downlinkPowerControl

id-downlinkPowerTimeslotControl

ProcedureCode ::= 38

id-errorIndicationForCommon	ProcedureCode	::=	35	
id-errorIndicationForDedicated	ProcedureCode	::=	21	
id-informationExchangeFailure	ProcedureCode	::=	40	
id-informationExchangeInitiation	ProcedureCode	::=	41	
id-informationExchangeTermination	ProcedureCode	::=	42	
id-informationReporting	ProcedureCode	::=	43	
id-BearerRearrangement	ProcedureCode	::=	50	
id-physicalSharedChannelReconfiguration	ProcedureCode	::=	37	
id-privateMessageForCommon	ProcedureCode	::=	36	
id-privateMessageForDedicated	ProcedureCode	::=	22	
id-radioLinkAddition	ProcedureCode	::=	23	
id-radioLinkDeletion	ProcedureCode	::=	24	
id-radioLinkFailure	ProcedureCode	::=	25	
id-radioLinkPreemption	ProcedureCode	::=	39	
id-radioLinkRestoration	ProcedureCode	::=	26	
id-radioLinkSetup	ProcedureCode	::=	27	
id-reset	ProcedureCode	::=	13	
id-resourceStatusIndication	ProcedureCode	::=	28	
id-cellSynchronisationAdjustment	ProcedureCode	::=	44	
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode	::=	29	
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode	::=	30	
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode	::=	31	
id-systemInformationUpdate	ProcedureCode	::=	32	
id-unblockResource	ProcedureCode	::=	33	
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode	::=	34	
id-radioLinkActivation	ProcedureCode	::=	51	
id-radioLinkParameterUpdate	ProcedureCode	::=	52	

--

-- Lists --

maxNrOfCodes	INTEGER	::= 10	
maxNrOfDLTSs	INTEGER	::= 15	
maxNrOfDLTSLCRs	INTEGER	::= б	
maxNrOfErrors	INTEGER	::= 256	
maxNrOfTFs	INTEGER	::= 32	
maxNrOfTFCs	INTEGER	::= 1024	
maxNrOfRLs	INTEGER	::= 16	
maxNrOfRLs-1	INTEGER	::= 15 maxNrOfRLs - 1	
maxNrOfRLs-2	INTEGER	::= 14 maxNrOfRLs - 2	
maxNrOfRLSets	INTEGER	::= maxNrOfRLs	
maxNrOfDPCHs	INTEGER	::= 240	
maxNrOfDPCHLCRs	INTEGER	::= 240	
maxNrOfSCCPCHs	INTEGER	::= 8	
maxNrOfCPCHs	INTEGER	::= 16	
maxNrOfPCPCHs	INTEGER	::= 64	
maxNrOfDCHs	INTEGER	::= 128	
maxNrOfDSCHs	INTEGER	::= 32	
maxNrOfFACHs	INTEGER	::= 8	
maxNrOfCCTrCHs	INTEGER	::= 16	

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maxNrOfPDSCHs	INTEGER ::= 256
maxNrOfHSPDSCHs	INTEGER ::= 16
maxNrOfPUSCHs	INTEGER ::= 256
maxNrOfPDSCHSets	INTEGER ::= 256
maxNrOfPRACHLCRs	INTEGER ::= 8
maxNrOfPUSCHSets	INTEGER ::= 256
maxNrOfSCCPCHLCRs	INTEGER ::= 8
maxNrOfULTSs	INTEGER ::= 15
maxNrOfULTSLCRs	INTEGER ::= 6
maxNrOfUSCHs	INTEGER ::= 32
maxAPSigNum	INTEGER ::= 16
maxNrOfSlotFormatsPRACH	INTEGER ::= 8
maxCellinNodeB	INTEGER ::= 256
maxCCPinNodeB	INTEGER ::= 256
maxCPCHCell	INTEGER ::= maxNrOfCPCHs
maxCTFC	INTEGER ::= 16777215
maxLocalCellinNodeB	INTEGER ::= maxCellinNodeB
maxNoofLen	INTEGER ::= 7
maxFPACHCell	INTEGER ::= 8
maxRACHCell	INTEGER ::= maxPRACHCell
maxPRACHCell	INTEGER ::= 16
maxPCPCHCell	INTEGER ::= 64
maxSCCPCHCell	INTEGER ::= 32
maxSCPICHCell	INTEGER ::= 32
maxTTI-count	INTEGER ::= 4
maxIBSEG	INTEGER ::= 16
maxIB	INTEGER ::= 64
maxFACHCell	INTEGER ::= 256 maxNrOfFACHs * maxSCCPCHCell
maxRateMatching	INTEGER ::= 256
maxCodeNrComp 1	$\frac{1}{1} \frac{1}{1} \frac{1}$
maxHS-PDSCHCodeNrComp-1	INTEGER ::= 15 INTEGER ::= 127
maxHS-SCCHCodeNrComp-1 maxNrOfCellSyncBursts	INTEGER := 127 INTEGER := 10
	$\frac{1}{1} \frac{1}{1} \frac{1}$
maxNrOfReceptsPerSyncFrame	
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxNrOfTFCIGroups	INTEGER := 256
maxNrOfTFCIlCombs	INTEGER ::= 512
maxNrOfTFCI2Combs	<u>INTEGER ::= 1024</u>
maxNrOfTFCI2Combs-1	INTEGER ::= 1023
maxNrOfSF	INTEGER ::= 8
maxTGPS	INTEGER ::= 6
maxCommunicationContext	INTEGER ::= 1048575
maxNrOfLevels	INTEGER ::= 256
maxNoSat	INTEGER ::= 16
maxNoGPSItems	INTEGER ::= 8
maxNrOfHSSCCHs	INTEGER ::= 32
maxNrOfHSSICHs	INTEGER ::= 4
maxNrOfSyncFramesLCR	INTEGER ::= 512
	meLCR INTEGER ::= 8
maxNrOIReceptionsperSyncFra maxNrOfSyncDLCodesLCR maxNrOfHSSCCHCodes	meLCR INTEGER ::= 8 INTEGER ::= 32 INTEGER ::= 4

maxNrOfMACdFlows	INTEGER ::= 8	
maxNrOfMACdFlows-1		maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes	INTEGER ::= 8	
maxNrOfMACdPDUIndexes-1	INTEGER ::= 7	maxNoOfMACdPDUIndexes - 1
maxNrOfPriorityQueues	INTEGER ::= 8	
maxNrOfPriorityQueues-1	INTEGER ::= 7	maxNoOfPriorityQueues - 1
maxNrOfHARQProcesses	INTEGER ::= 8	
maxNrOfContextsOnUeList	INTEGER ::= 16	
maxNrOfCellPortionsPerCell	INTEGER ::= 64	
maxNrOfCellPortionsPerCell-	-1 INTEGER ::= 63	
maxNrOfPriorityClasses	INTEGER ::= 16	
maxNrOfSatAlmanac-maxNoSat	INTEGER ::= 16	maxNrofSatAlmanac - maxNoSat

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 IEs		
1ES		
********************	* * * * * * * * * * * * * * * * * * * *	*****
id-AICH-Information		ProtocolIE-ID ::= 0
id-AICH-InformationItem-Res	sourceStatusInd	ProtocolIE-ID ::= 1
id-BCH-Information		ProtocolIE-ID ::= 7
id-BCH-InformationItem-Reso	ourceStatusInd	ProtocolIE-ID ::= 8
id-BCCH-ModificationTime		ProtocolIE-ID ::= 9
id-BlockingPriorityIndicate	or	ProtocolIE-ID ::= 10
id-Cause		ProtocolIE-ID ::= 13
id-CCP-InformationItem-Aud:	ltRsp	ProtocolIE-ID ::= 14
id-CCP-InformationList-Aud	_	ProtocolIE-ID ::= 15
id-CCP-InformationItem-Reso	ourceStatusInd	ProtocolIE-ID ::= 16
id-Cell-InformationItem-Aud	litRsp	ProtocolIE-ID ::= 17
id-Cell-InformationItem-Res	-	ProtocolIE-ID ::= 18
id-Cell-InformationList-Auc	litRsp	ProtocolIE-ID ::= 19
id-CellParameterID		ProtocolIE-ID ::= 23
id-CFN		ProtocolIE-ID ::= 24
id-C-ID		ProtocolIE-ID ::= 25
id-CommonMeasurementAccura	v	ProtocolIE-ID ::= 39
id-CommonMeasurementObject	-	ProtocolIE-ID ::= 31
id-CommonMeasurementObject		ProtocolIE-ID ::= 32
id-CommonMeasurementObject		ProtocolIE-ID ::= 33
id-CommonMeasurementType	The on Hop	ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID		ProtocolIE-ID ::= 35
id-CommonPhysicalChannelTy	A CTCH-SetupPast FDD	ProtocolIE-ID ::= 36
id-CommonPhysicalChannelTy		ProtocolIE-ID ::= 37
id-CommunicationControlPort		ProtocolIE-ID ···= 37 ProtocolIE-ID ···= 40
id-ConfigurationGeneration		ProtocolIE-ID ···= 40 ProtocolIE-ID ··= 43
id-CRNC-CommunicationContex		ProtocolIE-ID ···= 43 ProtocolIE-ID ··= 44
		ProtocollE-ID ··= 44 ProtocollE-ID ·:= 45
id-CriticalityDiagnostics		
id-DCHs-to-Add-FDD		ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPre	עתדקי	ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD		ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-Recont	-	ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-Recont	PrepTDD	ProtocolIE-ID ::= 53

id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 54		
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 55		
id-DCH-FDD-Information	ProtocolIE-ID ::= 56		
id-DCH-TDD-Information	ProtocolIE-ID ::= 57		
id-DCH-InformationResponse	ProtocolIE-ID ::= 59		
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 62		
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 63		
id-DCH-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 65		
id-DCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 135		
id-DedicatedMeasurementObjectType-DM-Rprt	ProtocolIE-ID ::= 67		
id-DedicatedMeasurementObjectType-DM-Rqst	ProtocolIE-ID ::= 68		
id-DedicatedMeasurementObjectType-DM-Rsp	ProtocolIE-ID ::= 69		
id-DedicatedMeasurementType	ProtocolIE-ID ::= 70		
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 72		
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 73		
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 76		
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 77		
id-DL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 79		
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 81		
id-DL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 82		
id-DL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 83		
id-DL-DPCH-TimingAdjustment	ProtocolIE-ID ::= 21		
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	ProtocolIE-ID ::= 84		
id-DLReferencePower	ProtocolIE-ID ::= 85		
id-DLReferencePowerList-DL-PC-Rqst	ProtocolIE-ID ::= 86		
id-Unused-ProtocolIE-ID-87 DSCH_AddItem_RL_ReconfPrepFDD		ProtocolIE-ID ::=	87
id-Unused-ProtocolIE-ID-89DSCHs to Add FDD		-ProtocolIE-ID ::= 89	
id- <u>Unused-ProtocolIE-ID-89DSCHs to Add FDD id-<u>Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD</u></u>		-ProtocolIE-ID ::= 89	ProtocolIE-ID ::= 91
id- <u>Unused-ProtocolIE-ID-89DSCHs to Add FDD id-<u>Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-<u>Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD</u></u></u>		-ProtocolIE-ID ::= 89	ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 93
id- <u>Unused-ProtocolIE-ID-89DSCHs-to-Add-FDD</u> id- <u>Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-<u>Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD</u></u>	ProtocolIE-ID ::= 96	ProtocolIE-ID ::= 89	
id- <u>Unused-ProtocolIE-ID-89DSCHs-to-Add-FDD</u> id- <u>Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-<u>Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD</u></u>	ProtocolIE-ID ::= 98	ProtocolIE-ID ::= 89	
id- <u>Unused-ProtocolIE-ID-89DSCHs-to-Add-FDD</u> id- <u>Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD</u> id- <u>Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD</u> id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100	ProtocolIE-ID ::= 89	
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse</pre>	ProtocolIE-ID ::= 98		
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105	ProtocolIE-ID ::= 89	
<pre>id-Unused-ProtocolIE-ID-89DSCHs to Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100		ProtocolIE-ID ::= 93
<pre>id-Unused-ProtocolIE-ID-89DSCHs to Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-Unused-ProtocolIE-ID-108DSCH_ModifyItem_RL_ReconfPrepFDD</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs to Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-108DSCH-ModifyList-RL-ReconfPrepFDD</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107		ProtocolIE-ID ::= 93
<pre>id-Unused-ProtocollE-ID-89DSCHs to Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-108DSCH-ModifyList-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL-ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs to Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem RL ReconfPrepFDD id-Unused-ProtocollE-ID-108DSCH-ModifyList-RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs to Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH ModifyItem RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH ModifyList-RL-ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL-ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-InformationItem-ResourceStatusInd</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH ModifyList-RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH ModifyList-RL ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-InformationItem-ResourceStatusInd id-FACH-ParametersList-CTCH-ReconfRqstTDD</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocolIE-ID-89DSCHs to Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-Unused-ProtocolIE-ID-108DSCH-ModifyItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH-ModifyList-RL-ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-InformationItem-ResourceStatusInd id-FACH-ParametersList-CTCH-ReconfRqstTDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocolIE-ID-89DSCHs-to-Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-Unused-ProtocolIE-ID-108DSCH ModifyItem RL ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList-RL ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-InformationItem-ResourceStatusInd id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-FACH-ParametersListIE-CTCH-SetupRqstTDD</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocolIE-ID-89DSCHs-to-Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepFDD id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-Unused-ProtocolIE-ID-108DSCH-ModifyItem RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH-ModifyList-RL-ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-Information id-FACH-InformationItem-ResourceStatusInd id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH ModifyList-RL ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-Information id-FACH-ParametersList-CTCH-ReconfRqstTDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-FACH-ParametersListIE-CTCH-SetupRqstTDD id-IndicationType-ResourceStatusInd id-Local-Cell-ID</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 124		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem RL ReconfPrepFDD id-Unused-ProtocollE-ID-108DSCH-ModifyList-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL ReconfPrepFDD id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-Information id-FACH-ParametersList_CTCH-ReconfRqstTDD id-FACH-ParametersListE-CTCH-SetupRqstFDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd id-Local-Cell-ID id-Local-Cell-ID</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 2		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-108DSCH-ModifyList-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL-ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-InformationItem-ResourceStatusInd id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd id-Local-Cell-ID id-Local-Cell-Group-InformationItem-AuditRsp id-Local-Cell-Group-InformationItem-ResourceStatusInd</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 2		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocollE-ID-89DSCHs-to-Add FDD id-Unused-ProtocollE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocollE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationResponse id-Unused-ProtocollE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-DSCH-TDD-Information id-Unused-ProtocollE-ID-108DSCH-ModifyItem RL ReconfPrepFDD id-Unused-ProtocollE-ID-108DSCH-ModifyList-RL ReconfPrepFDD id-Unused-ProtocollE-ID-112DSCH-ModifyList-RL ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-InformationItem-ResourceStatusInd id-FACH-ParametersListE-CTCH-SetupRqstFDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd id-Local-Cell-ID id-Local-Cell-Group-InformationItem-AuditRsp id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 4		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocolIE-ID-89DSCHs-to-Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-Unused-ProtocolIE-ID-108DSCH ModifyItem RL ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList-RL ReconfPrepFDD id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-Information id-FACH-ParametersListIE-CTCH-ReconfRqstTDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd id-IndicationType-ResourceStatusInd id-Local-Cell-ID id-Local-Cell-Group-InformationItem-AuditRsp id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cel</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 4 ProtocolIE-ID ::= 5		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocolIE-ID-89DSCHs-to-Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-DSCH-TDD-Information id-Unused-ProtocolIE-ID-108DSCH ModifyList RL ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList RL ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList RL ReconfPrepFDD id-DSCH-RearrangeList-Bearer-RearrangeInd id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-Information id-FACH-ParametersListIE-CTCH-ReconfRqstTDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd id-IndicationType-ResourceStatusInd id-Local-Cell-ID id-Local-Cell-Group-InformationItem-AuditRsp id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-InformationItem-ResourceStatusInd id-Local-Cell-InformationItem-ResourceStatusInd id-Local-Cell-InformationItem-ResourceStatusInd id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cell-Grou</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 4 ProtocolIE-ID ::= 5 ProtocolIE-ID ::= 125		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108
<pre>id-Unused-ProtocolIE-ID-89DSCHs-to-Add FDD id-Unused-ProtocolIE-ID-91DSCH-DeleteItem-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-93DSCH-DeleteList-RL-ReconfPrepFDD id-DSCHs-to-Add-TDD id-DSCH-Information-DeleteList-RL-ReconfPrepTDD id-DSCH-Information-ModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepTDD id-DSCH-InformationModifyList-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-106DSCH-FDD-Information id-Unused-ProtocolIE-ID-108DSCH ModifyItem RL ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList-RL-ReconfPrepFDD id-Unused-ProtocolIE-ID-112DSCH ModifyList-RL ReconfPrepFDD id-End-Of-Audit-Sequence-Indicator id-FACH-Information id-FACH-Information id-FACH-ParametersListIE-CTCH-ReconfRqstTDD id-FACH-ParametersListIE-CTCH-SetupRqstFDD id-IndicationType-ResourceStatusInd id-IndicationType-ResourceStatusInd id-Local-Cell-ID id-Local-Cell-Group-InformationItem-AuditRsp id-Local-Cell-Group-InformationItem-ResourceStatusInd id-Local-Cel</pre>	ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 4 ProtocolIE-ID ::= 5		ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 108

id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128
id-AdjustmentPeriod	ProtocolIE-ID ::= 129
id-MaxAdjustmentStep	ProtocolIE-ID ::= 130
id-MaximumTransmissionPower	ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 132
id-MeasurementID	ProtocolIE-ID ::= 133
id-MessageStructure	ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID ::= 134
id-NodeB-CommunicationContextID	ProtocolIE-ID ::= 143
id-NeighbouringCellMeasurementInformation	ProtocolIE-ID ::= 455
id-P-CCPCH-Information	ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 145
id-P-CPICH-Information	ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 147
id-P-SCH-Information	ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 157
id-PCH-Information	ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 165
id-PICH-Information	ProtocolIE-ID ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 168
id-PowerAdjustmentType	ProtocolIE-ID ::= 169
id-PRACH-Information	ProtocolIE-ID ::= 170
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 180
id-PrimaryScramblingCode	ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 183
id-SCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRgst	ProtocolIE-ID ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 189
id-RACH-Information	ProtocolIE-ID ::= 190
id-RACH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 197
id-ReportCharacteristics	ProtocolIE-ID ::= 198
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID ::= 199
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID ::= 200
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID ::= 202
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID ::= 203
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID ::= 204

id-RL-InformationItem-RL-AdditionRqstFDD id-RL-informationItem-RL-DeletionRgst id-RL-InformationItem-RL-FailureInd id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-ReconfPrepFDD id-RL-InformationItem-RL-ReconfRqstFDD id-RL-InformationItem-RL-RestoreInd id-RL-InformationItem-RL-SetupRgstFDD id-RL-InformationList-RL-AdditionRgstFDD id-RL-informationList-RL-DeletionRgst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationList-RL-ReconfRgstFDD id-RL-InformationList-RL-SetupRgstFDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReady id-RL-InformationResponseItem-RL-ReconfRsp id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReady id-RL-InformationResponseList-RL-ReconfRsp id-RL-InformationResponseList-RL-SetupRspFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-ReconfRgstTDD id-RL-Information-RL-ReconfPrepTDD id-RL-Information-RL-SetupRgstTDD id-RL-ReconfigurationFailureItem-RL-ReconfFailure id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rsp id-RL-Set-InformationItem-RL-FailureInd id-RL-Set-InformationItem-RL-RestoreInd id-S-CCPCH-Information id-S-CPICH-Information id-SCH-Information id-S-SCH-Information id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD id-SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD id-SecondaryCPICH-InformationItem-Cell-SetupRgstFDD id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD id-SecondarySCH-Information-Cell-ReconfRgstFDD id-SecondarySCH-Information-Cell-SetupRqstFDD id-SegmentInformationListIE-SystemInfoUpdate id-SFN id-SignallingBearerRequestIndicator id-ShutdownTimer id-Start-Of-Audit-Sequence-Indicator

id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	

ProtocolIE-ID ::= 205

ProtocolIE-ID ::= 206

ProtocolIE-ID ::= 207

ProtocolIE-ID ::= 286

ProtocolIE-ID ::= 208

ProtocolIE-ID ::= 209

ProtocolIE-ID ::= 210

ProtocolIE-ID ::= 211

ProtocolIE-ID ::= 212

ProtocolIE-ID ::= 213

ProtocolIE-ID ::= 237

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ProtocolIE-ID ::= 216

ProtocolIE-ID ::= 217

ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219

ProtocolIE-ID ::= 220

ProtocolIE-ID ::= 221

ProtocolIE-ID ::= 222

ProtocolTE-TD ::= 223

ProtocolIE-ID ::= 224

ProtocolIE-ID ::= 225

ProtocolIE-ID ::= 226

ProtocolIE-ID ::= 227

ProtocolIE-ID ::= 228

ProtocolIE-ID ::= 229

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ProtocolIE-ID ::= 259

ProtocolIE-ID ::= 260

ProtocolTE-TD := 261

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ProtocolIE-ID ::= 263

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ProtocolIE-ID ::= 266

ProtocolIE-ID ::= 268

ProtocolIE-ID ::= 138

ProtocolIE-ID ::= 269

ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 270 ProtocolIE-ID ::= 271

id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TargetCommunicationControlPortID	ProtocolIE-ID ::= 139
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocolIE-ID ::= 508
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRgstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRgstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
	ProtocolIE-ID := 310 ProtocolIE-ID := 141
id-USCH-RearrangeList-Bearer-RearrangeInd	
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailure	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-CPCH-Information	ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349

m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD ICH-SetupRsp <u>-ID-443SSDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information tionAddList-RL-ReconfPrepTDD tionDeleteList-RL-ReconfRqstTDD tionDeleteList-RL-ReconfRqstTDD tionDeleteList-RL-ReconfRqstTDD tionModifyList-RL-ReconfRqstTDD tionModifyList-RL-ReconfPrepTDD tionModifyList-RL-ReconfPrepTDD bionModifyList-RL-ReconfPrepTDD conModify-AddListIE-RL-ReconfPrepTDD bonModify-DeleteListIE-RL-ReconfPrepTDD bonModify-ModifyListIE-RL-ReconfPrepTDD HSetItem-PSCH-ReconfFailureTDD HSetItem-PSCH-ReconfFailureTDD HSetItem-PSCH-ReconfFailureTDD extInfoItem-Reset -ID-417TFC12 Bearer Information RL SetupRqst -ID-419TFC12-BearerInformationResponse -ID-287TFC12BearerRequestIndicator ied ator-		ProtocolIE-ID ::= 443 ProtocolIE-ID ::= 417 ProtocolIE-ID ::= 418 ProtocolIE-ID ::= 419 ProtocolIE-ID ::= 142 ProtocolIE-ID ::= 6 ProtocolIE-ID ::= 11
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m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp -ID-443SSDT-CellIDforEDSCHPC onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information tionAddList-RL-ReconfPrepTDD tionDeleteItem-RL-ReconfRqstTDD tionDeleteList-RL-ReconfPrepTDD tionDeleteList-RL-ReconfRqstTDD	<pre>ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 393 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 395 ProtocolIE-ID ::= 396 ProtocolIE-ID ::= 397 ProtocolIE-ID ::= 398 ProtocolIE-ID ::= 399</pre>	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp -ID-4438SDT-CellIDforEDSCHPC onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information tionAddList-RL-ReconfPrepTDD tionDeleteItem-RL-ReconfRqstTDD tionDeleteList-RL-ReconfPrepTDD	<pre>ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 395 ProtocolIE-ID ::= 396 ProtocolIE-ID ::= 397 ProtocolIE-ID ::= 398</pre>	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp <u>-ID-443SSDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information tionAddList-RL-ReconfPrepTDD tionDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 393 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 395 ProtocolIE-ID ::= 396 ProtocolIE-ID ::= 397	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp <u>-ID-443SSDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information tionAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 393 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 395 ProtocolIE-ID ::= 396	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp <u>-ID-443SSDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information tionAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 393 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 395	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp <u>-ID-443SSDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst Pattern-Sequence-Information	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 393 ProtocolIE-ID ::= 394 ProtocolIE-ID ::= 395	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD ICH-SetupRsp <u>-ID-4438SDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst onfiguration-Cell-SetupRqst	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 393 ProtocolIE-ID ::= 394	ProtocolIE-ID ::= 443
n-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp <u>-ID-4438SDT-CellIDforEDSCHPC</u> onfiguration-Cell-ReconfRqst	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385 ProtocolIE-ID ::= 393	ProtocolIE-ID ::= 443
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD TCH-SetupRsp - <u>ID-443<mark>SSDT-CellIDforEDSCHPC</mark></u>	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384 ProtocolIE-ID ::= 385	ProtocolIE-ID ::= 443
n-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD ICH-SetupRsp	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384	
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD istIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383 ProtocolIE-ID ::= 384	
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381 ProtocolIE-ID ::= 383	
m-CTCH-ReconfRqstFDD em-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381	
m-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380	
m-CTCH-ReconfRqstFDD		
n-CTCH-ReconfRqstFDD		
	ProtocolIE-ID ::= 375	
CH-SetupRsp	ProtocolIE-ID ::= 374	
rease-information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 369	
st-CTCH-SetupRsp	ProtocolIE-ID ::= 362	
-ID-111EnhancedDSCHPCIndicator		ProtocolIE-ID ::= 111
-ID-110 <mark>EnhancedDSCHPC</mark>		-ProtocolIE-ID ::= 110
-ID-94DSCH-FDD-Common-Information		ProtocolIE-ID ::= 94
	ProtocolIE-ID ::= 359	
	ProtocolIE-ID ::= 450	
ount	ProtocolIE-ID ::= 358	
onModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357	
onModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356	
	ProtocolIE-ID ::= 355	
onAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353	
	ProtocolIE-ID ::= 352	
	ProtocolIE-ID ::= 351	
tionModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350	
rma rma atio atio	rmationModifyItem-RL-ReconfRqstTDD rmationModifyList-RL-ReconfPrepTDD rmationModifyList-RL-ReconfRqstTDD ationAddListIE-RL-ReconfPrepTDD ationModify-AddListIE-RL-ReconfPrepTDD	rmationModifyList-RL-ReconfPrepTDDProtocolIE-ID ::= 351rmationModifyList-RL-ReconfRqstTDDProtocolIE-ID ::= 352ationAddListIE-RL-ReconfPrepTDDProtocolIE-ID ::= 353ationModify-AddListIE-RL-ReconfPrepTDDProtocolIE-ID ::= 355

id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD	ProtocolIE-ID ::= 494
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 482
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 423
${\tt id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD}$	ProtocolIE-ID ::= 424
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 425
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 427
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 428
id-CellSyncInfo-CellSyncReprtTDD	ProtocolIE-ID ::= 429
id-CSBTransmissionID	ProtocolIE-ID ::= 430
id-CSBMeasurementID	ProtocolIE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432
id-NCyclesPerSFNperiod	ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434
id-SyncFrameNumber	ProtocolIE-ID ::= 437
id-SynchronisationReportType	ProtocolIE-ID ::= 438
id-SynchronisationReportCharacteristics	ProtocolIE-ID ::= 439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 119
id-ReferenceClockAvailability	ProtocolIE-ID ::= 435
id-ReferenceSFNoffset	ProtocolIE-ID ::= 436
id-InformationExchangeID	ProtocolIE-ID ::= 444
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID ::= 445
id-InformationType	ProtocolIE-ID ::= 446
id-InformationReportCharacteristics	ProtocolIE-ID ::= 447
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID ::= 448
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID ::= 449
id-IPDLParameter-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 451
id-IPDLParameter-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 452
id-IPDLParameter-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 453
id-IPDLParameter-Information-Cell-SetupRgstTDD	ProtocolIE-ID ::= 454
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 74
id-DwPCH-LCR-Information	ProtocolIE-ID ::= 78
id-DwPCH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 90
id-DwPCH-LCR-Information-Cell-SetupRgstTDD	ProtocolIE-ID ::= 97
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 99
id-DwPCH-LCR-Information-ResourceStatusInd	ProtocolIE-ID ::= 101
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 154
id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 174
id-FPACH-LCR-Information	ProtocolIE-ID ::= 290
id-FPACH-LCR-Information-AuditRsp	ProtocolIE-ID ::= 292
id-FPACH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 22
id-FPACH-LCR-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 311
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 312
id-FPACH-LCR-Parameters-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 314
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 456
id-PCH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 457
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	id-PCH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 458	
	id-PICH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 459	
	id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 461	
	id-RL-InformationResponse-LCR-RL-SetupRspTDD	ProtocolIE-ID ::= 463	
	id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 465	
	id-TimeSlot	ProtocolIE-ID ::= 495	
	id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 466	
	id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD	ProtocolIE-ID ::= 467	
	id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD	ProtocolIE-ID ::= 468	
	id-TimeSlotLCR-CM-Rqst	ProtocolIE-ID ::= 469	
	id-UL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 470	
	id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 472	
	id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 473	
	id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 474	
	id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 475	
	id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 477	
	id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 479	
	id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD	ProtocolIE-ID ::= 480	
	id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 481	
	id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID ::= 483	
	id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 485	
	id-UL-SIRTarget	ProtocolIE-ID ::= 510	
	id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 486	
	id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 487	
I	id-Unused-ProtocollE-ID-26 PDSCH_Information_Cell_SetupRqstFDD	FIOCOCOTIE-ID ··- 407	ProtocolIE-ID ::= 26
	id-Unused-ProtocollE-ID-27PDSCH Information Cell SecupidstrDD		ProtocolIE-ID ::= 27
l	id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 488	FIOCOCOTIE_ID ···= 27
	id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 489	
	id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 489 ProtocolIE-ID ::= 490	
	id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 490 ProtocolIE-ID ::= 491	
	id-PUSCH-Addiniormation-LCR-PSCH-ReconfRqst	ProtocolIE-ID := 491 ProtocolIE-ID := 492	
	id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID := 492 ProtocolIE-ID := 493	
	id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID := 493 ProtocolIE-ID ::= 496	
	id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID := 496 ProtocolIE-ID ::= 497	
	id-Power-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID := 497 ProtocolIE-ID := 498	
	id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID := 498 ProtocolIE-ID ::= 499	
	-	ProtocolIE-ID ··= 499 ProtocolIE-ID ··= 500	
	id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd		
	id-Power-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 501	
	id-Power-Local-Cell-Group-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 502	
	id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd	ProtocolIE-ID ::= 503	
	id-Power-Local-Cell-Group-ID	ProtocolIE-ID ::= 504	
	id-PUSCH-Info-DM-Rqst	ProtocolIE-ID ::= 505	
	id-PUSCH-Info-DM-Rsp	ProtocolIE-ID ::= 506	
	id-PUSCH-Info-DM-Rprt	ProtocolIE-ID ::= 507	
	id-InitDL-Power	ProtocolIE-ID ::= 509	
	id-cellSyncBurstRepetitionPeriod	ProtocolIE-ID ::= 511	
	id-ReportCharacteristicsType-OnModification	ProtocolIE-ID ::= 512	
	id-SFNSFNMeasurementValueInformation	ProtocolIE-ID ::= 513	
	id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID ::= 514	
	id-TUTRANGPSMeasurementValueInformation	ProtocolIE-ID ::= 515	
	id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 516	
	id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 520	
	id-RL-InformationResponse-LCR-RL-AdditionRspTDD	ProtocolIE-ID ::= 51	

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id-DL-PowerBalancing-Information	ProtocolIE-ID ::= 28
id-DL-PowerBalancing-ActivationIndicator	ProtocolIE-ID ::= 29
id-DL-PowerBalancing-UpdatedIndicator	ProtocolIE-ID ::= 30
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 517
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 518
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD	ProtocolIE-ID ::= 519
id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD	ProtocolIE-ID ::= 41
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 42
id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst	ProtocolIE-ID ::= 522
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst	ProtocolIE-ID ::= 523
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 524
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 525
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 526
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 527
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 528
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 529
id-bindingID	ProtocolIE-ID ::= 102
id-RL-Specific-DCH-Info	ProtocolIE-ID ::= 103
id-transportlayeraddress	ProtocolIE-ID ::= 104
id-DelayedActivation	ProtocolIE-ID ::= 231
id-DelayedActivationList-RL-ActivationCmdFDD	ProtocolIE-ID ::= 232
id-DelayedActivationInformation-RL-ActivationCmdFDD	ProtocolIE-ID ::= 233
id-DelayedActivationList-RL-ActivationCmdTDD	ProtocolIE-ID ::= 234
id-DelayedActivationInformation-RL-ActivationCmdTDD	ProtocolIE-ID ::= 235
id-neighbouringTDDCellMeasurementInformationLCR	ProtocolIE-ID ::= 58
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 543
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 544
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 545
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 546
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 547
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD	ProtocolIE-ID ::= 548
id-SyncDLCodeIdThreInfoLCR	ProtocolIE-ID ::= 549
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 550
id-DwPCH-Power	ProtocolIE-ID ::= 551
id-AccumulatedClockupdate-CellSyncReprtTDD	ProtocolIE-ID ::= 552
	ProtocolIE-ID ::= 521
id-Angle-Of-Arrival-Value-LCR id-HSDSCH-FDD-Information	ProtocolIE-ID ::= 521 ProtocolIE-ID ::= 530
id-HSDSCH-FDD-Information-Response	ProtocolIE-ID ::= 531
id-HSDSCH-Information-to-Modify	ProtocolIE-ID ::= 534
id-HSDSCH-RNTI	ProtocolIE-ID ::= 535
id-HSDSCH-TDD-Information	ProtocolIE-ID ::= 536
id-HSDSCH-TDD-Information-Response	ProtocolIE-ID ::= 537
id-HSPDSCH-RL-ID	ProtocolIE-ID ::= 541
id-PrimCCPCH-RSCP-DL-PC-RqstTDD	ProtocolIE-ID ::= 542
id-Qth-Parameter	ProtocolIE-ID ::= 64
id-PDSCH-RL-ID	ProtocolIE-ID ::= 66
id-HSDSCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 553
id-UL-Synchronisation-Parameters-LCR	ProtocolIE-ID ::= 554
id-HSDSCH-FDD-Update-Information	ProtocolIE-ID ::= 555
id-HSDSCH-TDD-Update-Information	ProtocolIE-ID ::= 556
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 560

id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD	ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 563
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 564
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 565
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 566
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 567
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 568
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 569
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 570
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 571
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 572
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 573
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 574
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 575
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 576
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-DSCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 583
id-HS-DSCHRequiredPowerValueInformation	ProtocolIE-ID ::= 585
id-HS-DSCHRequiredPowerValue	ProtocolIE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTra	
id-HS-SICH-Reception-Quality	ProtocolIE-ID ::= 588
id-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 589
id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590
id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591
id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592
id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM-Rqsp id-Best-Cell-Portions-Value	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593
id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM-Rgp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594
id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions</pre>	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD</pre>	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 599
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rqst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator</pre>	<pre>ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 599 ProtocolIE-ID ::= 602</pre>
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<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator id-TimingAdjustmentValueLCR id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationModifyList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationModifyList</pre>	<pre>ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 599 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607</pre>
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<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator id-TimingAdjustmentValueLCR id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationModifyList id-RL-ID id-SAT-Info-Almanac-ExtItem id-HSDPA-Capability</pre>	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-HSSICH-Info-DM-Rsp id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator id-TimingAdjustmentValueLCR id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationModifyList id-multipleRL-ul-DPCH-InformationModifyList id-RL-ID id-SAT-Info-Almanac-ExtItem id-HSDPA-Capability id-HSDSCH-Resources-Information-AuditRsp</pre>	<pre>ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610</pre>
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator id-TimingAdjustmentValueLCR id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-HultipleRL-ul-DPCH-InformationList id-RL-ID id-SAT-Info-Almanac-ExtItem id-HSDPA-Capability id-HSDSCH-Resources-Information-ResourceStatusInd</pre>	<pre>ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610 ProtocolIE-ID ::= 611 ProtocolIE-ID ::= 612</pre>
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator id-TimingAdjustmentValueLCR id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-RultipleRL-ul-DPCH-InformationList id-RultipleRL-ul-DPCH-InformationModifyList id-RL-ID id-SAT-Info-Almanac-ExtItem id-HSDPA-Capability id-HSDSCH-Resources-Information-ResourceStatusInd id-HSDSCH-MACdFlows-to-Add id-HSDSCH-MACdFlows-to-Delete</pre>	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610 ProtocolIE-ID ::= 610 ProtocolIE-ID ::= 611 ProtocolIE-ID ::= 612 ProtocolIE-ID ::= 613
<pre>id-HS-SICH-Reception-Quality-Measurement-Value id-HSSICH-Info-DM-Rprt id-HSSICH-Info-DM-Rgst id-Best-Cell-Portions-Value id-Primary-CPICH-Usage-for-Channel-Estimation id-Secondary-CPICH-Information-Change id-NumberOfReportedCellPortions id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD id-Unidirectional-DCH-Indicator id-TimingAdjustmentValueLCR id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-dl-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-multipleRL-ul-DPCH-InformationList id-RL-ID id-SAT-Info-Almanac-ExtItem id-HSDPA-Capability id-HSDSCH-Resources-Information-AuditRsp id-HSDSCH-Resources-Information-ResourceStatusInd id-HSDSCH-MACdFlows-to-Add</pre>	ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 599 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610 ProtocolIE-ID := 610 ProtocolIE-ID := 611 ProtocolIE-ID := 612 ProtocolIE-ID := 613 ProtocolIE-ID := 614
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id-multiple-RL-Information-RL-ReconfPrepTDD id-multiple-RL-Information-RL-ReconfRqstTDD

END

UNCHANGED TEXT IS REMOVED

ProtocolIE-ID ::= 628 ProtocolIE-ID ::= 629

affected:

¥	25.433 CR 1114 #rev 1 ^{# (}	Current version: 6.5.0 [#]		
For <mark>HELP</mark> on	using this form, see bottom of this page or look at the	pop-up text over the X symbols.		
Proposed chang	e affects: UICC apps೫ ME Radio Acc	cess Network X Core Network		
Title:	Feature clean-up: Removal of DSCH (FDD mode)			
Source:	€ RAN3			
Work item code:	f TEI5	<i>Date:</i>		
Category:	 C Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>. 	Release: X Rel-6 Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)		

Reason for change:	ж	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.		
Summary of change	• ¥	R1: Choice in TFCS is renamed as well as choice tags.		
Summary of change	F. 070	R1: Choice in TFCS is renamed as well as choice tags.		
		R0: DSCH is removed from the specifications for the FDD mode.		
Consequences if	ж	The obsolete DSCH feature will remain in the specifications.		
not approved:				
Clauses affected:	ж	8.2.12.2, 8.2.13.2, 8.2.17.1, 8.2.17.2, 8.2.17.4, 8.3.2.2, 8.3.2.4, 8.3.5.2, 8.3.5.4,		
		8.3.17.2, 9.1.24.1, 9.1.27.1, 9.1.36.1, 9.1.37.1, 9.1.37.2, 9.1.38.1, 9.1.40.2,		
		9.1.42.1, 9.1.42.2, 9.1.43, 9.1.87, 9.2.1.20A, 9.2.1.27, 9.2.1.27A, 9.2.1.30,		
		9.2.1.56C, 9.2.1.58, 9.2.2.13B, 9.2.2.13D, 9.2.2.13E, 9.2.2.13F, 9.2.2.13G,		
		9.2.2.13H, 9.2.2.13I, 9.2.2.21A, 9.2.2.25, 9.2.2.44A, 9.2.2.49A, 9.2.2.50, 9.2.3.x1		
		(new), 9.2.3.x2 (new), 9.2.3.5A, 9.3.3, 9.3.4, 9.3.6		
		Y N		
Other specs	ж			
		25.302, 25.303, 25.306, 25.321, 25.331,		
		25.401, 25.402, 25.420, 25.423, 25.424,		
		25.425, 25.427, 25.430, 25.433, 25.434,		

Test specifications

X O&M Specifications

Х

25.435

34.108, 34.123

Other comments: ೫

How to create CRs using this form:

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

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

8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in the Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in the Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful Operation

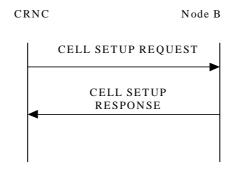


Figure 16: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The *Maximum Transmission Power* IE value shall be stored in the Node B and, at any instance of time, the total maximum output power in the cell shall not be above this value.

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the *Reference SFN Offset* IE is included in the CELL SETUP REQUEST message, the Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node Bs shall ignore the *Reference SFN Offset* IE if included.]

[FDD - If the *IPDL Parameter Information* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD - If the *IPDL Parameter Information* IE containing *IPDL TDD Parameters* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 3.84Mcps TDD mode shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the *IPDL Parameter Information LCR* IE containing *IPDL TDD Parameters LCR* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 1.28Mcps TDD mode shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

When the cell is successfully configured, the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured the CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD frame structure are defined.] [1.28Mcps TDD - When the cell is

successfully configured, the DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to the state Enabled [6].

[FDD—If the CELL SETUP REQUEST message includes the *PDSCH Information* IE, the Node B shall, if supported, store the values included in the *Maximum PDSCH Power* IE and apply the indicated maximum power levels to the PDSCH.]

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

8.2.12.3 Unsuccessful Operation

CRNC	Node B
	CELL SETUP REQUEST
	CELL SETUP FAILURE

Figure 17: Cell Setup procedure: Unsuccessful Operation

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to the CRNC.

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

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause:

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

8.2.12.4 Abnormal Conditions

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

If the Local Cell on which the cell is mapped does not belong to a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

8.2.13 Cell Reconfiguration

8.2.13.1 General

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

8.2.13.2 Successful Operation

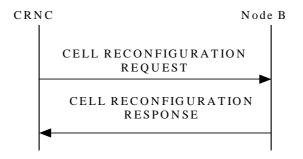


Figure 18: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

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

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

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE, the Node B shall reconfigure the Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

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

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *PCCPCH Information* IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot* IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration LCR* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot LCR* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *DPCH/PUSCH/PRACH Constant Value* IEs, the Node B shall ignore them]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *DwPCH Information* IE, the Node B shall reconfigure the DwPCH power in the Cell according to the *DwPCH Power* IE]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active" the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL FDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information LCR* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters LCR* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with *the IPDL Indicator* IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the *N_INSYNC_IND*, *N_OUTSYNC_IND* and *T_RLFAILURE* IEs. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD If the CELL RECONFIGURATION REQUEST message includes the *PDSCH Information* IE, the Node B shall, if supported, store the values included in the *Maximum PDSCH Power* IE and apply the indicated maximum power levels to the PDSCH. For spreading factors for which a maximum PDSCH power level was already configured and the CELL RECONFIGURATION REQUEST does not provide a new value for the concerning spreading factor, the Node B shall continue to use the existing value.]

8.2.13.3 Unsuccessful Operation

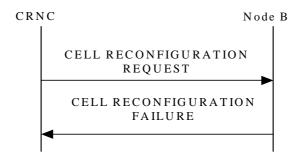


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message, the CELL RECONFIGURATION FAILURE message shall be sent to the CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in the Node B.

The *Cause* IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause:

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

8.2.13.4 Abnormal Conditions

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL already activated".

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored in the Node B defining the IPDL, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL parameters not available".

If the Local Cell on which the cell is mapped does not belong to of a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

[FDD - The Radio Link Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs or an HS-DSCH on one radio link.]

[TDD - The Radio Link Setup procedure is used to establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, or DCHs and an HS-DSCH, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation

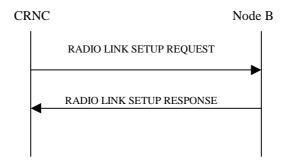


Figure 24: Radio Link Setup procedure, Successful Operation

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

Upon reception of the RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

[TDD - If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not.

- If the Diversity Control Field IE is set to"May", the Node B shall decide for either of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

The *Diversity Control Field* IE is applied to Dedicated Transport Channels (DCH) only, in case of E-DCH it shall always be assumed to be set to "Must". When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

[FDD - In the RADIO LINK SETUP RESPONSE message, the Node B shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, the Node B shall include in the DCH Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each DCH of this RL.]
- [FDD Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined.]

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

In the case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be specified for only one of the DCHs in the set of co-ordinated DCHs.

[TDD - DSCH(s)]:

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

[FDD—If the RADIO LINK SETUP REQUEST message includes the *TFCI2 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of ToAWS and ToAWE specified in the IEs. The *TFCI2 Bearer Information Response* IE containing the

Binding ID IE and the Transport Layer Address IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message. If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the TFCI2 Bearer Information IE the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a TFCI2 transport bearer.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *DSCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DSCH.]

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

[TDD - USCH(s)]:

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

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *USCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the USCH.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *USCH Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD -If the USCH Information IE is present, the Node B shall include in the USCH Information Response IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

HS-DSCH:

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

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK SETUP RESPONSE message.
- The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- If the RADIO LINK SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD – HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].

- [FDD If the RADIO LINK SETUP REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD *HS-SCCH Specific Information Response* IE] [1.28Mcps TDD *HS-SCCH Specific Information Response* IE] in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10].]

[FDD - E-DCH]:

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

- [FDD The Node B shall setup the requested E-DCH resources on the Radio Links indicated by the *E-DCH RL Indication* IE in the *RL Information* IE.]
- [FDD The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every E-DCH MAC-d flow being established.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH Information* IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *Data Descriptor Indicator* IE in the *E-DCH Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related reordering queue.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Maximum Number Of Retransmissions For E-DCH* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to report if the maximum number of retransmissions has elapsed.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD The Node B shall include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* and *E-HICH Signature Sequence* IEs in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK SETUP RESPONSE message for every RL indicated by the *E-DCH RL Indication* IE in the *RL Information* IE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B, then the Node B shall allocate an E-RNTI identifier for the corresponding RL and include this E-RNTI identifier and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK SETUP RESPONSE message.]

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* refers to the latest passed CFN with that value The Node B shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall ignore, when activating the Transmission Gap Pattern Sequence(s), the information provided by the *Downlink Compressed Mode Method* IE if included for the concerned Transmission Gap Pattern Sequence(s).]

[FDD - DL Code Information]:

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

[TDD - PDSCH RL ID]:

[TDD - If the *PDSCH RL ID* IE is included in RADIO LINK SETUP REQUEST message, the Node B shall use the PDSCH RL ID as an identifier for the PDSCH and/or PUSCH in this radio link.]

[FDD – Phase Reference Handling]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH shall not be used", the Node B shall assume that the UE is not using the Primary CPICH for channel estimation. If the RADIO LINK SETUP REQUEST message does not include the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH may be used", the Node B shall assume that the UE may use the Primary CPICH for channel estimation.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Secondary CPICH Information* IE, the Node B shall assume that the UE may use the Secondary CPICH indicated by the *Common Physical Channel ID* IE for channel estimation.]

General:

[FDD - If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD - If the received *Limited Power Increase* IE is set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control.]

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Length Of TFCI2* IE, then the Node B shall apply the length of TFCI (field 2) indicated in the message.]

[FDD If the RADIO LINK SETUP REQUEST message does not include the *Length Of TFC12* IE and the *Split Type* IE is present with the value "Hard", then the Node B shall assume the length of the TFCI (field 2) is 5 bits.]

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC UL Step Size* IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message.]

[FDD - E-DPCH Handling]:

[FDD – If the UL DPDCH Indicator For E-DCH Operation IE is set to "UL DPDCH not present", the Min UL Channelisation Code Length IE, the Puncture Limit IE and the TFCS IE within the UL DPCH Information IE shall be ignored.]

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

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

Radio Link Handling:

[FDD - Transmit Diversity]:

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

DL Power Control:

[FDD - The Node B shall start any DL transmission using the initial DL power specified in the message on each DL DPCH or on the F-DPCH of the RL until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the δP_{curr} , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message and be prepared that the DPC mode may be changed during

the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[3.84 Mcps TDD - The Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall start any DL transmission on each DCH type CCTrCH using the initial CCTrCH DL power, as determined above, on each DL DPCH and on each Time Slot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[3.84 Mcps TDD - The Node B shall determine the maximum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[3.84 Mcps TDD - The Node B shall determine the minimum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - The Node B shall determine the initial DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the Initial DL Power and ignore the *DL Time Slot ISCP info LCR* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DCH type CCTrCH using the initial DL power, as determined above, on each DL DPCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[1.28Mcps TDD – The Node B shall determine the initial power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, and the *DL Time Slot ISCP Info LCR* IE, included in the *RL Information* IE, are included then the Node B shall use that power for the PDSCH and ignore the *Initial DL Transmission Power*

IE included in the *RL Information* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DSCH type CCTrCH using the initial DL power, as determined above, on each DL PDSCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD - If the *DL Time Slot ISCP Info* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

[FDD - If the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the Node B shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.7, using the *DL Power Balancing Information* IE. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P_{init}* shall be set to the power level indicated by the *Initial DL Transmission Power* IE.]

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

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

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

General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE and the *S-Field Length* IE, the Node B shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and
[FDD - If the RADIO LINK SETUP REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the Node B shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated.]

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

[FDD If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the Node B shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity For EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity For EDSCHPC IE, then the Node B shall ignore the value in SSDT Cell Identity For EDSCHPC IE. If the enhanced DSCH power control is activated and the TFCI power control in DSCH hard split mode is supported, the primary/secondary status determination in the enhanced DSCH power control is also applied to the TFCI power control in DSCH hard split mode.]

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC Pattern 01 Count* IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context.]

[FDD - The UL out-of-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

Response Message:

If the RLs are successfully established, the Node B shall and respond with a RADIO LINK SETUP RESPONSE message.

After sending the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16].]
- [TDD start transmission on the new RL immediately as specified in [16].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- if the Delayed Activation IE indicates "Separate Indication":
 - not start any DL transmission for the concerned RL on the Uu interface;
- if the *Delayed Activation* IE indicates "CFN":

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16], however never before the CFN indicated in the *Activation CFN* IE.]
- [TDD start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]

8.2.17.3 Unsuccessful Operation



Figure 25: Radio Link Setup procedure, Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD - If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. In this case, the Node B shall include the *Communication Control Port Id* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP FAILURE message.]

Typical cause values are as follows:

Radio Network Layer Cause:

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- DPC mode change not supported
- Delayed Activation not supported
- HARQ Preamble Mode not supported
- F-DPCH not supported.

Transport Layer Cause:

- Transport Resources Unavailable

Miscellaneous Cause:

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

8.2.17.4 Abnormal Conditions

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

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

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

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must", the Node B shall regard the Radio Link Setup procedure as failed and respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD If the RADIO LINK SETUP REQUEST message includes the *Length Of TFCI2* IE but the *TFCI Signalling Option* IE is set to "Normal", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message does not include the *Length Of TFCI2* IE but the *Split Type* IE is set to "Logical", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD If the RADIO LINK SETUP REQUEST message includes the *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 SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE not referring to one of the radio links to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the Compressed Mode Configuration and if the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern*

Sequence Code Information IE for any DL Channelisation Code, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

8.3.2 Synchronised Radio Link Reconfiguration Preparation

8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one Node B Communication Context.

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

8.3.2.2 Successful Operation

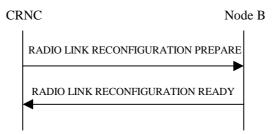


Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

DCH Addition:

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

- If the *DCHs To Add* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

DCH Deletion:

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

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

Physical Channel Modification:

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

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

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration, the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, the Node B shall use the information contained in it for the power settings of the DL DPCH. In particular, if the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

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

- [FDD - The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]

- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the Node B shall set the new Downlink DPCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]
- -[FDD If the *DL DPCH Information* IE includes the *PDSCH Code Mapping* IE, then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]
- -[FDD If the *DL DPCH Information* IE includes the *PDSCH RL ID* IE, then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE, the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - E-DPCH Handling]:

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

- [FDD If the *E-DPCH Information* IE includes the *Min UL Channelisation Code Length For EDCH FDD* IE, the Node B shall apply the new Min UL Channelisation Code Length in the new configuration. The Node B shall apply the contents of the *Max Number Of E-DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuration]
- [FDD If the *E-DPCH Information* IE includes the *E-TFCS* IE, the Node B shall use the *E-TFCS* IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *E-TTI* IE, the Node B shall use the value when the new configuration is being used.]

[TDD – UL/DL CCTrCH Modification]

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

- [TDD If the IE includes any of the *TFCS* IE, *TFCI coding* IE or *Puncture Limit* IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]
- [TDD If the IE includes any *UL DPCH To Add* IE, *UL DPCH To Add LCR* IE, *DL DPCH To Add LCR* IE, or *DL DPCH To Add* IE, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Delete* IE or *DL DPCH To Delete* IE, the Node B shall remove this DPCH in the new configuration.]

- [TDD If the IE includes any UL DPCH To Modify IE or DL DPCH To Modify IE and includes any of the Repetition Period IE, Repetition Length IE or TDD DPCH Offset IE, or the message includes UL/DL Timeslot Information and includes any of the [3.84Mcps TDD Midamble Shift And Burst Type IE], [1.28Mcps TDD Midamble Shift LCR IE], or TFCI Presence IE or the message includes UL/DL Code information and includes [3.84Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD UL DPCH Time Slot Format LCR IE or TDD DL DPCH Time Slot Format LCR IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]
- [1.28Mcps TDD If the UL CCTrCH To Modify IE includes the UL SIR Target IE, the Node B shall use the value for the UL inner loop power control according [19] and [21] when the new configuration is being used.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC DL Step Size* IE, the Node B shall apply this value to the downlink TPC step size in the new configuration.]

[TDD – UL/DL CCTrCH Addition]

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

[TDD – If the *UL/DL CCTrCH To Add* IE includes any [3.84Mcps TDD - *UL/DL DPCH Information* IE] [1.28Mcps TDD - *UL/DL DPCH Information LCR* IE], the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *TDD TPC DL Step Size* IE within a *DL CCTrCH To Add* IE, the Node B shall set the downlink TPC step size of that CCTrCH to that value, otherwise the Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - If the *UL CCTrCH To Add* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply the uplink TPC step size in the new configuration.]

[1.28Mcps TDD – The Node B shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [19] and [21] in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

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

DL Power Control:

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, according to subclause 8.3.7, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

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

[TDD – DSCH Addition/Modification/Deletion]:

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IE, then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD – The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Information* IE, then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist for this Node B Communication Context. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IE in the *TFCI2 Bearer Information* IE the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a TFCI2 transport bearer. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted, then the Node B shall release the resources associated with that bearer in the new configuration.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Request Indicator* IE in the *TFCI2 Bearer Information* IE with the value "New Bearer Requested", the Node B shall establish a new transport bearer replacing the existing transport bearer on which the DSCH TFCI Signaling control frames shall be received. The *Binding ID* IE and *Transport Layer Address* IE of a new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message.]

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

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

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Length Of TFCl2* IE, then the Node B shall apply the length of TFCl (field 2) indicated in the message in the new configuration.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message does not include the *Length Of TFCI2* IE and the *Split Type* IE is present with the value "Hard", then the Node B shall assume the length of the TFCI (field 2) is 5 bits in the new configuration.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the DSCH Common Information IE, the Node B shall treat it as follows:]

- [FDD If the *Enhanced DSCH PC Indicator* IE is included and set to "Enhanced DSCH PC Active in the UE ", the Node B shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD—the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC IE are included in the RL Information IE.]
- [FDD together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

[FDD If the enhanced DSCH power control is activated and the TFCI power control in DSCH hard split mode is supported, the primary/secondary status determination in the enhanced DSCH power control is also applied to the TFCI power control in DSCH hard split mode.]

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the Node B shall deactivate enhanced DSCH power control in the new configuration.]

[TDD – USCH Addition/Modification/Deletion]:

- [TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

- [TDD – The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each USCH.]

RL Information:

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

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE in the new configuration.]
- [FDD If the *RL Information* IE includes the *Qth Parameter* IE and the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- [FDD If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration. During compressed mode, the δP_{curr} , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [3.84 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. If no *Maximum Downlink Power* IE is included (even if *CCTrCH Maximum DL Transmission Power* IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. If no *Minimum Downlink Power* IE is included (even if *CCTrCH Minimum DL Transmission Power* IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum CCTrCH DL Power to Modify* IE and/or *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH. If the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values for all other DCH type CCTrCHs of the radio link.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the

maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]

- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum DL Power to Modify LCR* IE and/or *Minimum DL Power to Modify LCR* IE are included, the Node B shall apply the values in the new configuration for this timeslot, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [3.84Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the determined initial CCTrCH DL power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4).]
- [3.84Mcps TDD The initial power, maximum power, and minimum power for a DSCH type CCTrCH to be added or modified, shall be determined as follows:
 - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
 - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot in a DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the initial DL power, otherwise the initial DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission *Power* IE is included, the Node B shall use any transmission power level currently used on already existing timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]
- [1.28Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE and the *DL Time Slot ISCP Info LCR* IE are included then the Node B shall use that power for the PDSCH power, otherwise the PDSCH power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. If *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each PDSCH and on each

timeslot of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing RL/timeslots when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL PDSCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL PDSCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and the *Maximum CCTrCH DL Power to Modify* IE and/or the *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [FDD- If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the Node B shall adjust the timing of the radio link accordingly in the new configuration.]
- [1.28Mcps TDD If the *RL Information* IE message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

[TDD - PDSCH RL ID]:

- [TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then in the new configuration the Node B shall use the PDSCH and/or PUSCH in this radio link.]

Signalling bearer rearrangement:

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

HS-DSCH Setup:

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

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD – HS-SCCH Specific Information Response IE] [1.28Mcps TDD – HS-SCCH Specific Information Response LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10].]

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message.
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD – HS-SCCH Specific Information Response IE] [1.28Mcps TDD – HS-SCCH Specific Information Response LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-d PDU Size Index* IE in the *Modify Priority Queue* choice, the Node B shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the *MAC-d PDU Size Index* IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Measurement Power Offset* IE in the *HS-DSCH Information* IE or the *HS-DSCH Information To Modify* IE, then the Node B shall use the measurement power offset as described in [10] subclause 6A.2.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use the indicated power offset in the new configuration.]
- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the Node B may modify the HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the Node B may modify the HS-SCCH parameters corresponding to the HS-DSCH. The Node B shall then report the values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD - HS-SCCH Specific Information Response] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR] IEs in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10].]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

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

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

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24].

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- The Node B may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message.

E-DCH Setup:

If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message:

- The Node B shall setup the requested E-DCH resources on the Radio Links indicated by the *E-DCH RL Indication* IE in the *RL Information* IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *Data Description Indicator* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number Of Retransmissions For E-DCH* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to report if the maximum number of retransmissions has elapsed.
- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.
- The Node B shall include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* and *E-HICH Signature Sequence* IEs in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message for every RL indicated by the *E-DCH RL Indication* IE in the *RL Information* IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B, then the Node B shall allocate an E-RNTI identifier for the corresponding RL and include this E-RNTI identifier and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.

Serving E-DCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:

- If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.
- If the new Serving E-DCH RL is in this Node B, the Node B shall allocate an E-RNTI identifier for the new Serving E-DCH Radio Link and include this identifier along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.

E-DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE, then:

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Data Description Indicator* IE, the Node B shall delete the previous list of Data Description Indicator values for this Node B Communication Context and use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.

E-DCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the UE Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.

If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d Flows To Add IE, then:

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number of Retransmissions for E-DCH* IE in the *E-DCH MAC-d Flows To Add* IE, then the Node B shall use this information to report if the maximum number of retransmissions has elapsed.

[FDD - Phase Reference Handling]:

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Primary CPICH Usage For Channel Estimation* IE, the Node B shall assume that Primary CPICH usage for channel estimation has been reconfigured.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Secondary CPICH Information Change* IE, the Node B shall assume that Secondary CPICH usage for channel estimation has been reconfigured.]

General

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

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel or MAC-d flow being added or any Transport Channel or MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

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

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

8.3.2.3 Unsuccessful Operation

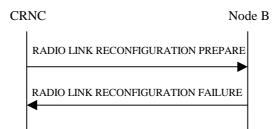


Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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

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

Typical cause values are as follows:

Radio Network Layer Cause

- UL SF not supported
- DL SF not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported
- Number of UL codes not supported
- RL Timing Adjustment not supported
- HARQ Preamble Mode not supported
- F-DPCH not supported.

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.3.2.4 Abnormal Conditions

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

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

[FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE" and SSDT is not active in the current configuration, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed if the *UL DPCH Information* IE does not include the *SSDT Cell Identity Length* IE. In this case, it shall respond with a RADIO LINK RECONFIGURATION FAILURE message.]

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

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

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

[FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Length Of TFCI2* 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 PREPARE 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 PREPARE 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 PREPARE message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message is to modify UE channel estimation information for an existing RL and the modification is not allowed according to [10] subclause 4.3.2.1, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD - If multiple radio links exist within the Node B Communication Context and the RADIO LINK RECONFIGURATION PREPARE message does not include a *RL ID* IE within each *UL DPCH To Add Per RL* IE, *DL DPCH To Add Per RL* IE, *UL DPCH To Modify Per RL* IE, and *DL DPCH To Modify Per RL* IE that is present in the message, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned the Node B Communication Context is configured to use DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes at least one but not all of the *TFCS* IE, *DL DPCH Slot Format* IE, *TFCI Signalling Mode* IE, *Multiplexing Position* IE, *Limited Power Increase* IE and *DL DPCH Power Information* IE in the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

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

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.5 Unsynchronised Radio Link Reconfiguration

8.3.5.1 General

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

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

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

8.3.5.2 Successful Operation

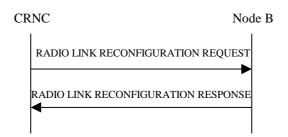


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

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

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

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

DCH Modification:

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

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

DCH Addition:

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

- If a *DCHs To Add* IE includes multiple *DCH Specific Info* IEs for a DCH to be added, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCHas the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" as the QE in the UL data frames [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Deletion:

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

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

[FDD - Physical Channel Modification]:

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

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

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

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the information when building TFCIs in the new configuration.

-[FDD If the *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 TFCI2* 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. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *E-TFCS* IE, the Node B shall use the *E-TFCS* IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration.]

[TDD – UL/DL CCTrCH Modification]

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

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

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

[TDD – UL/DL CCTrCH Deletion]

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

DL Power Control:

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

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

RL Information:

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

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

type CCTrCH, if the *RL Information* IE includes the *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for other timeslots.]

- [FDD If the concerned Node B Communication Context is configured to use DPCH in the downlink and if the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- [1.28Mcps TDD If the *RL Information* IE contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

Signalling Bearer Re-arrangement:

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

HS-DSCH Setup:

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

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

- [FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10].]

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The Node B shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message.
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

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

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [32].
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the ACK Power Offset IE, the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To ModifyUnsynchronised IE, then the Node B shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use the indicated power offset in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10].]

HS-DSCH MAC-d Flow Addition/Deletion:

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

use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

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

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

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

E-DCH Setup:

If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message:

- The Node B shall setup the requested E-DCH resources on the Radio Links indicated by the *E-DCH RL Indication* IE in the *RL Information* IE.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the the *Maximum Number Of Retransmissions For E-DCH* IE in the *E-DCH MAC-d Flows Information* IE, then the Node B shall use this information to report if the maximum number of retransmissions has elapsed.
- If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.
- The Node B shall include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-RGCH Signature Sequence* and *E-HICH Signature Sequence* IEs in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every RL indicated by the *E-DCH RL Indication* IE in the *RL Information* IE.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Serving E-DCH RL* IE, then the Node B shall allocate an E-RNTI identifier for the corresponding RL and include this E-RNTI identifier and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

Serving E-DCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:

- If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.
- If the New Serving E-DCH RL is in this Node B, the Node B shall allocate an E-RNTI identifier for the new Serving E-DCH Radio Link and include this identifier along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

E-DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE, then:

- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Data Description Indicator* IE, the Node B shall delete the previous list of DDI values for this Node B Communication Context and use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.

E-DCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.

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

If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH MAC-d Flows To Add IE, then:

- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the the *Maximum Number Of Retransmissions For E-DCH* IE in the *E-DCH MAC-d Flows To Add* IE, then the Node B shall use this information to report if the maximum number of retransmissions has elapsed.

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, *E-DCH Information* IE, *E-DCH Information To Modify* IE, *E-DCH 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 MAC-d flow being added or any Transport Channel or MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

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

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

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

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

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

8.3.5.3 Unsuccessful Operation

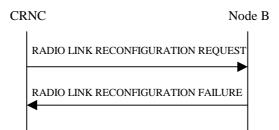


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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

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

Typical cause values are as follows:

Radio Network Layer Cause

- CM not supported
- HARQ Preamble Mode not supported

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.3.5.4 Abnormal Conditions

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

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

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

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

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

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

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

[FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Length Of TFCI2* 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 TFCI2* 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the concerned Node B Communication Context is configured to use F-DPCH in the downlink and if the *RL Information* IE contains the *DL Code Information* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.17 Bearer Re-arrangement

8.3.17.1 General

This procedure is started by the Node B when Bearers for the Node B Communication Context need to be rearranged.

The Node B may initiate the Bearer Rearrangement procedure at any time after establishing a Radio Link.

8.3.17.2 Successful Operation

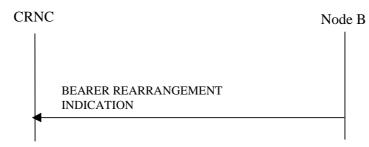


Figure 47C: Bearer Re-arrangement Indication, Successful Operation

When the Node B detects that a signaling bearer or a transport bearer or both need to be re-arranged for the Node B Communication Context, it shall send the BEARER REARRANGEMENT INDICATION message to the CRNC. The message shall use the Communication Control Port assigned for this Node B Communication Context.

If the signaling bearer for the control of the Node B Communication Context needs to be rearranged, the *Signalling Bearer Requested Indicator* IE shall be included in the BEARER REARRANGEMENT INDICATION message.

If the transport bearer for a transport channel needs to be rearranged, the ID of the transport channel for which a new transport bearer is required, shall be included in the BEARER REARRANGEMENT INDICATION message.

[FDD If the TFCI2 bearer on which the DSCH TFCI Signaling control frames shall be received is required to be rearranged, the *TFCI2 Bearer Request Indicator* IE shall be included in the BEARER REARRANGEMENT INDICATION message.]

8.3.17.3 Abnormal Conditions

9.1.24 CELL SETUP REQUEST

9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Local Cell ID	М		9.2.1.38		YES	reject
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	Μ		9.2.1.16		YES	reject
T Cell	М		9.2.2.49		YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nu [14]	YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nd [14]	YES	reject

	T			
М		9.2.1.40	YES	reject
0		9.2.2.2A	YES	reject
Μ		9.2.2.34	YES	reject
	1		YES	reject
				,
М		9.2.1.47A	_	
М			_	
			_	
			YES	reject
	1			reject
М		9.2.1.13	-	
М		DL Power	_	
		9.2.1.21		
Μ		9.2.1.64	-	
	1		YES	reject
Μ		9.2.1.13	-	
М		DL Power		
		9.2.1.21		
М		9.2.1.64		
	1		YES	reject
М		9.2.1.13	-	
М		9.2.2.33	-	
М		9.2.2.53	_	
1	0 <maxs< td=""><td></td><td>EACH</td><td>reject</td></maxs<>		EACH	reject
	CPICHCell			,
	>			
М		9.2.1.13	_	
М		9.2.2.13	_	
М			_	
М		DL Power	_	
		9.2.1.21		
М			_	
	1		YES	reject
				,
Μ		9.2.1.13	_	
1	1		_	
М		9.2.1.14		
М		DL Power	_	
М				
† ····	1		YES	reject
				. 0,000
	1	9.2.2.29A	_	
М				
M				
M M		9.2.2.12A	-	
	01		-	reiect
M	01	9.2.2.12A	- YES -	reject
M	01	9.2.2.12A 9.2.2.18C	– YES	reject
M		9.2.2.12A	- YES - -	
M M M	01	9.2.2.12A 9.2.2.18C 9.2.1.36F	– YES	reject reject
M	01	9.2.2.12A 9.2.2.18C	- YES 	reject
M M M	01 0 <maxno< td=""><td>9.2.2.12A 9.2.2.18C 9.2.1.36F</td><td>- YES - -</td><td></td></maxno<>	9.2.2.12A 9.2.2.18C 9.2.1.36F	- YES - -	
M M M	01 0 <maxno ofCellPorti</maxno 	9.2.2.12A 9.2.2.18C 9.2.1.36F	- YES 	reject
M M M	01 0 <maxno< td=""><td>9.2.2.12A 9.2.2.18C 9.2.1.36F</td><td>- YES </td><td>reject</td></maxno<>	9.2.2.12A 9.2.2.18C 9.2.1.36F	- YES 	reject
· · · · · · · · · · · · · · · · · · ·	M M M M M M M M M M M M M M M M M M M	M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 0 <maxs< td=""> CPICHCell > M 1</maxs<>	M 9.2.2.34 1 9.2.1.47A M 9.2.1.47B M 9.2.1.56A M 9.2.1.13 M 9.2.1.13 M 9.2.1.64 1 9.2.1.64 1 9.2.1.64 1 9.2.1.21 M 9.2.1.64 1 9.2.1.64 1 9.2.1.64 1 9.2.1.64 1 9.2.1.64 1 9.2.1.64 1 9.2.1.64 1 9.2.1.13 M 9.2.2.33 M 9.2.2.33 M 9.2.2.13 M 9.2.2.13 M 9.2.2.13 M 9.2.2.13 M 9.2.2.13 M 9.2.2.53 1 1	M 9.2.2.34 YES 1 9.2.1.47A M 9.2.1.47B M 9.2.1.47B M 9.2.1.47B M 9.2.1.47B M 9.2.1.47B M 9.2.1.56A M 9.2.1.56A M 9.2.1.13 M 9.2.1.13 M 9.2.1.64 M 9.2.1.64 M 9.2.1.13 M 9.2.1.13 M 9.2.1.21 M 9.2.1.33 M 9.2.2.33 M 9.2.2.13 M 9.2.2.13 M 9.2.2.14 M 9.2.1.13 M 9.2.2.14 M 9.2.1.21 <t< td=""></t<>

CPICH		Physical		
		Channel ID		
		9.2.1.13		

Range Bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICHs that can be defined in a Cell.

9.1.27 CELL RECONFIGURATION REQUEST

9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	Μ		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Maximum Transmission Power	0		9.2.1.40		YES	reject
Synchronisation Configuration		01			YES	reject
>N_INSYNC_IND	Μ		9.2.1.47A		-	
>N_OUTSYNC_IND	М		9.2.1.47B		_	
>T_RLFAILURE	М		9.2.1.56A		-	
Primary SCH Information		01			YES	reject
>Common Physical Channel ID	Μ		9.2.1.13		_	
>Primary SCH Power	Μ		DL Power 9.2.1.21		-	
Secondary SCH Information		01			YES	reject
>Common Physical Channel ID	М		9.2.1.13		-	
>Secondary SCH Power	Μ		DL Power 9.2.1.21		-	
Primary CPICH Information		01			YES	reject
>Common Physical Channel ID	Μ		9.2.1.13		-	
>Primary CPICH Power	М		9.2.2.33		—	
Secondary CPICH Information		0 <maxs CPICHCell ></maxs 			EACH	reject
>Common Physical Channel ID	М		9.2.1.13		-	
>Secondary CPICH Power	М		DL Power 9.2.1.21		-	
Primary CCPCH Information		01			YES	reject
>BCH Information		1			-	
>>Common Transport Channel ID	М		9.2.1.14		_	
>>BCH Power	М		DL Power 9.2.1.21		-	
IPDL Parameter Information		01			YES	reject
>IPDL FDD Parameters	0		9.2.2.18C		_	
>IPDL Indicator	М		9.2.1.36F		_	
PDSCH information		01			YES	reject
Maximum PDSCH Power	M		9.2.2.21A		-	

Range Bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	М		9.2.2.59		_	
>Min UL Channelisation Code Length	Μ		9.2.2.22		_	
>Max Number of UL DPDCHs	C- CodeLen		9.2.2.21		_	
>Puncture Limit	М		9.2.1.50	For UL	-	
>TFCS	M		9.2.1.58	For UL	-	
>UL DPCCH Slot Format	M		9.2.2.57		_	
>UL SIR Target	М		UL SIR 9.2.1.67A		-	
>Diversity Mode	М		9.2.2.9		_	
>SSDT Cell ID Length	0		9.2.2.45		-	
>S Field Length	0		9.2.2.40		-	
>DPC Mode	0		9.2.2.13C		YES	reject
>UL DPDCH Indicator For E-DCH Operation	C- ifEDPCHIn fo		9.2.2.61		YES	reject
DL DPCH Information		01			YES	reject
>TFCS	М		9.2.1.58	For DL	_	
>DL DPCH Slot Format	М		9.2.2.10		_	
>TFCI Signalling Mode	М		9.2.2.50		_	
>TFCI Presence	C- SlotFormat		9.2.1.57		-	
>Multiplexing Position	М		9.2.2.23		_	
> <u>Not Used</u> PDSCH RL ID	OC-DSCH		NULLRL ID 9.2.1.53		_	
> <u>Not Used</u> PDSCH Code Mapping	OC-DSCH		<u>NULL</u> 9.2.2. 25		_	
>Power Offset Information		1			-	
>>PO1	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>PO2	M		Power Offset 9.2.2.29	Power offset for the TPC bits	_	
>>PO3	M		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.18A		-	
>Inner Loop DL PC Status	M		9.2.2.18B		_	
DCH Information	М		DCH FDD Information 9.2.2.4D		YES	reject
DSCH Information	Ð		DSCH FDD		YES	reject

			Information 9.2.2.13B			
TFCI2 Bearer Information		0.1	0.2.2.13D		YES	ignore
>ToAWS	M	01	9.2.1.61			ignoro
>ToAWE	M		9.2.1.60			
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
→Transport Layor Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
RL Information		1 <maxno ofRLs></maxno 			EACH	notify
>RL ID	М		9.2.1.53		_	
>C-ID	М		9.2.1.9		_	
>First RLS Indicator	М		9.2.2.16A		_	
>Frame Offset	М		9.2.1.31		_	
>Chip Offset	М		9.2.2.2		_	
>Propagation Delay	0		9.2.2.35		_	
>Diversity Control Field	C- NotFirstRL		9.2.1.25		-	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		-	
>Initial DL Transmission Power	M		DL Power 9.2.1.21	Initial power on DPCH or on F-DPCH	-	
>Maximum DL Power	М		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	_	
>Minimum DL Power	М		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	-	
>SSDT Cell Identity	0		9.2.2.44		_	
>Transmit Diversity Indicator	C-Diversity mode		9.2.2.53		-	
SSDT Cell Identity For EDSCHPC	C- EDSCHPC		9.2.2.44A		YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>Delayed Activation	0		9.2.1.24C		YES	reject
>Qth Parameter	0		9.2.2.36A		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.33A		YES	ignore
Secondary CPICH	0		Common Physical Channel ID 9.2.1.13		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Active Pattern Sequence	0		9.2.2.A		YES	reject
DSCH Common Information	0		DSCH FDD Common Information		¥ES	ignore

			9.2.2.13D			
DL Power Balancing	0		9.2.2.12B		YES	ignore
Information						
HS-DSCH Information	0		HS-DSCH		YES	reject
			FDD			
			Information			
	0		9.2.2.18D			
HS-DSCH-RNTI	C- InfoHSDS		9.2.1.31J		YES	reject
	CH					
HS-PDSCH RL ID	C-		RL ID		YES	reject
H3-FD3CH KE ID	InfoHSDS		9.2.1.53		120	10,000
	CH		0.2.1.00			
E-DPCH Information		01			YES	reject
>Min UL Channelisation	М		9.2.2.22a		-	
Code Length For E-DCH						
FDD						
>Max Number Of UL E-	C-		9.2.2.20B		_	
DPDCHs	CodeLenE					
	DCH					
>Puncture Limit	М		9.2.1.50		-	
>E-TFCS	М		9.2.2.13Dh		_	
>E-TTI	М		9.2.2.13Di		_	
E-DCH FDD Information	C-		9.2.2.13Da		YES	reject
	EDPCHInf					
	0					· · · · ·
Serving E-DCH RL	C-		9.2.1.53Ha		YES	reject
	EDPCHInf					
F-DPCH Information	0	01			YES	reject
>Power Offset		1			-	Tojoot
Information		/			_	
>>PO2	М		Power	Power offset for	_	
			Offset	the TPC bits	_	
			9.2.2.29			
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.18A		-	
>Inner Loop DL PC Status	М		9.2.2.18B		_	
Initial DL DPCH Timing	0		9.2.2.18K		YES	ignore
Adjustment Allowed						

Condition	Explanation
CodeLen	The IE shall be present if Min UL Channelisation Code Length IE equals
	to 4.
NotFirstRL	The IE shall be present if the RL is not the first one in the RL Information
	IE.
DSCH	The IE shall be present if the DSCH Information IE is present.
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to any of
	the values from 12 to 16.
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH Information IE
	is not set to "none".
EDSCHPC	The IE shall be present if Enhanced DSCH PC IE is present in the
	DSCH Common Information IE.
InfoHSDSCH	The IE shall be present if HS-DSCH Information IE is present.
EDPCHInfo	This IE shall be present if E-DPCH Information IE is present.
CodeLenEDCH	The IE shall be present if Min UL Channelisation Code Length For E-
	DCH FDD IE equals 2.

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

9.1.37 RADIO LINK SETUP RESPONSE

9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45			
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62			
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port	М		9.2.1.15		YES	ignore
RL Information Response		1 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	М		9.2.2.39			
>Received Total Wide Band Power	М		9.2.2.39A		_	
>CHOICE Diversity	М				_	
Indication						
>>Combining					_	
>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	-	
>>Non Combining or First RL					—	
>>>DCH Information Response	М		9.2.1.20C		_	
> <u>Not Used</u> DSCH Information Response	0		<u>NULL</u> 9.2.1. 27A		<u>-</u> ¥ES	ignore
>SSDT Support Indicator	М		9.2.2.46		_	
>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.10A		YES	ignore
TFCI2 Bearer Information Response	θ		9.2.2.49A		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.18E		YES	ignore
E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		onticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	М		9.2.1.15		YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		—	
>UL Time Slot ISCP Info	М		9.2.3.26D		-	
>UL PhysCH SF Variation	М		9.2.3.26B		-	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>RL ID	Μ		9.2.1.53		_	
>UL Time Slot ISCP Info LCR	М		9.2.3.26F		_	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.5G		YES	ignore

9.1.38 RADIO LINK SETUP FAILURE

9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	C-Success		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port ID	0		9.2.1.15		YES	ignore
CHOICE Cause Level	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.6		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>Cause	М		9.2.1.6		-	
>>Successful RL Information Response		0 <maxno ofRLs></maxno 		Note: There will never be maxnoofRLs repetitions of this sequence.	EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>RL Set ID	М		9.2.2.39		_	
>>>Received Total Wide Band Power	М		9.2.2.39A		_	
>>>CHOICE Diversity Indication	М				_	
>>>Combining					-	
>>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	_	
>>>Non Combining or First RL					—	
>>>>DCH Information Response	Μ		9.2.1.20C		_	
>>> <u>Not Used</u> DSCH Information Response	0		<u>NULL</u> 9.2.1. 27A		<u>-Yes</u>	ignore
>>> <u>Not Used</u> TFCI2 Bearer Information Response	0		<u>NULL9.2.2.</u> 4 9A	There shall be only one TFCI2 bearer per Node B Communication Context.	-	
>>>SSDT Support Indicator	М		9.2.2.46		_	
>>>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID		YES	ignore

		9.2.2.39		
>>>E-DCH FDD DL Control Channel Information	0	9.2.2.13Dc	YES	ignore
>>>Initial DL DPCH Timing Adjustment	0	DL DPCH Timing Adjustment 9.2.2.10A	YES	ignore
>>HS-DSCH Information Response	0	HS-DSCH FDD Information Response 9.2.2.18E	YES	ignore
>>E-DCH Information Response	0	E-DCH FDD Information Response 9.2.2.13Db	YES	ignore
Criticality Diagnostics	0	9.2.1.17	YES	ignore

Condition	Explanation
Success	The IE shall be present if at least one of the radio links has been
	successfully set up.

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

9.1.40 RADIO LINK ADDITION RESPONSE

9.1.40.1 FDD message

UNAFFECTED TEXT IS REMOVED

9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		-	
>UL Time Slot ISCP Info	М		9.2.3.26D		_	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information		01	0.2.0.2.02		_	
	Μ	01			_	
>>CHOICE Diversity Indication	101					
>>>Combining				Indicates whether the old Transport Bearer shall be reused or not	_	
>>>RL ID	М		9.2.1.53	Reference RL	_	
>>>Non Combining					_	
>>>DCH Information Response	М		9.2.1.20C		_	
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		_	
>UL Time Slot ISCP Info LCR	М		9.2.3.26F		-	
>UL PhysCH SF Variation	М		9.2.3.26B		-	
>DCH Information		01			—	
>>CHOICE Diversity indication	М				_	
>>>Combining				Indicates whether the old Transport Bearer shall be reused or not	-	
>>>>RL ID	М		9.2.1.53	Reference RL	-	1
>>>Non Combining	1				-	1
>>>DCH Information Response	М		9.2.1.20C		_	
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore

9.1.42 RADIO LINK RECONFIGURATION PREPARE

9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
UL DPCH Information		01			YES	reject
>UL Scrambling Code	0		9.2.2.59		_	
>UL SIR Target	0		UL SIR 9.2.1.67A		_	
>Min UL Channelistion Code Length	0		9.2.2.22		_	
>Max Number of UL DPDCHs	C- CodeLen		9.2.2.21		_	
>Puncture Limit	0		9.2.1.50	For UL	_	
>TFCS	0		9.2.1.58		—	
>UL DPCCH Slot Format	0		9.2.2.57		_	
>Diversity Mode	0		9.2.2.9		_	
>SSDT Cell Identity Length	0		9.2.2.45		-	
>S-Field Length	0		9.2.2.40		-	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58		_	
>DL DPCH Slot Format	0		9.2.2.10		-	
>TFCI Signalling Mode	0		9.2.2.50		-	
>TFCI Presence	C- SlotFormat		9.2.1.57		_	
>Multiplexing Position	0		9.2.2.23		-	
> <u>Not Used</u> PDSCH Code Mapping	0		<u>NULL</u> 9.2.2. 25		-	
> <u>Not Used</u> PDSCH RL ID	0		<u>NULL</u> RL ID 9.2.1.53		_	
>Limited Power Increase	0		9.2.2.18A		_	
>DL DPCH Power Information		01			YES	reject
>>Power Offset Information		1			_	
>>>PO1	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits	-	
>>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	-	
>>FDD TPC DL Step Size	М		9.2.2.16		_	
>>Inner Loop DL PC Status	M		9.2.2.18B		-	
DCHs To Modify	0		DCHs FDD To Modify 9.2.2.4E		YES	reject
DCHs To Add	0		DCH FDD Information		YES	reject

			9.2.2.4D			
DCHs To Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	Μ		9.2.1.20		_	
DSCH To Modify		0<maxno< del=""> ofDSCHs></maxno<>			EACH	reject
>DSCH ID	M		9.2.1.27		_	
>Transport Format Set	θ		9.2.1.59	For the DL.	_	
>Allocation/Retention Priority	θ		9.2.1.1A		—	
>Frame Handling Priority	θ		9.2.1.30		_	
>ToAWS	θ		9.2.1.61		_	
>ToAWE	θ		9.2.1.60		_	
<mark>≻Transport Bearer Request</mark> Indicator	M		9.2.1.62A		_	
≻Binding ID	θ		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
→Transport Layer Address	θ		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
DSCH To Add	θ		DSCH FDD Information 9.2.2.13B		YES	reject
DSCH To Delete		0<maxno< del=""> ofDSCHs></maxno<>			EACH	reject
>DSCH-ID	M		9.2.1.27		_	
TFCI2 Bearer Information		01			YES	reject
→CHOICE_TFCI2_Bearer Action	M				_	
<mark>>>Add or modify</mark>					_	
>>>ToAWS	M		9.2.1.61		_	
>>>ToAWE	₩		9.2.1.60		_	
>>>TFCl2 Bearer Request Indicator	θ		9.2.1.56C		YES	reject
>>>Binding ID	θ		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	¥ES	ignore
>>>Transport Layer Address	θ		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	¥ES	i gnore
>>Delete			NULL		_	
RL Information		0 <maxno ofRLs></maxno 			EACH	reject
>RL ID	М		9.2.1.53		_	
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		-	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	-	
>Minimum DL Power	0		DL Power	Minimum	-	

			9.2.1.21	allowed power on DPCH or on F-DPCH		
>SSDT Indication	0		9.2.2.47		-	
>SSDT Cell Identity	C- SSDTIndO N		9.2.2.44		-	
>Transmit Diversity Indicator	C-Diversity mode		9.2.2.53		-	
SSDT Cell Identity For EDSCHPC	C- EDSCHPC		9.2.2.44A		YES	ignore
>DL Reference Power	0		DL Power 9.2.1.21	Power on DPCH or on F-DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>DL DPCH Timing Adjustment	0		9.2.2.10A	Required RL Timing Adjustment	YES	reject
>Qth Parameter	0		9.2.2.36A		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.33A		YES	ignore
>Secondary CPICH Information Change	0		9.2.2.43A		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
DSCH Common Information	0		DSCH FDD Common Information 9.2.2.13D		¥ ES	ignoro
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.18D		YES	reject
HS-DSCH Information To Modify	0		9.2.1.31H		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.31IA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.31IB		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.53		YES	reject
E-DPCH Information		01			YES	reject
>Min UL Channelisation Code Length For E-DCH FDD	0		9.2.2.22a		-	
>Max Number Of UL E- DPDCHs	C- CodeLenE DCH		9.2.2.20B		-	
>Puncture Limit	0		9.2.1.50		_	
>E-TFCS	0		9.2.2.13Dh		-	
>E-TTI	0		9.2.2.13Di		_	
E-DCH FDD Information	0		E-DCH FDD		YES	reject

			Information 9.2.2.13Da			
E-DCH FDD Information To Modify	0		9.2.2.13Df		YES	reject
E-DCH MAC-d Flows To Add	0		E-DCH MAC-d Flows Information 9.2.1.29ab		YES	reject
E-DCH MAC-d Flows To Delete	0		9.2.1.29ac		YES	reject
Serving E-DCH RL	0		9.2.1.53Ha		YES	reject
F-DPCH Information		01			YES	reject
>Power Offset Information		1			_	
>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits		
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.18A		_	
>Inner Loop DL PC Status	М		9.2.2.18B		_	

Condition	Explanation
SSDTIndON	The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE".
CodeLen	The IE shall be present if the <i>Min UL Channelisation Code Length</i> IE is equals to 4.
SlotFormat	The IE shall be present if the <i>DL DPCH Slot Format</i> IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if the <i>Diversity Mode</i> IE is present in the <i>UL DPCH Information</i> IE and is not set to "none".
EDSCHPC	The IE shall be present if the Enhanced DSCH PC IE is present in the DSCH Common Information IE.
HSDSCHRadio Link	The IE shall be present if HS-PDSCH RL ID IE is present.
EDPCHInfo	This IE shall be present if E-DPCH Information IE is present.
CodeLenEDCH	The IE shall be present if <i>Min UL Channelisation Code Length For E-DCH FDD</i> IE equals 2.

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofDSCHs	Maximum number of DSCHs for a UE
maxnoofRLs	Maximum number of RLs for a UE

9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		-	
>Puncture Limit	М		9.2.1.50		_	
>UL DPCH To Add Per RL		0 <maxno ofRLs></maxno 		See note 1 below	_	
>>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>UL Timeslot Information	Μ		9.2.3.26C		-	
>>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16	-	-	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>UL Timeslot Information LCR	М		9.2.3.26E		-	
>>UL SIR Target	0		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>>TDD TPC UL Step Size	0		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>RL ID	0		9.2.1.53		YES	ignore
UL CCTrCH To Modify		0 <maxno ofCCTrCH s></maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	0		9.2.1.58		-	
>TFCI Coding	0		9.2.3.22		-	
>Puncture Limit	0		9.2.1.50		-	
>UL DPCH To Modify Per RL		0 <maxno ofRLs></maxno 		See note 1 below	-	
>>UL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16	-	-	
>>>Repetition Length	М		9.2.3.15		-	

>>>TDD DPCH Offset	Μ		9.2.3.19A		-	
>>>UL Timeslot	М		9.2.3.26C		_	
Information						
>>UL DPCH To Modify		01			YES	reject
>>>Repetition Period	0		9.2.3.16		-	
>>>Repetition Length	0		9.2.3.15		_	
>>>TDD DPCH Offset	0		9.2.3.19A		_	
>>>UL Timeslot		0 <maxno< td=""><td></td><td>Applicable to</td><td>_</td><td></td></maxno<>		Applicable to	_	
Information		ofULts>		3.84Mcps TDD		
intermation				only .		
>>>>Time Slot	М		9.2.3.23		—	
>>>>Midamble Shift	0		9.2.3.7		-	
And Burst Type						
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information		ofDPCHs>				
>>>>DPCH ID	М		9.2.3.5		-	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code						
>>>UL Timeslot	1	0 <maxno< td=""><td> </td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
Information LCR		ofULtsLCR		1.28Mcps TDD		-
		>		only		
>>>>Time Slot LCR	М		9.2.3.24A		-	
>>>>Midamble Shift	0		9.2.3.7A			
LCR						
>>>>TFCI Presence	0		9.2.1.57		_	
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information LCR		OfDPCHL CR>				
>>>>DPCH ID	Μ	01/2	9.2.3.5		_	
>>>>TDD	0		9.2.3.19a		_	
Channelisation Code	U		3.2.3.134			
LCR						
	0		9.2.3.21C		YES	reject
>>>> TDD UL	U		3.2.3.210		120	reject
DPCH Time Slot						
Format LCR		0			GLOBAL	
>>UL DPCH To Delete		0 <maxno ofDPCHs></maxno 			GLUBAL	reject
>>>DPCH ID	Μ	0101 01132	9.2.3.5		_	
>>UL DPCH To Add LCR		01		Applicable to	YES	reject
>>0E DF CH TO Add ECK		0		1.28Mcps TDD	0	Tojoot
				only		
>>>Repetition Period	М		9.2.3.16		—	
>>>Repetition Length	М		9.2.3.15		—	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>UL Timeslot	М		9.2.3.26E		_	
Information LCR						
>>UL SIR Target	0		UL SIR	Applicable to	YES	reject
			9.2.1.67A	1.28Mcps TDD		
				only		
>>TDD TPC UL Step Size	0		9.2.3.21a	Applicable to	YES	reject
				1.28Mcps TDD		
	0		9.2.1.53	only	YES	ignore
>>RL ID	0	0 <maxno< td=""><td>3.2.1.00</td><td></td><td>GLOBAL</td><td></td></maxno<>	3.2.1.00		GLOBAL	
UL CCTrCH To Delete		ofCCTrCH			GLUDAL	reject
>CCTrCH ID	М	\$>	9.2.3.3		_	
		0 <maxno< td=""><td>0.2.0.0</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	0.2.0.0		GLOBAL	reject
DL CCTrCH To Add		ofCCTrCH			GLOBAL	reject
	1	0.0011011	1			

>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
>TPC CCTrCH List		0 <maxno ofCCTrCH s></maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		_	
>DL DPCH To Add Per RL		0 <maxno ofRLs></maxno 		See Note 1 below	-	
>>DL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>DL Timeslot Information	М		9.2.3.4E		_	
>>DL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>DL Timeslot Information LCR	М		9.2.3.40		-	
>>CCTrCH Initial DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>>TDD TPC DL Step Size	0		9.2.3.21		YES	reject

		1		1	· · ·	
>>CCTrCH Maximum DL	0		DL Power		YES	ignore
Transmission Power >>CCTrCH Minimum DL	0		9.2.1.21 DL Power		YES	ignore
Transmission Power	0		9.2.1.21		TES	ignore
>>RL ID	0		9.2.1.53		YES	ignore
DL CCTrCH To Modify		0 <maxno< td=""><td>0.200</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	0.200		GLOBAL	reject
		ofCCTrCH s>				- ,
>CCTrCH ID	М		9.2.3.3		—	
>TFCS	0		9.2.1.58		—	
>TFCI Coding	0		9.2.3.22		_	
>Puncture Limit	0		9.2.1.50		-	
>TPC CCTrCH List		0 <maxno ofCCTrCH s></maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		-	
>DL DPCH To Modify Per RL		0 <maxno ofRLs></maxno 		See Note 1 below	-	
>>DL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	M	1	9.2.3.15		_	
>>>TDD DPCH Offset	M		9.2.3.19A		_	
>>>DL Timeslot	M		9.2.3.4E		_	
Information			0.2.0.12			
>>DL DPCH To Modify		01			YES	reject
	0	01	9.2.3.16		-	10,000
>>>Repetition Period	0		9.2.3.15		_	
>>>Repetition Length	0		9.2.3.19 9.2.3.19A			
>>>TDD DPCH Offset	0	0	9.2.3.19A	Applicable to	-	
>>>DL Timeslot Information		0 <maxno ofDLts></maxno 		3.84Mcps TDD only	_	
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble Shift	0		9.2.3.7		_	
And Burst Type						
>>>TFCI Presence	0		9.2.1.57		_	
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDPCHs>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD	0	1	9.2.3.19			
Channelisation Code	-					
>>>DL Timeslot		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
Information LCR		ofDLtsLCR		1.28Mcps TDD only		
>>>>Time Slot LCR	М		9.2.3.24A		-	
>>>>Midamble Shift LCR	0		9.2.3.7A			
>>>TFCI Presence	0		9.2.1.57		_	
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td>_ </td><td></td></maxno<>			_	
Information LCR		ofDPCHsL CR>				
>>>>DPCH ID	М		9.2.3.5		—	
>>>>TDD	0		9.2.3.19a		-	
Channelisation Code LCR						
>>>>TDD DL DPCH Time Slot	0		9.2.3.19D		YES	reject
Format LCR						

>>>Maximum DL	0		DL Power	Movimum	YES	icnore
Power to Modify LCR	0		9.2.1.21	Maximum allowed power	YES	ignore
Tower to Modify Lord			0.2.1.21	on DPCH		
>>>>Minimum DL	0		DL Power	Minimum	YES	ignore
Power to Modify LCR			9.2.1.21	allowed power on DPCH		C
>>DL DPCH To Delete		0 <maxno ofDPCHs></maxno 			GLOBAL	reject
>>>DPCH ID	М		9.2.3.5		_	
>>DL DPCH To Add LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>DL Timeslot	М		9.2.3.40		_	
Information LCR						
>>TDD TPC DL Step Size	0		9.2.3.21		YES	reject
>>Maximum CCTrCH DL	0		DL Power		YES	ignore
Power to Modify			9.2.1.21			0
>>Minimum CCTrCH DL Power to Modify	0		DL Power 9.2.1.21		YES	ignore
>>RL ID	0	+	9.2.1.21		YES	ignore
DL CCTrCH To Delete		0 <maxno ofCCTrCH s></maxno 	0.2.1.00		GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
DCHs To Modify	0		DCHs TDD		YES	reject
			To Modify 9.2.3.4D			.,
DCHs To Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.20		-	
DSCH To Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2. <u>3.x1</u> 1.2 7		_	
>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	0		9.2.1.59		-	
>Allocation/Retention Priority	0		9.2.1.1A		-	
>Frame Handling Priority	0	+	9.2.1.30		_	
>ToAWS	0		9.2.1.61			
	0	+	9.2.1.60		_	
>ToAWE	M	+	9.2.1.60 9.2.1.62A			
>Transport Bearer Request			9.2.1.02A			
Indicator >Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
DSCH To Add	0		DSCH TDD		YES	reject

			Information 9.2.3.5A			
DSCH To Delete		0 <maxno ofDSCHs></maxno 	9.2.3.5A		GLOBAL	reject
>DSCH ID	М	01030115>	9.2. <u>3.x1</u> 4.2 7		-	
USCH To Modify		0 <maxno ofUSCHs></maxno 	+		GLOBAL	reject
>USCH ID	М		9.2.3.27		_	
>Transport Format Set	0		9.2.1.59		_	
>Allocation/Retention Priority	0		9.2.1.1A		-	
>CCTrCH ID	0		9.2.3.3	UL CCTrCH in which the USCH is mapped	-	
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.58A		YES	ignore
USCH To Add	0		USCH Information 9.2.3.28		YES	reject
USCH To Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		-	
RL Information		0 <maxno ofRLs></maxno 		See Note 1 below	YES	reject
>RL ID	M		9.2.1.53		_	
>Maximum Downlink Power	0		DL Power 9.2.1.21		-	
>Minimum Downlink Power	0		DL Power 9.2.1.21		-	
>Initial DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	М		9.2.3.26H		_	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		-	_
>DL Time Slot ISCP Info LCR	0		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	ignore
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information		YES	reject

		9.2.3.5F		
HS-DSCH Information To Modify	0	9.2.1.31H	YES	reject
HS-DSCH MAC-d Flows To Add	0	HS-DSCH MAC-d Flows Information 9.2.1.31IA	YES	reject
HS-DSCH MAC-d Flows To Delete	0	9.2.1.31IB	YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink	9.2.1.31J	YES	reject
HS-PDSCH RL ID	0	RL ID 9.2.1.53	YES	reject
PDSCH-RL-ID	0	RL ID 9.2.1.53	YES	ignore

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

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

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD
maxnoofDPCHsLCR	Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD
maxnoofDSCHs	Maximum number of DSCHs for one UE
maxnoofUSCHs	Maximum number of USCHs for one UE
maxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps TDD
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
maxnoofULts	Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD
maxnoofRLs	Maximum number of RLs for one UE

9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
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
>DSCH Information Response	0		9.2. <u>3.x2</u> 1.2 7A	TDD only	YES	ignore
>USCH Information Response	0		9.2.3.29	TDD only	YES	ignore
> <u>Not Used</u> TFCI2 Bearer Information Response	0		<u>NULL9.2.2.</u> 49A	FDD only. There shall be only one TFCl2 bearer per Node B Communication Context.	_	
>DL Power Balancing Updated Indicator	0		9.2.2.12D		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		Communica tion Control Port ID 9.2.1.15		YES	ignore
HS-DSCH FDD Information Response	0		9.2.2.18E	FDD only	YES	ignore
HS-DSCH TDD Information Response	0		9.2.3.5G	TDD only	YES	ignore
E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE

9.1.87 BEARER REARRANGEMENT INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	Μ		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	ignore
DCHs To Re-arrange		0 <maxno ofDCHs></maxno 			GLOBAL	ignore
>DCH ID	М		9.2.1.20		—	
DSCHs To Re-arrange		0 <maxno ofDSCHs></maxno 		TDD only	GLOBAL	ignore
>DSCH ID	М		9.2. <u>3.x1</u> 4.2 7		_	
USCHs To Re-arrange		0 <maxno ofUSCHs></maxno 		TDD only	GLOBAL	ignore
>USCH ID	М		9.2.3.27		_	
TFCI2 Bearer Request Indicator	θ		9.2.1.56C	FDD only	YES	ignore
HS-DSCHs MAC-d Flow To Re-arrange		0 <maxno ofMACdFI ows></maxno 			GLOBAL	ignore
>HS-DSCH MAC-d Flow ID	Μ		9.2.1.311		—	

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofDSCHs	Maximum number of DSCHs for a UE
maxnoofUSCHs	Maximum number of USCHs for a UE
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows

9.2.1.20A Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the [FDD - allocated Spreading Factor and the RL/RLS situation] [TDD – allocated Spreading Factor on each DPCH and the assigned timeslot]. [FDD - In Uplink, the reference spreading factor shall be the minimum spreading factor signalled in the Radio Link Setup Request message (*Min UL Channelisation Code Length* IE).]

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

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion
- [TDD Physical Shared Channel Reconfiguration]

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

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

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

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

[FDD When a PDSCH is allocated in the Radio Link Setup procedure, the processing cost associated to this PDSCH, equal to the DL cost RL, shall be debited from the Capacity Credit, in addition to the processing cost of the radio links. In a similar way, this cost shall be credited to the Capacity Credit, when a PDSCH is deleted and the difference between the new cost and the old cost shall be debited from the Capacity Credit (or credited if this difference is negative) when a PDSCH is reconfigured.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by either the radio links-or the PDSCH, the cost credited to or debited from the Capacity Credit shall be taken as N times the cost for one code, where N is the number of channelization codes.]

[TDD -The cost for a radio link is a sum of the costs for each DPCH. For the first DPCH assigned to any user in a cell within a timeslot, the initial cost for a DPCH in a timeslot (cost 1) and the cost for a DPCH (cost 2) shall be taken into account. For any DPCH that is not the first DPCH assigned for any user in a cell within a timeslot, only the cost for a DPCH (cost 2) shall be taken into account.]

[TDD – The cost for shared channels is the sum of the costs for each PDSCH and PUSCH assigned to a PUSCH or PDSCH set. For the first PDSCH or PUSCH assigned to any user in a cell within a timeslot, the initial cost for a PDSCH/PUSCH in a timeslot (cost 1) and the cost for a PDSCH/PUSCH (cost 2) shall be taken into account. For any PDSCH/PUSCH that is not the first PDSCH/PUSCH assigned to any user in a cell within a timeslot, only the cost for a PDSCH/PUSCH (cost 2) shall be taken into account.]

[TDD - In the case of Physical Shared Channel Reconfiguration, the sum of the consumption cost of the each PDSCH/PUSCH of the previous configuration shall be credited to the capacity credit, and the sum of the consumption cost of each PDSCH/PUSCH of the new configuration shall be subtracted from the capacity credit.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1 <maxno ofSFs></maxno 	Reference	[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD – For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL Cost 1	М		INTEGER (065535)	[FDD – This is the cost of a RLS.] [TDD – This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>DL Cost 2	М		INTEGER (065535)	[FDD – This is the cost of a RL.] [TDD – This is the cost of a DPCH/PDSCH/PUSCH]
>UL Cost 1	M		INTEGER (065535)	FDD – This is the cost of a RLS.] [TDD – This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>UL Cost 2	М		INTEGER (065535)	[FDD – This is the cost of a RL.] [TDD – This is the cost of a DPCH/PDSCH/PUSCH.]

Range Bound	Explanation
maxnoofSFs	Maximum number of Spreading Factors

9.2.1.27 DSCH ID

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

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

9.2.1.27A DSCH Information Response

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH Information Response		1<maxno< del=""> ofDSCHs></maxno<>		
>DSCH ID	₩		9.2.1.27	
>Binding ID	θ		9.2.1.4	
>Transport Layer Address	Ð		9.2.1.63	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE

9.2.1.30 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH_<u>[TDD - </u>*A*DSCH] for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER (015)	"0" = lowest priority,
				 "15" = highest priority

9.2.1.56C TFCI2 Bearer Request Indicator

<u>Void</u>.*TFCI2* Bearer Request Indicator IE indicates if a new transport bearer on which the DSCH TFCI Signaling control frames shall be received is required.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI2 Bearer Request			ENUMERATED	
Indicator			(New Bearer	
			Requested)	

9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

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

Method #1 TFCI range

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

Method #2 Explicit

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE DSCHTFCS Values	М			
> <u>Always Used</u> No split in TFCI				This choice is <u>always</u> made <u>_if</u> : a) The TFCS refers to the Uplink. OR b) The mode is FDD and none of the Dadie Links of the
				of the Radio Links of the concerned UE are assigned any DSCH transport channels. OR c) The mode is TDD.
>>TFCS		1 <maxno ofTFCs></maxno 		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	Μ		9.2.1.18A	
>>>CHOICE Gain	C-			
Factors	PhysChan			
>>>Signalled Gain				
Factors				
>>>>CHOICE Mode	М			
>>>> <i>FDD</i> >>>>>Gain	M		INTEGER (015)	For UL DPCCH or control part
Factor β_{C}			INTEGER (015)	of PRACH or control part of PCPCH in FDD; mapping in accordance to [9]
>>>>>Gain Factor β _D	M		INTEGER (015)	For UL DPDCH or data part of PRACH or data part of PCPCH in FDD: mapping in accordance to [9]
>>>>TDD				
>>>>>Gain Factor β	М		iNTEGER (015)	For UL DPCH in TDD; mapping in accordance to [20].
>>>>Reference TFC nr	0		INTEGER (03)	If this TFC is a reference TFC, this IE indicates the reference number.
>>>Computed Gain Factors				
>>>>Reference TFC nr	М		INTEGER (03)	Indicates the reference TFC to be used to calculate the gain factors for this TFC.
> <u>Not Used</u> There is a split in the TFCI				This choice ishall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.: a) The TFCS refers to the Downlink. AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned one
>>Transport Format Combination DCH		1<maxtf< del=""> CI_1_Com</maxtf<>		concorned OE is assigned one or more DSCH transport channels. The first instance of the Transport Format Combination
		bs>		$\frac{DCH \mid E \text{ corresponds to TFCI}}{(\text{field 1}) = 0, \text{ the second to}}$ $\frac{TFCI}{(\text{field 1}) = 1 \text{ and so on.}}$
>>>CTFC(field1)	M		CTFC 9.2.1.18A	
>>CHOICE Signalling	М			

Method				
>>>>TFC Mapping On DSCH		1<maxno< del=""> TFCIGrou ps></maxno<>		
>>>>Max TFCI(field2) Value	М		INTEGER (11023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field2)	Μ		CTFC 9.2.1.18A	
>>>Transport Format Combination DSCH		1<maxtf< del=""> CI_2_Com bs></maxtf<>		The first instance of the Transport Format Combination DSCH IE corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field2)	Μ		CTFC 9.2.1.18A	

Condition	Explanation
PhysChan	The IE shall be present if the TFCS concerns a UL DPCH or PRACH
	channel [FDD – or PCPCH channel].

Range Bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations
maxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to
	the power of the length of the TFCI (field 1))
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to
	the power of the length of the TFCI (field 2))
maxNoTFCIGroups	Maximum number of groups, each group described in terms of a
	range of TFCI(field 2) values for which a single value of CTFC(field2)
	applies

9.2.2.13B DSCH FDD Information

Void The DSCHEDD	Intormation IF	provides intermetion	for DSCHs to be established.
	injormation IL	provides information	Tor Doeris to be estublished.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH FDD Information		1<max< del=""> noofDS CHs></max<>			_	
>DSCH ID	М		9.2.1.27		_	
<mark>≻Transport Format</mark> Set	М		9.2.1.59	For DSCH	-	
Allocation/Retention Priority	М		9.2.1.1A		-	
Frame Handling Priority	M		9.2.1.30		-	
>ToAWS	М		9.2.1.61		_	
>ToAWE	М		9.2.1.60		_	
→Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	θ		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore

İ	Range Bound	Explanation
	maxnoofDSCHs	Maximum number of DSCHs for one UE

9.2.2.13D DSCH FDD Common Information

Void. The DSCH Common Information includes common information for all DSCHs for one UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Indicator	θ		9.2.2.13G	
Enhanced DSCH PC	C- EDSCHPC On		9.2.2.13E	

Condition	Explanation
EDSCHPCOn	The IE shall be present if the Enhanced DSCH PC Indicator IE is set
	to "Enhanced DSCH PC Active in the UE".

9.2.2.13E Enhanced DSCH PC

<u>Void</u>. The Enhanced DSCH PC includes all the parameters which are needed for DSCH power control improvement during soft handover.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd	M		9.2.2.13H	
Enhanced DSCH PC Counter	М		9.2.2.13F	
Enhanced DSCH Power Offset	M		9.2.2.13 	

9.2.2.13F Enhanced DSCH PC Counter

<u>Void</u>. The Enhanced DSCH PC Counter parameter gives the number of correct cell ID command to receive in the averaging window, *Enhanced DSCH PC Wnd* IE, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Counter			INTEGER(150)	

9.2.2.13G Enhanced DSCH PC Indicator

Void. The Enhanced DSCH PC Indicator indicates whether Enhanced DSCH PC is in use by the UE or not.

İI	IE/Group Name	Presence	Range	IE Type and	Semantics Description
				Reference	
Ì	Enhanced DSCH PC Indicator			ENUMERATED (
				Enhanced DSCH PC	
				Active in the UE,	
				Enhanced DSCH PC	
				not Active in the UE)	

9.2.2.13H Enhanced DSCH PC Wnd

<u>Void</u>. The Enhanced DSCH PC Wnd parameter shows the window size to decide primary or non-primary cell, see ref. [10] subclause 5.2.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH PC Wnd			INTEGER (110)	

9.2.2.13I Enhanced DSCH Power Offset

<u>Void</u>. The Enhanced DSCH Power Offset parameter gives the power offset to be added on DSCH when cell is decided to be primary.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced DSCH Power Offset			INTEGER (-150)	Unit: dB
				Range: -15 0 dB
				Step: 1 dB

9.2.2.21A Maximum PDSCH Power

Void. The *Maximum PDSCH Power* IE can contain for each a PDSCH SF a maximum PDSCH power. The maximum PDSCH power shall be applied for each individual channelisation code at the concerning SF when used for a PDSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum PDSCH Power SF4	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF8	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF16	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF32	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF64	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF128	θ		DL Power 9.2.1.21	
Maximum PDSCH Power SF256	θ		DL Power 9.2.1.21	

9.2.2.25 PDSCH Code Mapping

<u>Void</u>. This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code(s). There are three fundamentally different ways that the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will vary depending on the way in which the UTRAN configures usage of the DSCH. A fourth option is also provided which allows the UTRAN to replace individual entries in the TFCI(field 2) to PDSCH code mapping table with new PDSCH code values.

Method #1 Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. Each TFCI(field2) value corresponds to a given PDSCH channelisation code or set of PDSCH codes for multi code. The Node B maps TFCI(field2) values to PDSCH codes in the following way:

- The PDSCH codes used for TFCI(field 2) = 0 are given by the SF of the Code Group 1 (i.e. first instance in *PDSCH Code Mapping*) and the code numbers between CodeNumber₀ (where CodeNumber₀ = "Start Code Number" of Code Group 1) and CodeNumber₀ + "Multi Code Info" 1.
- This continues with unit increments in the value of TFCI (Field2) mapped to either unit increments in code numbers or groups of contiguous code numbers in case of multi-code, this until "Stop Code Number" is reached: So the PDSCH codes used for TFCI(field 2) = k (for k > 0 and k < ("Stop Code Number" "Start Code Number" + 1) DIV k) are given by the SF of the Code Group 1 and the code numbers between CodeNumber_k= CodeNumber_{k+1} + "Multi-Code Info" and CodeNumber_k + "Multi-Code Info" 1. If "Stop Code Number" = "Start Code Number" + "Multi-Code Info" 1 then this is to be interpreted as defining the mapping between the channelisation code(s) and a single TFCI.
- The Node B constructs its mapping table by repeating this process for all the Code Groups in the order they are instantiated in *PDSCH Code Mapping*. The first TFCI(field 2) value used in each group is the largest TFCI(field 2) value reached in the previous group incremented by one.

Note: This imposes that "Stop Code Number" "Start Code Number"+ 1 is a multiple of the value "Multi Code Info" for each instance of *PDSCH Code Mapping*. Furthermore, in the case where multi code is not used, then "Multi Code Info" = 1 and the process above also applies.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code or codes for multicode.

- The set of PDSCH codes specified in the first instance applies for all values of TFCI(field 2) between 0 and the specified "Max TFCI(field2)".
- The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous instance incremented by one.
 - So the set of PDSCH codes specified in a given instance apply for all the values of TFCI(field 2) between the "Max TFCI(field2) value" specified in the previous instance incremented by one and the specified "Max TFCI(field2)" of the considered instance.

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "Multi-Code Info" -1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #3 Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code (or a set of PDSCH codes for multicode) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "Multi Code Info" -1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

Method #4 Replace

The "TFCI (field2)" value(s) for which the mapping to PDSCH channelisation code (or a set of PDSCH codes for multicode) is changed are explicitly signalled. Furthermore, the new mapping between TFCI(field 2) value and PDSCH channelisation code(s) is spelt out explicitly for each value of TFCI (field2).

A set of PDSCH codes is composed of all the codes between "Code Number" and "Code Number" + "Multi Code Info" -1. So if multi code is not used, the set of PDSCH codes is reduced to one element indicated by the *Code Number* IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code	М		9.2.2.13	Scrambling code on which PDSCH is transmitted.
CHOICE Signalling Method	М			
≻Code Range				
>>PDSCH Code Mapping		1<maxno< del=""> CodeGrou ps></maxno<>		
>>>Spreading Factor	M		ENUMERATED (4, 8, 16, 32, 64, 128, 256,)	
>>>Multi-Code Info	м		INTEGER (116)	
>>>Start Code Number	M		INTEGER (0maxCodeNumCo mp-1)	PDSCH code start, Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
>>>Stop Code Number	₩		INTEGER (0maxCodeNumCo mp-1)	PDSCH code stop, Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
≻TFCI Range				
>>DSCH Mapping		1<maxno< del=""> TFClGrou ps></maxno<>		
<mark>>>>Max TFCI(field2)</mark> Valuo	₩		INTEGER (11023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading Factor	M		ENUMERATED (4, 8, 16, 32, 64, 128, 256,)	SF of PDSCH code
>>>Multi-Code Info	M		INTEGER (116)	
>>>Code Number	M		INTEGER (0maxCodeNumCo mp-1)	Code number of PDSCH code Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
>Explicit				
>>PDSCH Code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>Spreading Factor	M		ENUMERATED (4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>Multi-Code Info	M		INTEGER (116)	
>>>Code Number	M		INTEGER (0maxCodeNumCo mp-1)	Code number of PDSCH code Numbering as described in [18]. The maximum value is equal to the Spreading Factor - 1.
Replaced PDSCH Code		1<maxtf< del=""> CI_2_Com bs></maxtf<>		
>>>TFCI (field2)	M		INTEGER (01023)	Value of TFCI(field 2) for which PDSCH code mapping will be changed
>>>Spreading Factor	₩		ENUMERATED (4, 8, 16, 32, 64, 128, 256,)	SF of PDSCH code
>>>Multi-Code Info	M		INTEGER (116)	
>>>Code Number	M		INTEGER (0maxCodeNumCo mp-1)	Code number of PDSCH code Numbering as described in [18].

		The maximum value is equal
		to the Spreading Factor - 1.

Range Bound	Explanation
maxCodeNumComp	Maximum number of codes at the defined spreading factor, within the
	complete code tree.
maxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to
	the power of the length of the TFCI field 2)
maxNoTFCIGroups	Maximum number of groups, each group described in terms of a
	range of TFCI(field 2) values for which a single PDSCH code applies.
maxNoCodeGroups	Maximum number of groups, each group described in terms of a
	range of PDSCH channelisation code values for which a single
	spreading factor applies.

9.2.2.44A SSDT Cell Identity For EDSCHPC

Void. The SSDT Cell Identity for EDSCHPC is a temporary ID for enhanced DSCH power control assigned to a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Cell Identity For EDSCHPC			SSDT Cell Identity 9.2.2.44	

9.2.2.49A TFCI2 Bearer Information Response

<u>Void</u>. The *TFCI2 Bearer Information Response* IE provides information for TFCI2 bearer that have been established or modified.

	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
I	Binding ID	₩		9.2.1.4	
	Transport Layer Address	₩		9.2.1.63	

9.2.2.50 TFCI Signalling Mode

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Signalling Option	Μ		ENUMERATED (Normal, <u>Not Used</u> Split)	The value "Not Used" shall not be used by the CRNC. The procedure shall be rejected by the Node B if the value "Not Used" is received."Normal": meaning no split in the TFCI field (either "Logical" or "Hard") "Split": meaning there is a split in the TFCI field (either "Logical" or "Hard")
<u>Not Used</u> Split Type	<u>O</u> C-IfSplit		NULLENUMERATE D-(Hard, Logical)	"Hard" : meaning that TFCI (field 1) and TFCI (field 2) are block coded separately. "Logical" : meaning that on the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole is then encoded with a single block code.
Not UsedLength Of TFCI2	0		NULLINTEGER (110)	This IE indicates the length measured in number of bits of TFCI (field2).

Condition	Explanation
IfSplit	The IE shall be present if the TFCI Signalling Option IE is set to
	"Split".

9.2.3.x1 DSCH ID

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

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

9.2.3.x2 DSCH Information Response

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

IE/Group Name	Presence	Range	<u>IE Type and</u> <u>Reference</u>	Semantics Description
DSCH Information Response		<u>1<maxno< u=""> ofDSCHs></maxno<></u>		
<u>>DSCH ID</u>	<u>M</u>		<u>9.2.<mark>3.x1</mark></u>	
<u>>Binding ID</u>	<u>0</u>		<u>9.2.1.4</u>	
>Transport Layer Address	<u>0</u>		<u>9.2.1.63</u>	
	•		I.	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE

9.2.3.5A DSCH TDD Information

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <max noofDS CHs></max 			-	
>DSCH ID	М		9.2. <u>3.x1</u> 1.27		-	
>CCTrCH ID	Μ		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	М		9.2.1.59	For DSCH	_	
>Allocation/Retention Priority	М		9.2.1.1A		-	
>Frame Handling Priority	М		9.2.1.30		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore

Range Bound	Explanation
MaxnoofDSCHs	Maximum number of DSCH for one UE

9.3.3 **PDU Definitions** _ _ -- PDU definitions for NBAP. ___ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN ____ -- IE parameter types from other modules. _ _ IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, AllocationRetentionPriority, APPreambleSignature, APSubChannelNumber, AvailabilityStatus,

BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, SCTD-Indicator, Cause, CCTrCH-ID, CDSubChannelNumbers, CellParameterID, CellPortionID, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CFN, Channel-Assignment-Indication, ChipOffset, C-ID, Closedlooptimingadjustmentmode,

CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue. CommonMeasurementValueInformation, CommonPhysicalChannelID, Common-PhysicalChannel-Status-Information, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, CriticalityDiagnostics, CPCH-Allowed-Total-Rate, CPCHScramblingCodeNumber, CPCH-UL-DPCCH-SlotFormat, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-InformationResponse, DCH-ID, FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-DPCH-TimingAdjustment, DL-or-Global-CapacityCredit, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DLPowerAveragingWindowSize, DL-PowerBalancing-UpdatedIndicator, DL-ScramblingCode, DL-TimeslotISCP, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeslotISCPInfo, DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DSCH-ID,

DSCH-FDD-Common-Information, DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, E-AGCH-FDD-Code-Information, E-DCH-Capability, E-DCH-FDD-DL-Control-Channel-Information, E-DCH-FDD-Information, E-DCH-FDD-Information-Response, E-DCH-FDD-Information-to-Modify, E-DCH-MACdFlows-Information, E-DCH-MACdFlows-to-Delete, E-DCH-RL-Indication, E-RGCH-E-HICH-FDD-Code-Information, End-Of-Audit-Sequence-Indicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, -EnhancedDSCHPCIndicator, -EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, E-TFCS, E-TTI, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset, HSDPA-Capability, HS-PDSCH-FDD-Code-Information, HS-SCCH-ID, HS-SCCH-FDD-Code-Information, HS-SICH-ID, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IB-Type, InformationExchangeID, InformationReportCharacteristics, InformationType, Initial-DL-DPCH-TimingAdjustment-Allowed, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, IPDL-TDD-Parameters-LCR, LimitedPowerIncrease,

Local-Cell-ID, MaximumDL-PowerCapability, Maximum-PDSCH-Power MaximumTransmissionPower, Max-Number-of-PCPCHes, MaxNrOfUL-DPDCHs, MaxNrOfUL-E-DPDCHs, MaxPRACH-MidambleShifts, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MICH-CFN. MICH-Mode, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumDL-PowerCapability, MinSpreadingFactor, MinUL-ChannelisationCodeLength, MinUL-ChannelisationCodeLengthforE-DCH-FDD, Modification-Period, MultiplexingPosition, NEOT, NCyclesPerSFNperiod, NFmax, NRepetitionsPerCyclePeriod, N-INSYNC-IND, N-OUTSYNC-IND, NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, NI-Information, NodeB-CommunicationContextID, NotificationIndicatorLength, NumberOfReportedCellPortions, NStartMessage, NSubCyclesPerCyclePeriod, PagingIndicatorLength, PayloadCRC-PresenceIndicator, PCCPCH-Power, PCP-Length, PDSCH-CodeMapping, PDSCHSet-ID, PDSCH-ID, PICH-Mode, PICH-Power, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures,

PreambleThreshold, PredictedSFNSFNDeviationLimit. PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, Primary-CPICH-Usage-for-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, QE-Selector, Oth-Parameter, RACH-SlotFormat, RACH-SubChannelNumbers, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue, RequestedDataValueInformation, ResourceOperationalState, RL-Set-ID, RL-ID, RL-Specific-DCH-Info, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID, ScramblingCodeNumber, Secondary-CPICH-Information-Change, SecondaryCCPCH-SlotFormat, Segment-Type, Serving-E-DCH-RL-ID, S-FieldLength, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateQuality, SFNSFNQuality, ShutdownTimer, SIB-Originator, SpecialBurstScheduling, SignallingBearerRequestIndicator, SSDT-Cell-Identity, SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, SyncCase,

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SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, T-Cell, T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI2-BearerInformationResponse, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR, TimeSlotDirection, TimeSlotStatus, TimingAdjustmentValue, TimingAdvanceApplied, TnlQos, TOAWE, TOAWS, TransmissionDiversityApplied, TransmitDiversityIndicator, TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet, TransportLayerAddress, TSTD-Indicator, TUTRANGPS, TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateQuality, TUTRANGPSQuality, UARFCN, UC-Id, USCH-Information, USCH-InformationResponse, UL-CapacityCredit, UL-DPCCH-SlotFormat, UL-DPDCH-Indicator-For-E-DCH-Operation, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode,

UL-Timeslot-Information, UL-TimeslotLCR-Information. UL-TimeSlot-ISCP-Info. UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value. UL-TimeslotISCP-Value-IncrDecrThres, USCH-ID, HSDSCH-FDD-Information, HSDSCH-FDD-Information-Response, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, PrimaryCCPCH-RSCP, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, TDD-TPC-UplinkStepSize-LCR, CellSyncBurstTimingLCR, TimingAdjustmentValueLCR, PrimaryCCPCH-RSCP-Delta FROM NBAP-IES PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}, NBAP-PRIVATE-IES, NBAP-PROTOCOL-IES, NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD, id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD, id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD, id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-AP-AICH-Information,

id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,

id-BCH-Information,

id-BCCH-ModificationTime,

id-bindingID,

id-BlockingPriorityIndicator,

id-Cause, id-CauseLevel-PSCH-ReconfFailure. id-CauseLevel-RL-AdditionFailureFDD. id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure. id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD, id-CCP-InformationItem-AuditRsp, id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CCTrCH-Initial-DL-Power-RL-AdditionRgstTDD, id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD, id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD, id-CDCA-ICH-Information, id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD, id-CellAdjustmentInfo-SyncAdjustmntRqstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD, id-Cell-InformationItem-AuditRsp, id-Cell-InformationItem-ResourceStatusInd, id-Cell-InformationList-AuditRsp, id-CellParameterID, id-CellPortion-InformationItem-Cell-SetupRqstFDD, id-CellPortion-InformationList-Cell-SetupRqstFDD, id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD, id-cellSyncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD, id-CellSyncBurstInfoList-CellSyncReconfRqstTDD, id-CellSyncInfo-CellSyncReprtTDD, id-CFN, id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRqstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID,

id-CPCH-Information, id-CPCH-Parameters-CTCH-SetupRsp. id-CPCH-ParametersListIE-CTCH-ReconfRgstFDD. id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-AddList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information. id-DCH-TDD-Information. id-DCH-InformationResponse, id-DCH-RearrangeList-Bearer-RearrangeInd, id-DSCH-RearrangeList-Bearer-RearrangeInd, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DelayedActivation, id-DelayedActivationList-RL-ActivationCmdFDD, id-DelayedActivationList-RL-ActivationCmdTDD, id-DelayedActivationInformation-RL-ActivationCmdFDD, id-DelayedActivationInformation-RL-ActivationCmdTDD, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-DL-CCTrCH-InformationList-RL-SetupRqstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRqstTDD, id-DL-DPCH-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-DPCH-TimingAdjustment, id-DL-DPCH-Power-Information-RL-ReconfPrepFDD, id-DL-PowerBalancing-Information,

id-DL-PowerBalancing-ActivationIndicator,

id-DL-ReferencePowerInformationItem-DL-PC-Rqst, id-DL-PowerBalancing-UpdatedIndicator, id-DLReferencePower. id-DLReferencePowerList-DL-PC-Rqst, id-DL-TPC-Pattern01Count. id-DPC-Mode, id-DPCHConstant, -id-DSCH-AddItem-RL-ReconfPrepFDD, -id-DSCHs-to-Add-FDD, -id-DSCH-DeleteItem-RL-ReconfPrepFDD, id-DSCH-DeleteList-RL-ReconfPrepFDD, id-DSCHs-to-Add-TDD, id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, -id-DSCH-FDD-Information, -id-DSCH-FDD-Common-Information, id-DSCH-TDD-Information, id-DSCH-ModifyItem-RL-ReconfPrepFDD, id-DSCH-ModifyList-RL-ReconfPrepFDD, id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code, id-E-AGCH-FDD-Code-Information, id-E-DCH-Capability, id-E-DCH-FDD-DL-Control-Channel-Information, id-E-DCH-FDD-Information, id-E-DCH-FDD-Information-Response, id-E-DCH-FDD-Information-to-Modify, id-E-DCH-MACdFlows-to-Add, id-E-DCH-MACdFlows-to-Delete, id-E-DCH-Resources-Information-AuditRsp, id-E-DCH-Resources-Information-ResourceStatusInd, id-E-DCH-RL-Indication, id-E-DCH-RL-Set-ID, id-E-DPCH-Information-RL-ReconfPrepFDD, id-E-DPCH-Information-RL-ReconfRqstFDD, id-E-DPCH-Information-RL-SetupRqstFDD, id-E-RGCH-E-HICH-FDD-Code-Information, id-End-Of-Audit-Sequence-Indicator, -id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-FACH-Information, id-FACH-ParametersList-CTCH-ReconfRqstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstTDD, id-F-DPCH-Information-RL-ReconfPrepFDD, id-F-DPCH-Information-RL-SetupRqstFDD, id-HSDPA-CellPortion-InformationItem-PSCH-ReconfRqst, id-HSDPA-CellPortion-InformationList-PSCH-ReconfRqst, id-IndicationType-ResourceStatusInd, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rqst,

id-InformationExchangeObjectType-InfEx-Rsp, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationReportCharacteristics, id-InformationType, id-InitDL-Power. id-Initial-DL-DPCH-TimingAdjustment, id-Initial-DL-DPCH-TimingAdjustment-Allowed, id-InnerLoopDLPCStatus, id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRgstFDD, id-IPDLParameter-Information-Cell-SetupRqstFDD, id-IPDLParameter-Information-Cell-ReconfRqstTDD, id-IPDLParameter-Information-Cell-SetupRqstTDD, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRgstFDD, id-Local-Cell-ID. id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp, id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd, id-Local-Cell-InformationItem2-ResourceStatusInd, id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-MeasurementFilterCoefficient. id-MeasurementID, id-MeasurementRecoveryBehavior, id-MeasurementRecovervReportingIndicator, id-MeasurementRecoverySupportIndicator, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst, id-MICH-CFN, id-MICH-Information-AuditRsp, id-MICH-Information-ResourceStatusInd, id-MICH-Parameters-CTCH-ReconfRqstFDD, id-MICH-Parameters-CTCH-ReconfRqstTDD, id-MICH-Parameters-CTCH-SetupRgstFDD, id-MICH-Parameters-CTCH-SetupRqstTDD, id-Modification-Period, id-multipleRL-dl-DPCH-InformationList, id-multipleRL-dl-DPCH-InformationModifyList, id-multiple-RL-Information-RL-ReconfPrepTDD, id-multiple-RL-Information-RL-ReconfRgstTDD, id-multipleRL-ul-DPCH-InformationList, id-multipleRL-ul-DPCH-InformationModifyList, id-NCyclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NI-Information-NotifUpdateCmd, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-NumberOfReportedCellPortions,

id-P-CCPCH-Information, id-P-CPICH-Information. id-P-SCH-Information. id-PCCPCH-Information-Cell-ReconfRgstTDD, id-PCCPCH-Information-Cell-SetupRgstTDD, id-PCH-Parameters-CTCH-ReconfRgstTDD, id-PCH-Parameters-CTCH-SetupRsp, id-PCH-ParametersItem-CTCH-ReconfRgstFDD, id-PCH-ParametersItem-CTCH-SetupRqstFDD, id-PCH-ParametersItem-CTCH-SetupRqstTDD, id-PCH-Information, id-PCPCH-Information, id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, -id-PDSCH-Information-Cell-ReconfRgstFDD, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCH-RL-ID, id-PDSCHSets-AddList-PSCH-ReconfRgst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst, id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information, id-PICH-Parameters-CTCH-ReconfRqstTDD, id-PICH-ParametersItem-CTCH-SetupRgstTDD, id-PowerAdjustmentType, id-Power-Local-Cell-Group-choice-CM-Rgst, id-Power-Local-Cell-Group-choice-CM-Rsp, id-Power-Local-Cell-Group-choice-CM-Rprt, id-Power-Local-Cell-Group-InformationItem-AuditRsp, id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList-AuditRsp, id-Power-Local-Cell-Group-InformationList-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd, id-Power-Local-Cell-Group-ID, id-PRACH-Information. id-PRACHConstant. id-PRACH-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRgstFDD, id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD, id-PrimaryCCPCH-Information-Cell-SetupRqstFDD, id-PrimaryCPICH-Information-Cell-ReconfRqstFDD, id-PrimaryCPICH-Information-Cell-SetupRqstFDD, id-Primary-CPICH-Usage-for-Channel-Estimation, id-PrimarvSCH-Information-Cell-ReconfRgstFDD, id-PrimarySCH-Information-Cell-SetupRqstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRqstTDD, id-SCH-Information-Cell-SetupRqstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRqst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PUSCHConstant, id-PUSCHSets-AddList-PSCH-ReconfRqst,

id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifyList-PSCH-ReconfRqst, id-Oth-Parameter. id-RACH-Information, id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRgstFDD, id-RACH-ParameterItem-CTCH-SetupRqstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-ResetIndicator. id-RL-ID. id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-AdditionRgstFDD, id-RL-informationItem-RL-DeletionRgst, id-RL-InformationItem-RL-FailureInd, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-ReconfPrepFDD, id-RL-InformationItem-RL-ReconfRqstFDD, id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-AdditionRqstFDD, id-RL-informationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRqstFDD, id-RL-InformationList-RL-SetupRgstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-Information-RL-AdditionRqstTDD, id-RL-Information-RL-ReconfRqstTDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRgstTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd, id-RL-Set-InformationItem-RL-RestoreInd, id-RL-Specific-DCH-Info, id-S-CCPCH-Information,

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id-S-CCPCH-Information,
id-S-CCPCH-InformationListExt-AuditRsp,
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id-S-CCPCH-InformationListExt-ResourceStatusInd, id-S-CCPCH-LCR-InformationListExt-AuditRsp. id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd. id-S-CPICH-Information. id-SCH-Information. id-S-SCH-Information, id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD, id-Secondary-CPICH-Information, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD, id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD, id-Secondary-CPICH-Information-Change, id-SecondarySCH-Information-Cell-ReconfRgstFDD, id-SecondarySCH-Information-Cell-SetupRqstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-Serving-E-DCH-RL-ID, id-SFN, id-SFNReportingIndicator, id-ShutdownTimer, id-SignallingBearerRequestIndicator, id-SSDT-CellIDforEDSCHPC, id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Successful-RL-InformationRespItem-RL-SetupFailureFDD, id-Synchronisation-Configuration-Cell-ReconfRqst, id-Synchronisation-Configuration-Cell-SetupRgst, id-SyncCase, id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH, id-SyncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell. id-TargetCommunicationControlPortID, id TFCI2 Bearer Information RL SetupRgstFDD, <u>id-TFCI2BearerRequestIndicator</u>, id-Transmission-Gap-Pattern-Sequence-Information, id-TimeSlotConfigurationList-Cell-ReconfRqstTDD, id-TimeSlotConfigurationList-Cell-SetupRqstTDD, id-timeslotInfo-CellSyncInitiationRgstTDD, id-TimeslotISCPInfo, id-TimingAdvanceApplied, id-TnlOos, id-TransmissionDiversityApplied, id-transportlayeraddress, id-Tstd-indicator, id-UARFCNforNt, id-UARFCNforNd,

id-UARFCNforNu,

id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD. id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRgstTDD, id-UL-DPCH-InformationList-RL-SetupRqstTDD, id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRgstFDD,

id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPDCH-Indicator-For-E-DCH-Operation,

id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,

id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,

id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,

id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,

id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,

id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD, id-USCH-Information-Add,

id-USCH-Information-DeleteList-RL-ReconfPrepTDD,

id-USCH-Information-ModifyList-RL-ReconfPrepTDD,

id-USCH-InformationResponse,

id-USCH-Information,

id-USCH-RearrangeList-Bearer-RearrangeInd, id-DL-DPCH-LCR-Information-RL-SetupRgstTDD,

id-DwPCH-LCR-Information

id-DwPCH-LCR-InformationList-AuditRsp, id-DwPCH-LCR-Information-Cell-SetupRqstTDD,

id-DwPCH-LCR-Information-Cell-ReconfRgstTDD, id-DwPCH-LCR-Information-ResourceStatusInd,

id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,

id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD,

id-FPACH-LCR-Information,

id-FPACH-LCR-Information-AuditRsp,

id-FPACH-LCR-InformationList-AuditRsp,

id-FPACH-LCR-InformationList-ResourceStatusInd, id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD,

id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,

id-PCCPCH-LCR-Information-Cell-SetupRgstTDD,

id-PCH-Power-LCR-CTCH-SetupRqstTDD,

id-PCH-Power-LCR-CTCH-ReconfRqstTDD,

id-PICH-LCR-Parameters-CTCH-SetupRgstTDD,

id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD,

id-RL-InformationResponse-LCR-RL-SetupRspTDD id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD. id-TimeSlot. id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD, id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD, id-TimeSlotLCR-CM-Rgst, id-UL-DPCH-LCR-Information-RL-SetupRgstTDD, id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD, id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD, id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD, id-UL-SIRTarget, id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-PSCH-ReconfRgst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-Info-DM-Rqst, id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD, id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD, id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD, id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst, id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRast, id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst, id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst, id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst, id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD, id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD, id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD, id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRgstTDD, id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD, id-SvncDLCodeIdsMeasInfoList-CellSvncReprtTDD, id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD, id-DwPCH-Power, id-AccumulatedClockupdate-CellSyncReprtTDD, id-HSDPA-Capability, id-HSDSCH-FDD-Information, id-HSDSCH-FDD-Information-Response,

id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised. id-HSDSCH-MACdFlows-to-Add. id-HSDSCH-MACdFlows-to-Delete. id-HSDSCH-RearrangeList-Bearer-RearrangeInd, id-HSDSCH-Resources-Information-AuditRsp, id-HSDSCH-Resources-Information-ResourceStatusInd, id-HSDSCH-RNTI, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSSICH-Info-DM-Rprt, id-HSSICH-Info-DM-Rgst, id-HSSICH-Info-DM-Rsp, id-PrimCCPCH-RSCP-DL-PC-RqstTDD, id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-UL-Synchronisation-Parameters-LCR, id-DL-DPCH-TimeSlotFormat-LCR-ModifvItem-RL-ReconfPrepTDD, id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD, id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRgstTDD, id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD, id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD, id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD, id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD, id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD, id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD, id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD, id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRgstTDD, id-TDD-TPC-DownlinkStepSize-RL-AdditionRgstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD, id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD, id-TimingAdjustmentValueLCR, id-PrimaryCCPCH-RSCP-Delta,

maxNrOfCCTrCHs, maxNrOfCellSyncBursts, maxNrOfCodes, maxNrOfCPCHs, maxNrOfDCHs, maxNrOfDLTSs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDPCHs,

maxNrOfDPCHLCRs, maxNrOfDSCHs, maxNrOfFACHs. maxNrOfRLs, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPCPCHs, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHsinExt, maxNrOfSCCPCHLCRs, maxNrOfSCCPCHsLCRinExt, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs, maxAPSigNum, maxCPCHCell, maxFACHCell, maxFPACHCell, maxNoofLen, maxRACHCell, maxPCPCHCell, maxPRACHCell, maxSCCPCHCell, maxSCCPCHCellinExt, maxSCCPCHCellinExtLCR, maxSCPICHCell, maxCellinNodeB, maxCCPinNodeB, maxCommunicationContext, maxLocalCellinNodeB, maxNrOfSlotFormatsPRACH, maxIB, maxIBSEG, maxNrOfCellPortionsPerCell, maxNrOfHSSCCHs, maxNrOfHSSICHs, maxNrOfHSPDSCHs, maxNrOfSyncFramesLCR, maxNrOfReceptionsperSyncFrameLCR, maxNrOfSyncDLCodesLCR, maxNrOfMACdFlows FROM NBAP-Constants;

 Cell setup request fdd	

CellSetupRequestFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellSetupRequestFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}} OPTIONAL,	
}	
CellSetupRequestFDD-IES NBAP-FROTOCOL-IES ::= { CRITICALITY reject TYPE Local-Cell-ID PRESENCE mandatory { ID id-ConfigurationGenerationID CRITICALITY reject TYPE C-ID PRESENCE mandatory { ID id-ConfigurationGenerationID CRITICALITY reject TYPE C-ID PRESENCE mandatory { ID id-ConfigurationGenerationID CRITICALITY reject TYPE T-Cell PRESENCE mandatory { ID id-UARPCNforNu CRITICALITY reject TYPE UARPCN PRESENCE mandatory { ID id-UARPCNforNd CRITICALITY reject TYPE UARPCN PRESENCE mandatory { ID id-UARPCNforNd CRITICALITY reject TYPE UARPCN PRESENCE mandatory { ID id-PrimaryScramblingCode CRITICALITY reject TYPE VARPCN PRESENCE mandatory { ID id-D-TPC-PatternOlCount CRITICALITY reject TYPE PrimaryScramblingCode PRESENCE mandatory { ID id-D-TrimarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD PRESENC mandatory }} [ID id-PrimaryCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimaryCH-Information-Cell-SetupRqstFDD PRESENC mandatory }] [ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE Prim	7 } 7 } 7 } 7 } 7 } 7 } 7 } 7 } 7 } 7 7]
}	
CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-IPDLParameter-Information-Cell-SetupRqstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstFDD PRESENCE optional } { ID id-PDSCH Information-Cell-SetupRqstFDD CRITICALITY reject EXTENSION PDSCH Information Cell SetupRqstFDD PRESENCE optional } { ID id-CellPortion-InformationList-Cell-SetupRqstFDD CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-SetupRqstFDD PRESENCE optional }, } Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE { n-INSYNC-IND N-INSYNC-IND, n-OUTSYNC-IND N-OUTSYNC-IND, } } }	

```
t-RLFAILURE
                            T-RLFAILURE,
    iE-Extensions
                            ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-SetupRqst-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
Synchronisation-Configuration-Cell-SetupRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
                                            CommonPhysicalChannelID,
    commonPhysicalChannelID
    primarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL
    . . .
}
PrimarySCH-Information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                             PrimaryCPICH-Power,
    transmitDiversityIndicator
                                             TransmitDiversityIndicator,
                                             ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
                                                                     CRITICALITY
                                                                                      reject
                                                                                                                      TYPE SecondaryCPICH-
InformationItem-Cell-SetupRqstFDD
                                        PRESENCE
                                                     mandatory }
}
```

```
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    dl-ScramblingCode
                                             DL-ScramblingCode.
    fDD-DL-ChannelisationCodeNumber
                                             FDD-DL-ChannelisationCodeNumber,
    secondaryCPICH-Power
                                             DL-Power.
    transmitDiversityIndicator
                                             TransmitDiversityIndicator,
                                             ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
                                            CommonPhysicalChannelID,
    commonPhysicalChannelID
    bCH-information
                                             BCH-Information-Cell-SetupRgstFDD,
    sTTD-Indicator
                                             STTD-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BCH-Information-Cell-SetupRgstFDD ::= SEQUENCE {
    commonTransportChannelID
                                             CommonTransportChannelID,
    bCH-Power
                                             DL-Power,
    iE-Extensions
                                             ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                            OPTIONAL,
 }
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
    powerRaiseLimit
                                             PowerRaiseLimit,
    dLPowerAveragingWindowSize
                                             DLPowerAveragingWindowSize,
                                             ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
}
Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDLParameter-Information-Cell-SetupRqstFDD::= SEQUENCE {
    iPDL-FDD-Parameters
                                                 IPDL-FDD-Parameters,
    iPDL-Indicator
                                                 IPDL-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
```

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```
. . .
}
IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
PDSCH Information Cell SetupRastFDD ::= SEQUENCE {
+
PDSCH Information Cell SetupRgstFDD Extles NBAP PROTOCOL EXTENSION ::= {
+
CellPortion-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container{{ CellPortion-
InformationItemIE-Cell-SetupRqstFDD }}
CellPortion-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
   { ID id-CellPortion-InformationItem-Cell-SetupRqstFDD CRITICALITY reject TYPE CellPortion-InformationItem-Cell-SetupRqstFDD
   PRESENCE
             mandatory}
}
CellPortion-InformationItem-Cell-SetupRqstFDD::= SEQUENCE
   cellPortionID
                                     CellPortionID,
   associatedSecondaryCPICH
                                     CommonPhysicalChannelID,
                                     ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-SetupRqstFDD-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL,
   . . .
}
CellPortion-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
. . .
}
```

}

```
_ _
-- CELL RECONFIGURATION REQUEST FDD
_ _
  ******
CellReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                {{CellReconfigurationRequestFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{CellReconfigurationRequestFDD-Extensions}}
                                                                                                               OPTIONAL,
   . . .
}
CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-C-ID
                                                                CRITICALITY reject TYPE C-ID
   PRESENCE mandatory } |
   { ID id-ConfigurationGenerationID
                                                                CRITICALITY reject TYPE ConfigurationGenerationID
   PRESENCE mandatory }
                                                                CRITICALITY reject TYPE MaximumTransmissionPower
   { ID id-MaximumTransmissionPower
   PRESENCE optional }|
          id-Synchronisation-Configuration-Cell-ReconfRqst
                                                                CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
   { ID
   PRESENCE optional }|
          id-PrimarySCH-Information-Cell-ReconfRqstFDD
                                                                CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
   { ID
   PRESENCE optional }
   { ID
         id-SecondarySCH-Information-Cell-ReconfRqstFDD
                                                                CRITICALITY reject TYPE SecondarySCH-Information-Cell-ReconfRqstFDD
   PRESENCE optional }|
          id-PrimaryCPICH-Information-Cell-ReconfRqstFDD
                                                                CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD
   { ID
   PRESENCE optional }
   { ID
          id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD
                                                                CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-ReconfRgstFDD
   PRESENCE optional }
   { ID
          id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
                                                                CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
   PRESENCE optional },
   . . .
CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-IPDLParameter-Information-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
   PRESENCE optional }+
   ID id PDSCH Information Cell ReconfRqstFDD CRITICALITY reject EXTENSION PDSCH Information Cell ReconfRqstFDD
   PRESENCE optional },
   . . .
Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
   n-INSYNC-IND
                         N-INSYNC-IND,
   n-OUTSYNC-IND
                          N-OUTSYNC-IND,
   t-RLFAILURE
                         T-RLFAILURE,
   iE-Extensions
                         ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs } }
                                                                                                               OPTIONAL,
   . . .
Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
```

```
PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEOUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primarySCH-Power
                                            DL-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRgstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL.
    . . .
PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondarySCH-Information-Cell-ReconfRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondarySCH-Power
                                            DL-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRgstFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
                                            ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD
                                                                    CRITICALITY reject TYPE
                                                                                                  SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD
    PRESENCE mandatory }
}
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                CommonPhysicalChannelID,
    secondarvCPICH-Power
                                                DL-Power,
    iE-Extensions
                                                ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs } }
    OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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```
PrimaryCCPCH-Information-Cell-ReconfRgstFDD ::= SEQUENCE {
    bCH-information
                                           BCH-information-Cell-ReconfRgstFDD,
    iE-Extensions
                                           ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
 ļ
PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                           CommonTransportChannelID,
    bCH-Power
                                           DL-Power,
                                           ProtocolExtensionContainer { { BCH-information-Cell-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE {
    iPDL-FDD-Parameters
                                               IPDL-FDD-Parameters
                                                                       OPTIONAL,
    iPDL-Indicator
                                               IPDL-Indicator,
    iE-Extensions
                                           ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PDSCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
   maximumPDSCH-Power Maximum-PDSCH-Power,
                             - ProtocolExtensionContainer { { PDSCH Information Cell ReconfRqstFDD ExtIEs } } OPTIONAL,
}
PDSCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
+
```

 RADIO LINK SETUP REQUEST FDD					
 **********************************	* * * * * * * * * * * * * *				
RadioLinkSetupRequestFDD ::= SEQUENCE {					
protocolIEs ProtocolIE-Container	{{RadioLinkSetupRed	questFDD-	<pre>IEs}},</pre>		
protocolExtensions ProtocolExtensionConta	iner {{RadioLinkSet	upRequest	FDD-Extensions}}	OPTIONAL	,
ł					
RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::=	{				
{ ID id-CRNC-CommunicationContextID	L C C C C C C C C C C C C C C C C C C C	Y reject	TYPE CRNC-CommunicationContextID		PRESENCE mandatory
{ ID id-UL-DPCH-Information-RL-SetupRqstFDD		5	TYPE UL-DPCH-Information-RL-SetupRqst	ממי	PRESENCE mandatory
{ ID id-DL-DPCH-Information-RL-SetupRqstFDD		-	TYPE DL-DPCH-Information-RL-SetupRqst		PRESENCE optional }
{ ID id-DCH-FDD-Information		-	TYPE DCH-FDD-Information		PRESENCE mandatory
{ ID id-DSCH-FDD-Information			TYPE DSCH-FDD-Information		PRESENCE optional
	DD CRITICALITY	<u>Y ignore</u>	TYPE TFCI2 Bearer Information RL Setu	PRqstFDD	PRESENCE optional
{ ID id-RL-InformationList-RL-SetupRqstFDD	CRITICALITY	Y notify	TYPE RL-InformationList-RL-SetupRqstF	סס	PRESENCE mandatory
{ ID id-Transmission-Gap-Pattern-Sequence-Inform	mation CRITICALITY	Y reject	TYPE Transmission-Gap-Pattern-Sequence	e-Informat	ion
PRESENCE optional }					
{ ID id-Active-Pattern-Sequence-Information	CRITICALITY	Y reject	TYPE Active-Pattern-Sequence-Informat	ion	PRESENCE optional
•••					
}					
And interactions and the second and the second					
RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL- { ID id-DSCH-FDD-Common-Information		EVENOT	ON DSCH-FDD-Common-Information	DDECENCE	-optional }
{ ID id-DL-PowerBalancing-Information	CRITICALITY ignore		ON DL-PowerBalancing-Information		optional }
{ ID id-HSDSCH-FDD-Information	CRITICALITY reject		ON HSDSCH-FDD-Information		optional }
{ ID id-HSDSCH-FDD INFORMACION { ID id-HSDSCH-RNTI	CRITICALITY reject		ON HSDSCH-FDD-INIOIMACION ON HSDSCH-RNTI		conditional }
The IE shall be present if HS-DSCH Informat	5	DITIDITOL		TREDERCE	conditional j
	<i>ion</i> LE is present				
		EXTENSI	ON RL-ID	PRESENCE	conditional }
{ ID id-HSPDSCH-RL-ID - The IE shall be present if <i>HS-DSCH Informat</i>	CRITICALITY reject	EXTENSI	ON RL-ID	PRESENCE	conditional }
{ ID id-HSPDSCH-RL-ID	CRITICALITY reject		ON RL-ID ON E-DPCH-Information-RL-SetupRqstFDD		conditional } optional }
{ ID id-HSPDSCH-RL-ID The IE shall be present if <i>HS-DSCH Informat</i>	CRITICALITY reject ion IE is present	EXTENSI		PRESENCE	
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject	EXTENSI	ON E-DPCH-Information-RL-SetupRqstFDD	PRESENCE	optional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present	EXTENSI EXTENSI	ON E-DPCH-Information-RL-SetupRqstFDD	PRESENCE PRESENCE	optional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information }</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present	EXTENSI EXTENSI EXTENSI	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID	PRESENCE PRESENCE	optional } conditional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional },</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional },</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, </pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT ed CRITICALITY	EXTENSI EXTENSI EXTENSI TENSION F	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Information { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Information { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-Scr.</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EXT ed CRITICALITY amblingCode,	EXTENSI EXTENSI EXTENSI TENSION F Y ignore	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Informati. { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Informati. { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-Scr. minUL-ChannelisationCodeLength MinUL-</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EX ed CRITICALITY amblingCode, ChannelisationCodeLen	EXTENSI EXTENSI EXTENSION F Y ignore	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Informati. { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Informati. { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-Scr. minUL-ChannelisationCodeLength MinUL- maxNrOfUL-DPDCHs MaxNrO</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EX ed CRITICALITY amblingCode, ChannelisationCodeLen fUL-DPDCHs OP	EXTENSI EXTENSI EXTENSION F Y ignore ngth, TIONAL,	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF EXTENSION Initial-DL-DPCH-TimingAdjus	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Informati. { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Informati. { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-Scr minUL-ChannelisationCodeLength MinUL- maxNrOfUL-DPDCHs MaxNrO This IE shall be present if Min UL Channeli</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EX ed CRITICALITY amblingCode, ChannelisationCodeLen fUL-DPDCHs OP sation Code length II	EXTENSI EXTENSI EXTENSION F Y ignore ngth, TIONAL,	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF EXTENSION Initial-DL-DPCH-TimingAdjus	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Informati. { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Informati. { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-Scr minUL-ChannelisationCodeLength MinUL- maxNrOfUL-DPDCHs MaxNrO This IE shall be present if Min UL Channeli ul-PunctureLimit Puncture</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EX ed CRITICALITY amblingCode, ChannelisationCodeLen fUL-DPDCHs OP	EXTENSI EXTENSI EXTENSION F Y ignore ngth, TIONAL,	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF EXTENSION Initial-DL-DPCH-TimingAdjus	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }
<pre>{ ID id-HSPDSCH-RL-ID The IE shall be present if HS-DSCH Informat { ID id-E-DPCH-Information-RL-SetupRqstFDD { ID id-E-DCH-FDD-Information The IE shall be present if E-DPCH Informati. { ID id-Serving-E-DCH-RL-ID The IE shall be present if E-DPCH Informati. { ID id-F-DPCH-Information-RL-SetupRqstFDD CR { ID id-Initial-DL-DPCH-TimingAdjustment-Allow PRESENCE optional }, } UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { ul-ScramblingCode UL-Scr minUL-ChannelisationCodeLength MinUL- maxNrOfUL-DPDCHs MaxNrO This IE shall be present if Min UL Channeli ul-PunctureLimit Punctu tFCS TFCS,</pre>	CRITICALITY reject ion IE is present CRITICALITY reject CRITICALITY reject on IE is present CRITICALITY reject on IE is present ITICALITY reject EX ed CRITICALITY amblingCode, ChannelisationCodeLen fUL-DPDCHs OP sation Code length II	EXTENSI EXTENSI EXTENSION F Y ignore ngth, TIONAL,	ON E-DPCH-Information-RL-SetupRqstFDD ON E-DCH-FDD-Information ON Serving-E-DCH-RL-ID -DPCH-Information-RL-SetupRqstFDD PF EXTENSION Initial-DL-DPCH-TimingAdjus	PRESENCE PRESENCE PRESENCE RESENCE OP	optional } conditional } conditional } tional }

```
UL-SIR,
    ul-SIR-Target
    diversityMode
                                            DiversityMode,
    sSDT-CellID-Length
                                            SSDT-CellID-Length
                                                                    OPTIONAL.
    s-FieldLength
                                            S-FieldLength
                                                                    OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DPC-Mode
                                                    CRITICALITY reject EXTENSION DPC-Mode
                                                                                                                            PRESENCE optional }
    ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation
                                                                                                                            PRESENCE conditional },
    -- The IE shall be present if E-DPCH Information IE is present
    . . .
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE
    tFCS
                                            TFCS.
    dl-DPCH-SlotFormat
                                            DL-DPCH-SlotFormat,
    tFCI-SignallingMode
                                           TFCI-SignallingMode,
    tFCI-Presence
                                            TFCI-Presence
                                                                            OPTIONAL,
    -- this IE shall be present if the DL DPCH slot format IE is set to any of the values from 12 to 16 --
    multiplexingPosition
                                           MultiplexingPosition,
                                                      not-Used-pDSCH-RL-ID
                                                                                           OPTIONAL,
    -- This IE shall be present if the DSCH Information IE is present --
    not-Used-pDSCH-CodeMapping
                                                  OPTIONAL,
     This IE shall be present if the DSCH Information IE is present
    powerOffsetInformation
                                            PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                            FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                            LimitedPowerIncrease,
    innerLoopDLPCStatus
                                            InnerLoopDLPCStatus,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRgstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                            PowerOffset,
                                            PowerOffset,
    pO2-ForTPC-Bits
    pO3-ForPilotBits
                                            PowerOffset,
    iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCI2-Bearer-Information-RL-SetupRgstFDD ::= SEQUENCE {
   toAWS
                                       TOAWS,
    TOAWE
                                        TOAWE .
```

	ProtocolExtensionContain	er { { TFCI2-H	Bearer-Information-RL-Setup	RqstFDD-ExtIEs} } OPTIONAL,
<u> </u>				
J				
TFCI2-Bearer-Information-RL-SetupRqstFI		· · · · · · · · · · · · · · · · · · ·	DindingTD	PRESENCE optional }
{ ID id-bindingID	<u> </u>		BindingID TransportLayerAddress	PRESENCE optional } PRESENCE optional } .
			frampor chay critical coo	
}				
DI Information Lint DI Catur DurateDD 11	CROWENCE (CLER (1	fpt -)) 07		
RL-InformationList-RL-SetupRqstFDD ::= ProtocolIE-Single-Container{{ RL-Ir				
		4961 <i>99</i>))		
RL-InformationItemIE-RL-SetupRqstFDD NH				
{ ID id-RL-InformationItem-RL-Se		ICALITY no	otify TYPE	RL-InformationItem-RL-
SetupRqstFDD PRESENCE mandato	pry}			
]				
RL-InformationItem-RL-SetupRqstFDD ::=	SEQUENCE {			
rL-ID	RL-ID,			
c-ID firstRLS-indicator	C-ID, RivetDIG, Indianter			
frameOffset	<pre>FirstRLS-Indicator, FrameOffset,</pre>			
chipOffset	ChipOffset,			
propagationDelay	PropagationDelay	OPTIONAL,		
diversityControlField	DiversityControlField	OPTIONAL,		
This IE shall be present if the		n the RL Infor	mation IE	
dl-CodeInformation initialDL-transmissionPower	<pre>FDD-DL-CodeInformation, DL-Power,</pre>			
maximumDL-power	DL-Power,			
minimumDL-power	DL-Power,			
sSDT-Cell-Identity	SSDT-Cell-Identity	OPTIONAL,		
transmitDiversityIndicator	TransmitDiversityIndicat		,	
This IE shall be present if Dive iE-Extensions			roup is not set to "none" prmationItem-RL-SetupRqstFD	D-ExtIEs} } OPTIONAL,
	110000011Accinbroncontarin			b Encillo, j official,
}				
		(
RL-InformationItem-RL-SetupRqstFDD-Ext]			TENSION SSDT-Cell-Identity	PRESENCE conditional }
		-		TRESERVED CONdicional J
{ ID id-RL-Specific-DCH-Info			TENSION RL-Specific-DCH-In	fo PRESENCE optional }
{ ID id-DelayedActivation			TENSION DelayedActivation	PRESENCE optional }
{ ID id-Qth-Parameter		-	TENSION Qth-Parameter	PRESENCE optional }
{ ID id-Primary-CPICH-Usage-for-Cha	innel-Estimation CRITICAL	ITY ignore E2	TENSION Primary-CPICH-Usag	e-for-Channel-Estimation PRESENCE optional
{ ID id-Secondary-CPICH-Information	CRITICAL	ITY ignore EX	TENSION CommonPhysicalChan	nelID PRESENCE optional }
{ ID id-E-DCH-RL-Indication			TENSION E-DCH-RL-Indicatio	
} E-DPCH-Information-RL-SetupRqstFDD ::=	SECHENCE (
minUL-ChannelisationCodeLengthforE-		tionCodeLength	forE-DCH-FDD,	
maxNrOfUL-E-DPDCHs	MaxNrOfUL-E-DPDC	-	,	OPTIONAL,

```
-- The IE shall be present if Min UL Channelisation Code Length For E-DCH FDD IE equals 2
    ul-PunctureLimit
                                                 PunctureLimit,
    e-TFCS
                                                 E-TFCS.
    e-TTI
                                                 E-TTI,
                                                 ProtocolExtensionContainer { { E-DPCH-Information-RL-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
E-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
F-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    powerOffsetInformation
                                        PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                        FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                        LimitedPowerIncrease,
    innerLoopDLPCStatus
                                        InnerLoopDLPCStatus,
                                        ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
}
F-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE {
    pO2-ForTPC-Bits
                                        PowerOffset,
                                        ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UNCHANGED TEXT IS REMOVED
```

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 RADIO LINK SETUP RESPONSE FDD		
 *********************************	* * * * * * * * *	
	RadioLinkSetupResponseFDD-IEs}}, {{RadioLinkSetupResponseFDD-Extensions}}	OPTIONAL,
}		
RadioLinkSetupResponseFDD-IES NBAP-PROTOCOL-IES ::= { { ID id-CRNC-CommunicationContextID { ID id-NodeB-CommunicationContextID { ID id-CommunicationControlPortID { ID id-RL-InformationResponseList-RL-SetupRspFDD { ID-id-TFCI2-BearerInformationResponse } }	CRITICALITY ignore TYPE CRNC-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID CRITICALITY ignore TYPE CommunicationControlPortID CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupR CRITICALITY ignore TYPE TFCI2-BearerInformationResponse	PRESENCE mandatory } PRESENCE mandatory } PRESENCE mandatory } spFDD PRESENCE mandatory } PRESENCE optional }
{ ID id-CriticalityDiagnostics	CRITICALITY ignore TYPE CriticalityDiagnostics	PRESENCE optional },
}		
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXT { ID id-HSDSCH-FDD-Information-Response { ID id-E-DCH-FDD-Information-Response	ENSION ::= { CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response	PRESENCE optional } PRESENCE optional },
}		
RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE SetupRspFDD }}	: (SIZE (1maxNrOfRLs)) OF ProtocolIE-Single-Container{{ RL-Info	ormationResponseItemIE-RL-
RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTO { ID id-RL-InformationResponseItem-RL-SetupRspF SetupRspFDD PRESENCE mandatory} }		L-InformationResponseItem-RL-
rL-Set-ID RI received-total-wide-band-power Re diversityIndication Di <u>not-Used-</u> dSCH-InformationResponseList —	: { ID, Set-ID, :ceived-total-wide-band-power-Value, .versityIndication-RL-SetupRspFDD, 	OPTIONAL,
	otocolExtensionContainer { { RL-InformationResponseItem-RL-Setu	<pre>pRspFDD-ExtIEs }</pre>
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP- { ID id-DL-PowerBalancing-ActivationIndicator	PROTOCOL-EXTENSION ::= { CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationInd	icator PRESENCE optional
} { ID id-E-DCH-RL-Set-ID }	CRITICALITY ignore EXTENSION RL-Set-ID	PRESENCE optional

```
{ ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                        CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                                     PRESENCE optional
}|
      ID id-Initial-DL-DPCH-TimingAdjustment
                                                         CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                                     PRESENCE optional
},
    . . .
ι
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                                 Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                                 NonCombiningOrFirstRL-RL-SetupRspFDD
}
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
}
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                                                DCH-InformationResponse,
    iE-Extensions
                                                     ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
}
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH InformationResponseList RL SetupRspFDD ::= ProtocollE Single Container {{ DSCH InformationResponseListIEs RL SetupRspFDD }}
DSCH-InformationResponseListIEs-RL-SetupRspFDD_NBAP-PROTOCOL-IES ::= {
    { ID id DSCH InformationResponse CRITICALITY ignore TYPE DSCH InformationResponse
                                                                                                 PRESENCE mandatory }
+
UNCHANGED TEXT IS REMOVED
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_ _ -- RADIO LINK SETUP FAILURE FDD _ _ RadioLinkSetupFailureFDD ::= SEQUENCE { {{RadioLinkSetupFailureFDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL, RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } | { ID id-NodeB-CommunicationContextID PRESENCE conditional }| CRITICALITY ignore TYPE NodeB-CommunicationContextID -- This IE shall be present if at least one of the radio links has been successfully set up ID id-CommunicationControlPortID PRESENCE optional } CRITICALITY ignore TYPE CommunicationControlPortID ID id-CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } | CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } CauseLevel-RL-SetupFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-SetupFailureFDD, rLSpecificCause RLSpecificCauseList-RL-SetupFailureFDD, . . . GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE cause Cause. iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE { unsuccessful-RL-InformationRespList-RL-SetupFailureFDD Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD, successful-RL-InformationRespList-RL-SetupFailureFDD Successful-RL-InformationRespList-RL-SetupFailureFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . } RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional } ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional }, . . .

}

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Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD }} Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= { { TD id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } } Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, cause Cause. iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-InformationRespItemIE-RL-SetupFailureFDD }} Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= id-Successful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Successful-RL-{ ID InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } } Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE { rL-TD RL-ID, rL-Set-ID RL-Set-ID, received-total-wide-band-power Received-total-wide-band-power-Value, DiversityIndication-RL-SetupFailureFDD, diversityIndication not-Used-dSCH-InformationResponseList OPTIONAL, not-Used-tFCI2-BearerInformationResponse -NULLTFC12-BearerInformationResponse-OPTIONAL, There shall be only one TFCI2 bearer per Node B Communication Context. sSDT-SupportIndicator SSDT-SupportIndicator, iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional }| ID id-E-DCH-RL-Set-ID CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }| ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }| ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional },

```
. . .
}
DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining
                                                Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                                NonCombiningOrFirstRL-RL-SetupFailureFDD
}
Combining-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE
    dCH-InformationResponse
                                                DCH-InformationResponse,
    iE-Extensions
                                                    ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } }
    OPTIONAL,
    . . .
}
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH InformationRespList RL SetupFailureFDD ::= ProtocollE Single Container {{ DSCH InformationRespListIEs RL SetupFailureFDD }}
DSCH InformationRespListIEs RL SetupFailureFDD NBAP PROTOCOL IES ::= {
    { ID id DSCH InformationResponse CRITICALITY ignore TYPE DSCH InformationResponse PRESENCE mandatory }
}
UNCHANGED TEXT IS REMOVED
```

- RADIO LINK RECONFIGURATION PREPARE FDD			
_ _ ***********************************	****		
adioLinkReconfigurationPrepareFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container	{{RadioLinkReconfigurat	tionDrenareEDD-IFs}	
		<pre>gurationPrepareFDD-Extensions}}</pre> OPTIONA	L,
···			
adioLinkReconfigurationPrepareFDD-IEs NBAP-PROTO { ID id-NodeB-CommunicationContextID	e e	Y reject TYPE NodeB-CommunicationContextID	PRESENCE mandatory
{ ID id-UL-DPCH-Information-RL-ReconfPrepFDD		Y reject TYPE NodeB-CommunicationContextID Y reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD	PRESENCE mandatory PRESENCE optional
{ ID id-DL-DPCH-Information-RL-ReconfPrepFDD { ID id-DL-DPCH-Information-RL-ReconfPrepFDD		Y reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD	-
{ ID id-FDD-DCHs-to-Modify		Y reject TYPE FDD-DCHs-to-Modify	PRESENCE optional
{ ID id-DCHs-to-Add-FDD		Y reject TYPE DCH-FDD-Information	PRESENCE optional
{ ID id-DCH-DeleteList-RL-ReconfPrepFDD		Y reject TYPE DCH-DeleteList-RL-ReconfPrepFDD	PRESENCE optional
ID id DSCH ModifyList RL ReconfPrepFDD		Y reject TYPE DSCH ModifyList RL ReconfPrepFDD	PRESENCE optional
ID id-DSCHs-to-Add-FDD	CRITICALIT	Y reject TYPE DSCH FDD Information	
	CRITICALIT	Y reject TYPE DSCH DeleteList RL ReconfPrepFDD	- PRESENCE optional
	confPrepFDD CRITICALIT	<u>Y reject TYPE TFCI2-BearerSpecificInformation-RL-Re</u>	econfPrepFDD
PRESENCE optional }			
{ ID id-RL-InformationList-RL-ReconfPrepFDD		Y reject TYPE RL-InformationList-RL-ReconfPrepFDD	PRESENCE optional
	cormation ——CRITICALIT	Y reject TYPE Transmission-Gap-Pattern-Sequence-In:	formation
<pre>{ ID id-Transmission-Gap-Pattern-Sequence-Inf PRESENCE optional },</pre>	cormation ——CRITICALIT	Y reject TYPE Transmission-Gap-Pattern-Sequence-In:	formation
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	ormation ——CRITICALIT	Y reject TYPE Transmission-Gap-Pattern-Sequence-In:	formation
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PRESENCE optional }, adioLinkReconfigurationPrepareFDD-Extensions NBA [ID id DSCH FDD Common Information { ID id-SignallingBearerRequestIndicator { ID id-HSDSCH-FDD-Information { ID id-HSDSCH-Information-to-Modify { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Delete { ID id-HSDSCH-RNTI] The IE shall be present if HS-PDSCH RL ID { ID id-HSPDSCH-RL-ID { ID id-E-DPCH-Information-RL-ReconfPrepFDD { ID id-E-DCH-FDD-Information { ID id-E-DCH-FDD-Information { ID id-E-DCH-FDD-Information-to-Modify	AP-PROTOCOL-EXTENSION ::= CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject IE is present. CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject	<pre>{ EXTENSION DSCH FDD Common Information EXTENSION SignallingBearerRequestIndicator EXTENSION HSDSCH-FDD-Information EXTENSION HSDSCH-Information-to-Modify EXTENSION HSDSCH-MACdFlows-Information EXTENSION HSDSCH-MACdFlows-to-Delete EXTENSION HSDSCH-RNTI EXTENSION RL-ID EXTENSION RL-ID EXTENSION E-DPCH-Information-RL-ReconfPrepFDD EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information-to-Modify</pre>	PRESENCE optional PRESENCE optional PRESENCE optional PRESENCE optional PRESENCE optional PRESENCE optional PRESENCE conditio PRESENCE optional PRESENCE optional PRESENCE optional PRESENCE optional
<pre>PRESENCE optional }, adioLinkReconfigurationPrepareFDD-Extensions NB/ { ID id DSCH FDD Common Information { ID id-SignallingBearerRequestIndicator { ID id-HSDSCH-FDD-Information { ID id-HSDSCH-Information-to-Modify { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Delete { ID id-HSDSCH-RNTI The IE shall be present if HS-PDSCH RL ID { ID id-HSDSCH-RL-ID { ID id-HSPDSCH-RL-ID { ID id-E-DPCH-Information-RL-ReconfPrepFDD { ID id-E-DCH-FDD-Information { ID id-E-DCH-FDD-Information { ID id-E-DCH-FDD-Information-to-Modify { ID id-E-DCH-MACdFlows-to-Add</pre>	AP-PROTOCOL-EXTENSION ::= CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject IE is present. CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject CRITICALITY reject	<pre>{ EXTENSION DSCH FDD Common Information EXTENSION SignallingBearerRequestIndicator EXTENSION HSDSCH-FDD-Information EXTENSION HSDSCH-Information-to-Modify EXTENSION HSDSCH-MACdFlows-Information EXTENSION HSDSCH-MACdFlows-to-Delete EXTENSION HSDSCH-RNTI EXTENSION RL-ID EXTENSION E-DPCH-Information-RL-ReconfPrepFDD EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information-to-Modify EXTENSION E-DCH-MACdFlows-Information</pre>	PRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEconditioPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptionalPRESENCEoptional
<pre>PRESENCE optional }, adioLinkReconfigurationPrepareFDD-Extensions NBA { ID id DSCH FDD Common Information { ID id-SignallingBearerRequestIndicator { ID id-HSDSCH-FDD-Information - { ID id-HSDSCH-Information-to-Modify { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Delete { ID id-HSDSCH-RNTI The IE shall be present if HS-PDSCH RL ID { ID id-HSPDSCH-RL-ID { ID id-HSPDSCH-RL-ID { ID id-E-DPCH-Information-RL-ReconfPrepFDD { ID id-E-DCH-FDD-Information { ID id-E-DCH-FDD-Information-to-Modify { ID id-E-DCH-MACdFlows-to-Add { ID id-E-DCH-MACdFlows-to-Delete</pre>	AP-PROTOCOL-EXTENSION ::= CRITICALITY ignore CRITICALITY reject CRITICALITY reject	<pre>{ EXTENSION DSCH FDD Common Information EXTENSION SignallingBearerRequestIndicator EXTENSION HSDSCH-FDD-Information EXTENSION HSDSCH-Information-to-Modify EXTENSION HSDSCH-MACdFlows-Information EXTENSION HSDSCH-MACdFlows-to-Delete EXTENSION RL-ID EXTENSION RL-ID EXTENSION E-DCH-Information-RL-ReconfPrepFDD EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION EXTENSION E-DCH-MACdFlows-Information EXTENSION EXTENSION E-DCH-MACdFlows-Information EXTENSION EXTENSION</pre>	PRESENCE optional PRESENCE optional
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<pre>PRESENCE optional }, adioLinkReconfigurationPrepareFDD-Extensions NBA [ID id DSCH FDD Common Information { ID id-SignallingBearerRequestIndicator { ID id-HSDSCH-FDD-Information-to-Modify { ID id-HSDSCH-Information-to-Modify { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Delete { ID id-HSDSCH-RNTI The IE shall be present if HS-PDSCH RL ID { ID id-HSDSCH-RL-ID { ID id-E-DCH-RL-ID { ID id-E-DCH-Information-RL-ReconfPrepFDD { ID id-E-DCH-FDD-Information-to-Modify { ID id-E-DCH-MACdFlows-to-Add { ID id-E-DCH-MACdFlows-to-Add { ID id-E-DCH-MACdFlows-to-Delete { ID id-E-DCH-MACdFlows-to-Delete { ID id-F-DCH-Information-RL-ReconfPrepFDD { ID id-F-DCH-Information-RL-ReconfPrepFDD} { ID id-F-DCH-Information-RL-ReconfPrepFDD}} { ID id-F-DCH-Information-RL-ReconfPrepFDD}} { ID id-F-DCH-Information-RL-ReconfPrepFDD}} { ID Id-F-DCH-Information-RL-ReconfPrepFDD}} { ID Id-F-DCH-Information-RL-ReconfPrepFDD}} { ID Id-F-DCH-Inform</pre>	AP-PROTOCOL-EXTENSION ::= CRITICALITY reject CRITICALITY reject	<pre>{ EXTENSION DSCH FDD Common Information EXTENSION SignallingBearerRequestIndicator EXTENSION HSDSCH-FDD-Information EXTENSION HSDSCH-Information-to-Modify EXTENSION HSDSCH-MACdFlows-Information EXTENSION HSDSCH-MACdFlows-to-Delete EXTENSION RL-ID EXTENSION RL-ID EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION Serving-E-DCH-RL-ID </pre>	PRESENCE optional PRESENCE optional
<pre>PRESENCE optional }, adioLinkReconfigurationPrepareFDD-Extensions NBA { ID id DSCH FDD Common Information [ID id-SignallingBearerRequestIndicator [ID id-HSDSCH-FDD-Information [ID id-HSDSCH-Information-to-Modify [ID id-HSDSCH-Information-to-Modify [ID id-HSDSCH-MACdFlows-to-Add [ID id-HSDSCH-MACdFlows-to-Delete [ID id-HSDSCH-MACdFlows-to-Delete [ID id-HSDSCH-RNTI The IE shall be present if HS-PDSCH RL ID [ID id-HSPDSCH-RL-ID [ID id-E-DCH-Information-RL-ReconfPrepFDD [ID id-E-DCH-FDD-Information [ID id-E-DCH-FDD-Information-to-Modify [ID id-E-DCH-MACdFlows-to-Add [ID id-E-DCH-MACdFlows-to-Delete [ID id-Serving-E-DCH-RL-ID [ID id-F-DPCH-Information-RL-ReconfPrepFDD </pre>	AP-PROTOCOL-EXTENSION ::= CRITICALITY reject CRITICALITY reject	<pre>{ EXTENSION DSCH FDD Common Information EXTENSION SignallingBearerRequestIndicator EXTENSION HSDSCH-FDD-Information EXTENSION HSDSCH-Information-to-Modify EXTENSION HSDSCH-MACdFlows-Information EXTENSION HSDSCH-MACdFlows-to-Delete EXTENSION RL-ID EXTENSION RL-ID EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION Serving-E-DCH-RL-ID </pre>	PRESENCE optional PRESENCE optional
<pre>PRESENCE optional }, adioLinkReconfigurationPrepareFDD-Extensions NBA { ID id DSCH FDD Common Information { ID id-SignallingBearerRequestIndicator { ID id-HSDSCH-FDD-Information { ID id-HSDSCH-FDD-Information-to-Modify { ID id-HSDSCH-MACdFlows-to-Add { ID id-HSDSCH-MACdFlows-to-Delete { ID id-HSDSCH-RNTI The IE shall be present if HS-PDSCH RL ID { ID id-HSDSCH-RL-ID { ID id-HSPDSCH-RL-ID { ID id-E-DPCH-Information-RL-ReconfPrepFDD { ID id-E-DCH-FDD-Information { ID id-E-DCH-MACdFlows-to-Add { ID id-E-DCH-MACdFlows-to-Add { ID id-E-DCH-MACdFlows-to-Delete { ID id-E-DCH-MACdFlows-to-Delete { ID id-Serving-E-DCH-RL-ID { ID id-F-DPCH-Information-RL-ReconfPrepFDD } }</pre>	AP-PROTOCOL-EXTENSION ::= CRITICALITY reject CRITICALITY reject	<pre>{ EXTENSION DSCH FDD Common Information EXTENSION SignallingBearerRequestIndicator EXTENSION HSDSCH-FDD-Information EXTENSION HSDSCH-Information-to-Modify EXTENSION HSDSCH-MACdFlows-Information EXTENSION HSDSCH-MACdFlows-to-Delete EXTENSION RL-ID EXTENSION RL-ID EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-FDD-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-Information EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION E-DCH-MACdFlows-to-Delete EXTENSION Serving-E-DCH-RL-ID </pre>	PRESENCE optional PRESENCE optional

ul-SIR-Target	UL-SIR	OPTIONAL,	
minUL-ChannelisationCodeLength	MinUL-ChannelisationCodeLength	OPTIONAL,	
maxNrOfUL-DPDCHs	MaxNrOfUL-DPDCHs	OPTIONAL,	
This IE shall be present if minUL-Ch			
ul-PunctureLimit tFCS	PunctureLimit TFCS	OPTIONAL, OPTIONAL,	
ul-DPCCH-SlotFormat	UL-DPCCH-SlotFormat	OPTIONAL,	
diversityMode	DiversityMode	OPTIONAL,	
sSDT-CellIDLength	SSDT-CellID-Length	OPTIONAL,	
s-FieldLength	S-FieldLength	OPTIONAL,	
iE-Extensions	-	-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	,
}			
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs	NBAP-PROTOCOL-EXTENSION ::= {		
{ ID id-UL-DPDCH-Indicator-For-E-DCH-Op	eration CRITICALITY reject EXTENSION UL-	DPDCH-Indicator-For-E-DCH-Operation PRESENCE condit	cional
},			
The IE shall be present if <i>E-DPCH I</i>	<i>formation</i> IE is present		
····			
}			
DL-DPCH-Information-RL-ReconfPrepFDD ::= SE	OUENCE {		
tFCS	TFCS	OPTIONAL,	
dl-DPCH-SlotFormat	DL-DPCH-SlotFormat	OPTIONAL,	
tFCI-SignallingMode	TFCI-SignallingMode	OPTIONAL,	
tFCI-Presence	TFCI-Presence	OPTIONAL,	
	DOU Clat Desmat TD is set to show of the set	$1 \dots n = 10 \dots 10$	
This IE shall be present if the DL D	-		
multiplexingPosition	MultiplexingPosition	OPTIONAL,	
multiplexingPosition not-Used-pDSCH-CodeMapping	MultiplexingPosition NULLPDSCH-CodeMapping	OPTIONAL,OPTIONAL,	
multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u>	OPTIONAL,OPTIONAL,OPTIONAL,	
multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL-ID</u> LimitedPowerIncrease	OPTIONAL, OPTIONAL, OPTIONAL,	
multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL-ID</u> LimitedPowerIncrease	OPTIONAL,OPTIONAL,OPTIONAL,	,
multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL-ID</u> LimitedPowerIncrease	OPTIONAL, OPTIONAL, OPTIONAL,	,
multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL-ID</u> LimitedPowerIncrease	OPTIONAL, OPTIONAL, OPTIONAL,	,
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL NBAP-PROTOCOL-EXTENSION ::= {	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs}</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL NBAP-PROTOCOL-EXTENSION ::= {	OPTIONAL, OPTIONAL, OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-Rec },</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL NBAP-PROTOCOL-EXTENSION ::= {	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs}</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL NBAP-PROTOCOL-EXTENSION ::= {	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-Rec },</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL NBAP-PROTOCOL-EXTENSION ::= {	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-Rec },</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { S confPrepFDD CRITICALITY reject EXTENSION	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD } } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { S confPrepFDD CRITICALITY reject EXTENSION	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { econfPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize,	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD } } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { econfPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus,	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE opt	cional
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD }, } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus iE-Extensions</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { econfPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus,	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,	cional
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD } } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { econfPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus,	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE opt	cional
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD }, } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus iE-Extensions</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL S NBAP-PROTOCOL-EXTENSION ::= { econfPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus,	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE opt	cional
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD }, } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus iE-Extensions</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL s NBAP-PROTOCOL-EXTENSION ::= { confPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus, ProtocolExtensionContainer { { DL-DPCH-Po	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE opt	cional
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD } } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus iE-Extensions }</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL s NBAP-PROTOCOL-EXTENSION ::= { confPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus, ProtocolExtensionContainer { { DL-DPCH-Po	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE opt	cional
<pre>multiplexingPosition not-Used-pDSCH-CodeMapping not-Used-pDSCH-RL-ID limitedPowerIncrease iE-Extensions } DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD } } DL-DPCH-Power-Information-RL-ReconfPrepFDD powerOffsetInformation fdd-TPC-DownlinkStepSize innerLoopDLPCStatus iE-Extensions } DL-DPCH-Power-Information-RL-ReconfPrepFDD- }</pre>	MultiplexingPosition <u>NULLPDSCH-CodeMapping</u> <u>NULLRL ID</u> LimitedPowerIncrease ProtocolExtensionContainer { { DL s NBAP-PROTOCOL-EXTENSION ::= { confPrepFDD CRITICALITY reject EXTENSION ::= SEQUENCE { PowerOffsetInformation-RL-ReconfPrepFDD, FDD-TPC-DownlinkStepSize, InnerLoopDLPCStatus, ProtocolExtensionContainer { { DL-DPCH-Po	OPTIONAL, OPTIONAL, OPTIONAL, -DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE opt	cional

PowerOffsetInformation-RL-ReconfPrepFDD ::=	SEQUENCE {		
pO1-ForTFCI-Bits	PowerOffset,		
pO2-ForTPC-Bits	PowerOffset,		
pO3-ForPilotBits	PowerOffset,		
iE-Extensions	ProtocolExtensionContain	er { { PowerOffsetInformation-RL-Reconf	<pre>PrepFDD-ExtIEs} } OPTIONAL,</pre>
}			
PowerOffsetInformation-RL-ReconfPrepFDD-Ext	IES NBAP-PROTOCOL-EXTENSI	ON ::= {	
}			
DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENC	E (SIZE (1maxNrOfDCHs))	OF DCH-DeleteItem-RL-ReconfPrepFDD	
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENC	•		
dCH-ID	DCH-ID,		
iE-Extensions	ProtocolExtensio	nContainer { {	PrepFDD-ExtIEs} } OPTIONAL,
}			
, DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBA		1	
	Indided Extendion	l	
}			
)) of pustorely divide destriction [[pdd	
DSCH ModifyList RL ReconfPrepFDD ::= SEQUEN	CE (SIZE (I MaxNFOIDSCHS)) OF Prococorre single concarner ((DSC	H-MODILYLEMIE KL-RECONFFREPEDD }}
DSCH ModifyItemIE RL ReconfPrepFDD NBAP PRO	C C	ct TYPE DSCH-ModifyItem-RL-Reco	nfPrepFDD PRESENCE mandatory}
DSCH ModifyItem RL ReconfPrepFDD ::= SEQUEN	CE {		
	DSCH-ID,		
dl TransportFormatSet	TransportFormatS	et OPTIONAL,	
		ionPriority OPTIONAL,	
	FrameHandlingPri	A set of the set of	
	TOAWS	OPTIONAL,	
- toAWE	TOAWE	OPTIONAL,	
transportBearerRequestIndicator	TransportBearerR	In The second s second second se second second sec second second sec	
	ProtocolExtensio	nContainer {	fPrepFDD ExtIEs} } OPTIONAL,
····			
+			
DSCH ModifyItem RL ReconfPrepFDD ExtIEs NB.	AP-PROTOCOL-EXTENSION ::=	-{	
	CRITICALITY ignore	EXTENSION BindingID	PRESENCE optional }
	CRITICALITY ignore	EXTENSION TransportLayerAddress	PRESENCE optional },
			-
+			
DSCH DeleteList RL ReconfPrepFDD ::= SEQUEN	CE (SIZE (1maxNrOfDSCHs)) OF ProtocolIE-Single-Container {{DSC	H-DeleteItemIE-RL-ReconfPrepFDD-}}
			··· ··· ··· ··· ··· ··· ··· ··· ··· ··
DSCH-DeleteItemIE-RL-ReconfPrepFDD NBAP-PRO	FOCOL-IES ::= {		
<pre>{ ID id-DSCH-DeleteItem-RL-ReconfPres</pre>		ct TYPE DSCH-DeleteItem-RL-Reco	nfPrepFDD PRESENCE mandatory}
T ,			

	DSCH-I	- /				
iE-Extensions		OIExtensionContai	ner { { DSCI	I-DeleteItem-RL-ReconfPre	pFDD-ExtIEs} }	OPTIONAL,
						
		,				
H-DeleteItem-RL-ReconfPrepFDD-ExtIE	s NBAP PROTOCOL EXI	'ENSION ::= {				
•••						
12-BearerSpecificInformation-RL-Rec						
-	y TFCI2 RL ReconfPre	PFDD,				
-delete NULL						
OrModify-TFCI2-RL-ReconfPrepFDD ::=	~ (
toAWS	- TOAWS,					
toAWE	TOAWE,					
-iE-Extensions		Container { { AddU	rModify-TFC.	12 RL ReconfPrepFDD ExtIE	s} } OPTIONAL,	
····						
OrModify-TFCI2-RL-ReconfPrepFDD-Ext						
- { ID id TFCI2BearerRequestIndicato		reject		- TFCI2BearerRequestIndic		<pre>>ptional }</pre>
{ ID id bindingID	CRITICALITY	ignore	EXTENSION	BindingID	PRESENCE	
{ ID id transportlayeraddress	CRITICALITY			TransportLayerAddress	PRESENCE	-
InformationList-RL-ReconfPrepFDD :::	= SEQUENCE (SIZE (1.	.maxNrOfRLs)) OF 1				optiona: ReconfPrepP
InformationList-RL-ReconfPrepFDD :::	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES ::	.maxNrOfRLs)) OF :	ProtocolIE-8	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD	.maxNrOfRLs)) OF 1				ReconfPrepF
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD I	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD	.maxNrOfRLs)) OF :	ProtocolIE-8	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD	.maxNrOfRLs)) OF :	ProtocolIE-8	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R confPrepFDD PRESENCE mandate	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory}	.maxNrOfRLs)) OF :	ProtocolIE-8	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory}	.maxNrOfRLs)) OF : = { CRITICALITY	ProtocolIE-8	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R confPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE { RL-ID,	.maxNrOfRLs)) OF : = { CRITICALITY	ProtocolIE-8	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD X { ID id-RL-InformationItem-RL-Re onfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::: rL-ID	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE { RL-ID,	<pre>.maxNrOfRLs)) OF : = { CRITICALITY leInformation</pre>	ProtocolIE-S reject	Single-Container {{ RL-In	formationItemIE-RL-I	ReconfPrep
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD X { ID id-RL-InformationItem-RL-Re onfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::: rL-ID dl-CodeInformation	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE { RL-ID, FDD-DL-Cod	<pre>.maxNrOfRLs)) OF : = { CRITICALITY leInformation rer</pre>	ProtocolIE-S reject	Single-Container {{ RL-In: TYPE	formationItemIE-RL-I	ReconfPrep
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-Re onfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::: rL-ID dl-CodeInformation maxDL-Power	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE { RL-ID, FDD-DL-Cod DL-Pow DL-Pow	<pre>.maxNrOfRLs)) OF : = { CRITICALITY leInformation rer</pre>	ProtocolIE-S reject	Single-Container {{ RL-In: TYPE OPTIONAL,	formationItemIE-RL-I	ReconfPrep
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R- onfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD :: rL-ID dl-CodeInformation maxDL-Power minDL-Power	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE { RL-ID, FDD-DL-Cod DL-Pow DL-Pow SSDT-I	<pre>.maxNrOfRLs)) OF : = { CRITICALITY leInformation rer rer</pre>	ProtocolIE-S reject	Single-Container {{ RL-In TYPE OPTIONAL, OPTIONAL,	formationItemIE-RL-I	ReconfPrepl
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R onfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY leInformation rer rer indication cell-Identity	ProtocolIE-S reject OPTIONAL,	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,	formationItemIE-RL-I	ReconfPrepF
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-R onfPrepFDD PRESENCE mandato InformationItem-RL-ReconfPrepFDD :: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication sSDT-Cell-Identity	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY leInformation rer rer indication cell-Identity	ProtocolIE-S reject OPTIONAL, tive in the	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,	formationItemIE-RL-I	ReconfPrep
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-Re confPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication sSDT-Cell-Identity The IE shall be present if the state	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY deInformation ver indication cell-Identity .s set to "SSDT Ac hitDiversityIndica"	ProtocolIE-S reject OPTIONAL, tive in the tor	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, UE" OPTIONAL,	formationItemIE-RL-I RL-InformationI	ReconfPrepF
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-ReconfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD :: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication sSDT-Cell-Identity The IE shall be present if the state transmitDiversityIndicator	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY deInformation rer indication sell-Identity s set to "SSDT Ac hitDiversityIndica resent in UL DPCH :	ProtocolIE-S reject OPTIONAL, tive in the tor Information	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, UE" OPTIONAL,	formationItemIE-RL-I RL-InformationI *none"	ReconfPrepI tem-RL-
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-ReconfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD :: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication sSDT-Cell-Identity The IE shall be present if the state transmitDiversityIndicator This IE shall be present if Dive	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY deInformation rer indication sell-Identity s set to "SSDT Ac hitDiversityIndica resent in UL DPCH :	ProtocolIE-S reject OPTIONAL, tive in the tor Information	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, UE" OPTIONAL, IE and it is not set to	formationItemIE-RL-I RL-InformationI *none"	ReconfPrepI tem-RL-
InformationList-RL-ReconfPrepFDD ::: InformationItemIE-RL-ReconfPrepFDD I { ID id-RL-InformationItem-RL-ReconfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD ::: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication sSDT-Cell-Identity The IE shall be present if the is transmitDiversityIndicator This IE shall be present if Dive iE-Extensions	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY deInformation rer indication sell-Identity s set to "SSDT Ac hitDiversityIndica resent in UL DPCH :	ProtocolIE-S reject OPTIONAL, tive in the tor Information	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, UE" OPTIONAL, IE and it is not set to	formationItemIE-RL-I RL-InformationI *none"	ReconfPrepI tem-RL-
InformationList-RL-ReconfPrepFDD :: InformationItemIE-RL-ReconfPrepFDD I ID id-RL-InformationItem-RL-ReconfPrepFDD PRESENCE mandate InformationItem-RL-ReconfPrepFDD :: rL-ID dl-CodeInformation maxDL-Power minDL-Power sSDT-Indication sSDT-Indication sSDT-Cell-Identity The IE shall be present if the is transmitDiversityIndicator This IE shall be present if Dive	= SEQUENCE (SIZE (1. NBAP-PROTOCOL-IES :: econfPrepFDD ory} = SEQUENCE {	.maxNrOfRLs)) OF : = { CRITICALITY deInformation rer indication sell-Identity s set to "SSDT Ac hitDiversityIndica resent in UL DPCH :	ProtocolIE-S reject OPTIONAL, tive in the tor Information	Single-Container {{ RL-In: TYPE OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, UE" OPTIONAL, IE and it is not set to	formationItemIE-RL-I RL-InformationI *none"	ReconfPrepF

-- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE. ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional ID id-DL-DPCH-TimingAdjustment CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional ID id-Oth-Parameter CRITICALITY ignore EXTENSION Oth-Parameter PRESENCE optional } ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE optional } | ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change PRESENCE optional }| { ID id-E-DCH-RL-Indication CRITICALITY reject EXTENSION E-DCH-RL-Indication PRESENCE optional }, . . . E-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE minUL-ChannelisationCodeLengthforE-DCH-FDD MinUL-ChannelisationCodeLengthforE-DCH-FDD OPTIONAL, maxNrOfUL-E-DPDCHs MaxNrOfUL-E-DPDCHs OPTIONAL, -- The IE shall be present if Min UL Channelisation Code Length For E-DCH FDD IE equals 2 ul-PunctureLimit PunctureLimit OPTIONAL, E-TFCS e-TFCS OPTIONAL, e-TTI E-TTI OPTIONAL, iE-Extensions ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL, . . . E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE { powerOffsetInformation PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD, fdd-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize, limitedPowerIncrease LimitedPowerIncrease, innerLoopDLPCStatus InnerLoopDLPCStatus, iE-Extensions ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL, . . . F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE { pO2-ForTPC-Bits PowerOffset, iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL, . . . PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . UNCHANGED TEXT IS REMOVED

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_ _ -- RADIO LINK RECONFIGURATION READY _ _ RadioLinkReconfigurationReady ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationReady-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } | ID id-RL-InformationResponseList-RL-ReconfReady PRESENCE optional }| CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReady ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-TargetCommunicationControlPortID CRITICALITY ignore EXTENSION CommunicationControlPortID PRESENCE optional } { ID id-HSDSCH-FDD-Information-Response PRESENCE optional } CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response -- FDD only { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional } -- TDD only { ID id-E-DCH-FDD-Information-Response PRESENCE optional }, CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response . . . RL-InformationResponseList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-ReconfReady } } RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-ReconfReady CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReady PRESENCE mandatory } RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE { rL-ID RL-ID, dCH-InformationResponseList-RL-ReconfReady DCH-InformationResponseList-RL-ReconfReady OPTIONAL, dSCH-InformationResponseList-RL-ReconfReady DSCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only USCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only uSCH-InformationResponseList-RL-ReconfReady not-Used-tFCI2-BearerInformationResponse -NULLTFC12 BearerInformationResponse OPTIONAL, - FDD only. There shall be only one TFCI2 bearer per Node B Communication Context. ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional }| ID id-E-DCH-RL-Set-ID CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }|

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{ ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }, . . . } DCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }} DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= { { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory } } DSCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }} DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= { { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse PRESENCE mandatory } } USCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-ReconfReady }} USCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= { { ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse PRESENCE mandatory } }

************************************	****	
 BEARER REARRANGEMENT INDICATION		
 *********************************	*****	
<pre>BearerRearrangementIndication ::= SEQUENCE { protocolIEs</pre>	<pre>iner {{BearerRearrangementIndication-IEs}}, nContainer {{BearerRearrangementIndication-Extensions}}</pre>	OPTIONAL,
BearerRearrangementIndication-IEs NBAP-PROTOCOL-IES { ID id-CRNC-CommunicationContextID { ID id-SignallingBearerRequestIndicator { ID id-DCH-RearrangeList-Bearer-RearrangeInd { ID id-DSCH-RearrangeList-Bearer-RearrangeInd TDD only. { ID id-USCH-RearrangeList-Bearer-RearrangeInd	<pre>::= { CRITICALITY ignore TYPE CRNC-CommunicationContextID CRITICALITY ignore TYPE SignallingBearerRequestIndicator CRITICALITY ignore TYPE DCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd</pre>	PRESENCE mandatory } PRESENCE optional } PRESENCE optional } PRESENCE optional }
TDD only. { ID id TFC12BearerRequestIndicator	CRITICALITY ignore TYPE TFCI2BearerRequestIndicator	
<pre>FDD only. { ID id-HSDSCH-RearrangeList-Bearer-RearrangeInd }</pre>		PRESENCE optional },
BearerRearrangementIndication-Extensions NBAP-PROTOC	OL-EXTENSION ::= {	
}		
DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1maxNrOfDCHs)) OF DCH-RearrangeItem-Bearer-RearrangeInd	
	DCH-ID, ProtocolExtensionContainer { {	xtIEs} } OPTIONAL,
, DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-P	DOTOCOL - EVTENCION ··- 1	
 }	KOIOCOL-EAIENSION ··- {	
DSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE	(SIZE (1maxNrOfDSCHs)) OF DSCH-RearrangeItem-Bearer-RearrangeInd	
	{ DSCH-ID, ProtocolExtensionContainer { { DSCH-RearrangeItem-Bearer-RearrangeInd-	<pre>ExtIEs} } OPTIONAL,</pre>
}		
DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-	PROTOCOL-EXTENSION ::= {	
}		

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```
USCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-RearrangeItem-Bearer-RearrangeInd
USCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
    uSCH-ID
                                                     USCH-ID,
    iE-Extensions
                                                     ProtocolExtensionContainer { { USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} }
                                                                                                                                          OPTIONAL,
    . . .
}
USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSDSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-RearrangeItem-Bearer-RearrangeInd
HSDSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
    hsDSCH-MACdFlow-ID
                                                     HSDSCH-MACdFlow-ID,
                                                     ProtocolExtensionContainer { { HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
Information Elements Definitions
9.3.4
       - *
_ _
-- Information Element Definitions
_ _
NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   maxNrOfRLs,
   maxNrOfTFCs,
   maxNrOfErrors,
   maxCTFC,
   maxNrOfTFs,
   maxTTI-count,
   maxRateMatching,
maxHS-PDSCHCodeNrComp-1,
   maxHS-SCCHCodeNrComp-1,
   maxNrOfCellSyncBursts,
-----maxNrOfCodeGroups,
   maxNrOfMeasNCell,
   maxNrOfMeasNCell-1,
   maxNrOfReceptsPerSyncFrame,
   maxNrOfTFCIGroups,
   maxNrOfTFCI1Combs,
   -maxNrOfTFCI2Combs,
  -maxNrOfTFCI2Combs-1,
   maxNrOfSF,
   maxTGPS,
   maxNrOfUSCHs,
   maxNrOfULTSs,
   maxNrOfULTSLCRs,
   maxNrOfDPCHs,
   maxNrOfDPCHLCRs,
   maxNrOfCodes,
   maxNrOfDSCHs,
   maxNrOfDLTSs,
   maxNrOfDLTSLCRs,
   maxNrOfDCHs,
   maxNrOfLevels,
   maxNoGPSItems,
   maxNoSat,
   maxNrOfCellPortionsPerCell,
   maxNrOfCellPortionsPerCell-1,
```

maxNrOfHSSCCHs, maxNrOfHSSCCHCodes. maxNrOfMACdFlows. maxNrOfMACdFlows-1. maxNrOfMACdPDUIndexes. maxNrOfMACdPDUIndexes-1, maxNrOfNIs, maxNrOfPriorityOueues, maxNrOfPriorityQueues-1, maxNrOfHAROProcesses, maxNrOfSyncDLCodesLCR, maxNrOfSyncFramesLCR, maxNrOfContextsOnUeList, maxNrOfPriorityClasses, maxNrOfSatAlmanac-maxNoSat, maxE-AGCH-CodeNrComp-1, maxE-RGCH-E-HICH-CodeNrComp-1, maxNrOfDDIs, maxNrOfE-AGCHs, maxNrOfEDCHMACdFlows. maxNrOfEDCHMACdFlows-1, maxNrOfE-RGCHs-E-HICHs, maxNrofSigSegRGHI-1,

id-MessageStructure, id-ReportCharacteristicsType-OnModification, id-Rx-Timing-Deviation-Value-LCR, id-SFNSFNMeasurementValueInformation, id-SFNSFNMeasurementThresholdInformation, id-TUTRANGPSMeasurementValueInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TypeOfError, id-transportlayeraddress, id-bindingID, id-Angle-Of-Arrival-Value-LCR, id-SyncDLCodeIdThreInfoLCR, id-neighbouringTDDCellMeasurementInformationLCR, id-HS-SICH-Reception-Quality, id-HS-SICH-Reception-Quality-Measurement-Value, id-Initial-DL-Power-TimeslotLCR-InformationItem, id-Maximum-DL-Power-TimeslotLCR-InformationItem, id-Minimum-DL-Power-TimeslotLCR-InformationItem, id-Received-total-wide-band-power-For-CellPortion, id-Received-total-wide-band-power-For-CellPortion-Value, id-Transmitted-Carrier-Power-For-CellPortion, id-Transmitted-Carrier-Power-For-CellPortion-Value, id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission, id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion. id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue, id-HS-DSCHRequiredPowerValueInformation, id-HS-DSCHProvidedBitRateValueInformation, id-HS-DSCHRequiredPowerValue,

id-HS-DSCHRequiredPowerValue-For-Cell-Portion, id-HS-DSCHRequiredPowerValueInformation-For-CellPortion, id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion, id-Best-Cell-Portions-Value, id-Unidirectional-DCH-Indicator, id-SAT-Info-Almanac-ExtItem, id-TnlOos, id-UpPTSInterferenceValue, id-HARO-Preamble-Mode, id-DLTransmissionBranchLoadValue FROM NBAP-Constants Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage

FROM NBAP-CommonDataTypes

ProtocolExtensionContainer{}, ProtocolIE-Single-Container{}, NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers;

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=		=====					
	D						
=		=====					
UNCH	IANGED TEXT IS REMOVED						
DSCE	I-InformationResponse ::= SEQUENCE (S	SIZE (IMAXNFUIDSCHS)) OF	DSCH-Informat	lonkesponseltem			
DSCF	I-InformationResponseItem ::= SEQUENO	} ज़ ⁻					
	dSCH-ID	DSCH-ID,					
	bindingID	BindingID		OPTIONAL,			
	transportLayerAddress	TransportLayer	Address	OPTIONAL,			
	iE-Extensions				ationResponseItem	-ExtIEs } } 01	PTIONAL,
				((,
}							
DSCH	I-InformationResponseItem-ExtIEs NBA	P-PROTOCOL-EXTENSION ::= {					
}							
Dear	I FDD Common Information ::= SEQUENCI	ə (
	~	e de la construcción de la construcción de la construcción de la construcción de la construcción de la constru	TIONAL,				
			PTIONAL,				
	The IE shall be present if the Er			Enhanced DCCU D	7 Active in the U		
		ProtocolExtensionContainer				OPTIONAL,	
		FIOLOCOIEXCENSIONCONCAINED			CIOIL EXCLES	OFIIONAL,	
}	···						
J							
DSCH	I-FDD-Common-Information-ExtIEs NBAP-	-PROTOCOL-EXTENSION ::= {					
	····						
}							
·							
ÐSCH	I-FDD Information ::= SEQUENCE (SIZE	(1maxNrOfDSCHs)) OF DSCH	I-FDD-Informa t	ionItem			
	I-FDD-InformationItem ::= SEQUENCE {						
	dSCH-ID	DSCH-ID,					
	transportFormatSet	TransportFormatSet,					
	-	AllocationRetentionPriorit	. Y ,				
	frameHandlingPriority	FrameHandlingPriority,					
	toAWS	TOAWS,					
	toAWE	TOAWE,				0000000	
	iE-Extensions	ProtocolExtensionContainer	: { { DSCH FDI	-informationiter	m ExtIEs} }	OPTIONAL,	
1	•••						
}							
DSCH	I-FDD-InformationItem-ExtIEs NBAP-PRO	TOCOL-EXTENSION ::= {					
	{ ID id-bindingID	CRITICALITY ignore	EXTENSION	BindingID	PRESENCE		
	{ ID id transportlayeraddress	CRITICALITY ignore	EXTENSION	- TransportLayer/	Address	PRESENCE	- optional },
	· · · ·			± · · · · · · · · · · · · · · · · · · ·			÷ · · · · · · · · · · · · · · · · · · ·
}							

DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem

UNCHANGED TEXT IS REMOVED

```
-- F
UNCHANGED TEXT IS REMOVED
End-Of-Audit-Sequence-Indicator ::= ENUMERATED {
  end-of-audit-sequence,
  not-end-of-audit-sequence
}
EnhancedDSCHPC ::= SEQUENCE {
-enhancedDSCHPCCounter EnhancedDSCHPCCounter,
...
}
EnhancedDSCHPCCounter ::= INTEGER (1..50)
EnhancedDSCHPCIndicator ::= ENUMERATED {
}
EnhancedDSCHPCWnd ::= INTEGER (1..10)
EnhancedDSCHPowerOffset ::= INTEGER (-15..0)
E-RGCH-E-HICH-FDD-Code-Information ::= CHOICE {
  replace
                  E-RGCH-E-HICH-FDD-Code-List,
  remove
                  NULL,
  . . .
}
UNCHANGED TEXT IS REMOVED
```

-- M

UNCHANGED TEXT IS REMOVED

MaximumDL-PowerCapability ::= INTEGER(0..500) -- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

Maximum-Number-of-Retransmissions-For-E-DCH ::= INTEGER (0..15)

```
Maximum-PDSCH-Power ::= SEQUENCE {
OPTIONAL,
maximum PDSCH Power SF8 DL Power
                          OPTIONAL,
OPTIONAL,
-OPTIONAL,
  maximum-PDSCH-Power-SF64 DL-Power
                          OPTIONAL,
maximum-PDSCH-Power-SF128 DL-Power
                         -OPTIONAL,
maximum PDSCH Power SF256 DL Power
                         }
Maximum-PDSCH-Power-Extles NBAP-PROTOCOL-EXTENSION ::= {
}
MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range OdBm .. 50dBm, Step +0.1dB
```

__ D UNCHANGED TEXT IS REMOVED PCP-Length ::= ENUMERATED{ v0, v8 } PDSCH-CodeMapping := SEOUENCE { -signallingMethod-CHOICE { - PDSCH CodeMapping PDSCH CodeMappingInformationList, - code Range tFCI Range -explicit PDSCH-CodeMapping-PDSCH-CodeInformationList, ..., -replace PDSCH CodeMapping ReplacedPDSCH CodeInformationList +- iE-Extensions . . . + PDSCH CodeMapping Extles NBAP PROTOCOL EXTENSION ::= { } PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0...maxCodeNrComp-1) PDSCH CodeMapping SpreadingFactor ::= ENUMERATED { . . . } PDSCH CodeMapping PDSCH CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF -PDSCH CodeMapping SpreadingFactor, -spreadingFactor--multi-CodeInfo-- PDSCH Multi-CodeInfo, start-CodeNumber PDSCH-CodeMapping-CodeNumberComp, stop-CodeNumber ProtocolExtensionContainer { { PDSCH CodeMapping PDSCH CodeMappingInformationList ExtIEs} } OPTIONAL, - iE-Extensions . . . } PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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}	
PDSCH-CodeMapping-DSCH-MappingI	nformationList ::= SEQUENCE (SIZE (1maxNrOfTFCIGroups)) OF
maxTFCI-field2-Value	PDSCH-CodeMapping-MaxTFCI-Field2-Value,
	PDSCH-CodeMapping-SpreadingFactor,
	PDSCH Multi CodeInfo,
	PDSCH CodeMapping CodeNumberComp,
	ProtocolExtensionContainer { { PDSCH CodeMapping DSCH MappingInformationList ExtIEs} } OPTIONAL,
+	
DDCOU CodeManning DCOU ManningT	nformationList Futles NDAD DROTOCOL EVENISION [
	nformationList ExtIEs NBAP PROTOCOL EXTENSION ::= {
$\frac{1}{1}$	
J	
PDSCH-CodeMapping-MaxTFCI-Field	2-Value ::= INTEGER (11023)
PDSCH CodeMapping PDSCH CodeInf	ormationList ::= SEQUENCE (SIZE (1maxNrOfTFCI2Combs)) OF
	PDSCH CodeMapping SpreadingFactor,
	PDSCH-Multi-CodeInfo,
	PDSCH-CodeMapping-CodeNumberComp,
	ProtocolExtensionContainer { { PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs} } OPTIONAL,
····	
+	
	ormationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
····	
}	
PDSCH_CodeMapping_ReplacedPDSCH	<u> CodeInformationList ::= SEQUENCE (SIZE (1maxNrOfTFCI2Combs)) OF</u>
tfci-Field2	TFCS-MaxTFCI-field2-Value,
	PDSCH-CodeMapping-SpreadingFactor,
	PDSCH-Multi-CodeInfo,
	PDSCH CodeMapping CodeNumberComp,
	ProtocolExtensionContainer { { PDSCH CodeMapping ReplacedPDSCH CodeInformationList ExtIEs} } OPTIONAL,
	
}	
PDSCH CodeMapping ReplacedPDSCH	-CodeInformationList ExtIEs NBAP PROTOCOL EXTENSION ::= {
····	
+	
PDSCH-Multi-CodeInfo ::= INTEGE	
PDSCH-MULLI-CODELIILO ··= INIEGE	$\frac{(110)}{(110)}$
PDSCH-ID ::= INTEGER (0255)	
r_{DOCH} ID ··- INIEGER (0255)	
UNCHANGED TEXT IS REMOVED	

```
-- T
UNCHANGED TEXT IS REMOVED
TFCI-Presence ::= ENUMERATED {
   present,
   not-present
}
TFCI-SignallingMode ::= SEQUENCE {
   tFCI-SignallingOption
                           TFCI-SignallingMode-TFCI-SignallingOption,
   not-Used-splitType
                           OPTIONAL.
    - This IE shall be present if the TFCI signalling option is set to "split"
   not-Used-lengthOfTFCI2 ______NULLTFCI_SignallingMode_LengthOfTFCI2
                                                                               OPTIONAL,
                           ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs } }
   iE-Extensions
                                                                                    OPTIONAL,
   . . .
TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)
TFCI-SignallingMode-SplitType ::= ENUMERATED {
-hard,
---logical
+
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
   normal,
   not-Used-split
TFCI2 BearerInformationResponse ::= SEQUENCE {
                                             BindingID,
TransportLayerAddress,
-ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-ExtIEs } } OPTIONAL,
·····
+
TFCI2 BearerInformationResponse Extles NBAP PROTOCOL EXTENSION ::= {
   ...
+
TFCI2BearerRequestIndicator ::= ENUMERATED {newBearerRequested}
TGD
                 ::= INTEGER (0|15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
UNCHANGED TEXT IS REMOVED
```

```
TFCS ::= SEQUENCE {
     tFCSvalues
                                 CHOICE {
         no-Split-in-TFCI
                                    TFCS-TFCSList,
         not-Used-split-in-TFCI
                                           _____
             transportFormatCombination-DCH TFCS-DCHList,
             signallingMethod
                                                -CHOICE {
                tFCI-Range
                                                -TFCS-MapingOnDSCHList,
                -explicit
                                                  +,
                                                ProtocolExtensionContainer { { Split-in-TFCI-ExtIEs } }
             iE-Extensions
                                                                                                          OPTIONAL.
         +,
         -- This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.
         . . .
      ł.
                         ProtocolExtensionContainer { { TFCS-ExtIEs} }
     iE-Extensions
                                                                            OPTIONAL,
     . . .
 Split-in-TFCI-ExtIEs NBAP PROTOCOL EXTENSION ::= {
 }
 TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     . . .
 TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
     SEQUENCE {
         CTFC
                            TFCS-CTFC,
         tFC-Beta
                        TransportFormatCombination-Beta
                                                            OPTIONAL,
         -- The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD - or PCPCH channel].
                             ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
                                                                                        OPTIONAL,
         iE-Extensions
         . . .
 }
 TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     . . .
 }
 TFCS-CTFC ::= CHOICE {
     ctfc2bit
                                         INTEGER (0..3),
     ctfc4bit
                                         INTEGER (0..15),
     ctfc6bit
                                         INTEGER (0..63),
     ctfc8bit
                                         INTEGER (0..255),
     ctfc12bit
                                         INTEGER (0..4095),
     ctfc16bit
                                         INTEGER (0..65535),
     ctfcmaxbit
                                         INTEGER (0..maxCTFC)
 }
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
```

```
_____SEQUENCE {
     CTFC
                    TFCS CTFC
     ....
}
TFCS-DCHList-ExtIEs NBAP-PROTOCOL EXTENSION ::= {
   ...
+
TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
   CTFC-DSCH TFCS-CTFC,
                   ProtocolExtensionContainer { { TFCS MapingOnDSCHList ExtIEs} } OPTIONAL,
   ...
}
TFCS MapingOnDSCHList Extles NBAP PROTOCOL EXTENSION ::= {
  <del>...</del>
+
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrofTFCI2Combs-1)
TFCS DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE (
    - CTFC-DSCH-
                   TFCS-CTFC,
   _____
    <del>....</del>
+
TFCS DSCHList Extles NBAP PROTOCOL EXTENSION ::= {
  ...
}
TransportBearerRequestIndicator ::= ENUMERATED {
   bearerRequested,
  bearerNotRequested,
   . . .
UNCHANGED TEXT IS REMOVED
```

Constant Definitions 9.3.6 -- 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 TMPORTS ProcedureCode, ProtocolIE-ID FROM NBAP-CommonDataTypes; _ _ -- Elementary Procedures _ _ id-audit ProcedureCode ::= 0 id-auditRequired ProcedureCode ::= 1 ProcedureCode ::= 2 id-blockResource id-cellDeletion ProcedureCode ::= 3 id-cellReconfiguration ProcedureCode ::= 4id-cellSetup ProcedureCode ::= 5id-cellSynchronisationInitiation ProcedureCode ::= 45 id-cellSynchronisationReconfiguration ProcedureCode ::= 46 id-cellSynchronisationReporting ProcedureCode ::= 47 ProcedureCode ::= 48id-cellSynchronisationTermination id-cellSynchronisationFailure ProcedureCode ::= 49id-commonMeasurementFailure ProcedureCode ::= 6 id-commonMeasurementInitiation ProcedureCode ::= 7 id-commonMeasurementReport ProcedureCode ::= 8 id-commonMeasurementTermination ProcedureCode ::= 9 id-commonTransportChannelDelete ProcedureCode ::= 10 id-commonTransportChannelReconfigure ProcedureCode ::= 11 id-commonTransportChannelSetup ProcedureCode ::= 12 id-compressedModeCommand ProcedureCode ::= 14 id-dedicatedMeasurementFailure ProcedureCode ::= 16 id-dedicatedMeasurementInitiation ProcedureCode ::= 17 id-dedicatedMeasurementReport ProcedureCode ::= 18 id-dedicatedMeasurementTermination ProcedureCode ::= 19 ProcedureCode ::= 20 id-downlinkPowerControl id-downlinkPowerTimeslotControl ProcedureCode ::= 38

id-errorIndicationForCommon	ProcedureCode ::= 35
id-errorIndicationForDedicated	ProcedureCode ::= 21
id-informationExchangeFailure	ProcedureCode ::= 40
id-informationExchangeInitiation	ProcedureCode ::= 40
id-informationExchangeTermination	ProcedureCode ::= 42
id-informationReporting	ProcedureCode $::= 43$
	ProcedureCode ::= 43 ProcedureCode ::= 50
id-BearerRearrangement	
id-mBMSNotificationUpdate	ProcedureCode ::= 53
id-physicalSharedChannelReconfiguration	ProcedureCode ::= 37
id-privateMessageForCommon	ProcedureCode ::= 36
id-privateMessageForDedicated	ProcedureCode ::= 22
id-radioLinkAddition	ProcedureCode ::= 23
id-radioLinkDeletion	ProcedureCode ::= 24
id-radioLinkFailure	ProcedureCode ::= 25
id-radioLinkPreemption	ProcedureCode ::= 39
id-radioLinkRestoration	ProcedureCode ::= 26
id-radioLinkSetup	ProcedureCode ::= 27
id-reset	ProcedureCode ::= 13
id-resourceStatusIndication	ProcedureCode ::= 28
id-cellSynchronisationAdjustment	ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 31
id-systemInformationUpdate	ProcedureCode ::= 32
id-unblockResource	ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 34
id-radioLinkActivation	ProcedureCode ::= 51
id-radioLinkParameterUpdate	ProcedureCode $::= 52$
······································	
************************************	*****

---- Lists

maxNrOfCodes	INTEGER ::= 10
maxNrOfDLTSs	INTEGER ::= 15
maxNrOfDLTSLCRs	INTEGER ::= 6
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHLCRs	INTEGER ::= 240
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfSCCPCHsinExt	
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	INTEGER ::= 232
maxNrOfCPCHs	INTEGER ::= 232 INTEGER ::= 16
maxNrOfCPCHs	INTEGER ::= 16
maxNrOfCPCHs maxNrOfPCPCHs	INTEGER ::= 16 INTEGER ::= 64

1

maxNrOfFACHs	INTEGER ::= 8
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfPDSCHs	INTEGER ::= 256
maxNrOfHSPDSCHs	INTEGER ::= 16
maxNrOfPUSCHs	INTEGER ::= 256
maxNrOfPDSCHSets	INTEGER ::= 256
maxNrOfPRACHLCRs	INTEGER ::= 8
maxNrOfPUSCHSets	INTEGER ::= 256
maxNrOfSCCPCHLCRs	INTEGER ::= 8
maxNrOfSCCPCHsLCRinExt	INTEGER ::= 88
maxNrOfULTSs	INTEGER ::= 15
maxNrOfULTSLCRs	INTEGER ::= 6
maxNrOfUSCHs	INTEGER ::= 32
maxAPSigNum	INTEGER ::= 16
maxNrOfSlotFormatsPRACH	INTEGER ::= 8
maxCellinNodeB	INTEGER ::= 256
maxCCPinNodeB	INTEGER ::= 256
maxCPCHCell	INTEGER ::= maxNrOfCPCHs
maxCTFC	INTEGER ::= 16777215
maxLocalCellinNodeB	INTEGER ::= maxCellinNodeB
maxNoofLen	INTEGER ::= 7
maxFPACHCell	INTEGER ::= 8
maxRACHCell	INTEGER ::= maxPRACHCell
maxPRACHCell	INTEGER ::= 16
maxPCPCHCell	INTEGER ::= 64
maxSCCPCHCell	INTEGER ::= 32
maxSCCPCHCellinExt	INTEGER ::= 208 maxNrOfSCCPCHs + maxNrOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExtLCR	INTEGER ::= 64 maxNrOfSCCPCHLCRs + maxNrOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCPICHCell	INTEGER ::= 32
maxTTI-count	INTEGER ::= 4
maxIBSEG	INTEGER ::= 16
maxIB	INTEGER ::= 64
maxFACHCell	INTEGER ::= 256 maxNrOfFACHs * maxSCCPCHCell
maxRateMatching	INTEGER := 256
maxCodeNrComp-1	INTEGER ::= 256
maxHS-PDSCHCodeNrComp-1	INTEGER ::= 15
maxHS-SCCHCodeNrComp-1	INTEGER ::= 127
maxNrOfCellSyncBursts	INTEGER ::= 10
maxNrOfCodeGroups	INTEGER ::= 256
maxNrOfReceptsPerSyncFrame	
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxNrOfTFCIGroups	INTEGER ::= 256
maxNrOfTFCI1Combs	INTEGER ::= 512
maxNrOfTFCI2Combs	INTEGER ::= 1024
maxNrOfTFCI2Combs-1	INTEGER ::= 1023
maxNrOfSF	INTEGER ::= 8
maxTGPS	INTEGER ::= 6
maxCommunicationContext maxNrOfLevels	INTEGER ::= 1048575
	INTEGER ::= 256
maxNoSat	INTEGER ::= 16
maxNoGPSItems	INTEGER ::= 8
maxNrOfHSSCCHs	INTEGER ::= 32

<pre>maxNrOfSyncFramesLCR INTEGER ::= 512 maxNrOfSyncDCCadesLCR INTEGER ::= 8 maxNrOfSyncDLCadesLCR INTEGER ::= 8 maxNrOfMACdFlows INTEGER ::= 8 maxNrOfMACdFlows INTEGER ::= 8 maxNrOfMACdPDUIndexes INTEGER ::= 7 maxNrOfMACdPDUIndexes - 1 maxNrOfMACdPDUIndexes INTEGER ::= 7 maxNrOfMACdPDUIndexes - 1 maxNrOfPriorityQueues INTEGER ::= 7 maxNrOfPriorityQueues - 1 maxNrOfPriorityQueues INTEGER ::= 7 maxNrOfPriorityQueues - 1 maxNrOfPriorityQueues INTEGER ::= 7 maxNrOfPriorityQueues INTEGER ::= 7 maxNrOfPriorityQueues INTEGER ::= 7 maxNrOfPriorityQueues INTEGER ::= 8 maxNrOfPriorityQueues INTEGER ::= 8 maxNrOfCellPortionsPerCell INTEGER ::= 64 maxNrOfCellPortionsPerCell INTEGER ::= 16 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 16 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfECHMACdFlows INTEGER ::= 1 FFS maxNrOfECHMACdFlows INTEGER ::= 1 FFS maxNrOfECHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfECHMACdFlows INTEGER ::= 39 </pre>	maxNrOfHSSICHs IN	TEGER ::=	4			
<pre>maxNrOfReceptionsperSyncFrameLCR INTEGER ::= 8 maxNrOfMacdFlows INTEGER ::= 32 maxNrOfMacdFlows INTEGER ::= 4 maxNrOfMacdFlows INTEGER ::= 4 maxNrOfMacdFlows INTEGER ::= 7 maxNrOfMacdFlows - 1 maxNrOfMacdFDUIndexes INTEGER ::= 8 maxNrOfMacdFDUIndexes INTEGER ::= 7 maxNrOfMacdFlows - 1 maxNrOfMacdFDUIndexes INTEGER ::= 7 maxNrOfMacdFlows - 1 maxNrOfPriorityQueues INTEGER ::= 256 maxNrOfPriorityQueues INTEGER ::= 8 maxNrOfContextsOnULList INTEGER ::= 16 maxNrOfContextsOnULList INTEGER ::= 16 maxNrOfPriorityClasses INTEGER ::= 16 maxNrOfPriorityClasses INTEGER ::= 16 maxNrOfPriorityClasses INTEGER ::= 16 maxNrOfPriorityClasses INTEGER ::= 16 maxNrOfDriorityClasses INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 1 FFS maxNrOfDIs INTEGER ::= 39 </pre>						
<pre>maxNrOfSyncDLCodeTLCR INTEGER ::= 32 maxNrOfMACdFlows INTEGER ::= 32 maxNrOfMACdFlows INTEGER ::= 7 maxNrOfMACdFlows-1 INTEGER ::= 7 maxNrOfMACdPDUIndexes INTEGER ::= 7 maxNrOfMACdPDUIndexes INTEGER ::= 7 maxNrOfMACdPDUIndexes INTEGER ::= 7 maxNrOfPriorityQueues-1 INTEGER ::= 7 maxNrOfPriorityQueues-1 INTEGER ::= 8 maxNrOfColtextSONULLIS INTEGER ::= 16 maxNrOfColtextSONULLIS INTEGER ::= 16 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 16 maxNrOfE-GHPriorityClasses INTEGER ::= 16 maxNrOfE-GHPRCOmp-1 INTEGER ::= 16 maxNrOfE-GHPRCOmp-1 INTEGER ::= 16 maxNrOfE-GHPRCOmp-1 INTEGER ::= 16 maxNrOfE-GHPRCOmp-1 INTEGER ::= 16 maxNrOfE-GHPRCOmp-1 INTEGER ::= 16 maxNrOfE-GHPRCOmp-1 INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 8 maxNrOfEDCHMACdFlows INTEGER ::= 8 maxNrOfEDCHMACdFlows INTEGER ::= 39 </pre>	-			::=	8	
<pre>maxNrOfMcddFlows INTEGER ::= 8 maxNrOfMcdFlows-1 INTEGER ::= 7 maxNrOfMcdFlows - 1 maxNrOfMcdPDUIndexes INTEGER ::= 7 maxNrOfMcdPDUIndexes - 1 maxNrOfMcdPDUIndexes-1 INTEGER ::= 7 maxNoOfMcdPDUIndexes - 1 maxNrOfMcdPDUIndexes INTEGER ::= 256 maxNrOfPriorityQueues-1 INTEGER ::= 7 maxNoOfPriorityQueues - 1 maxNrOfHaRQProcesses INTEGER ::= 8 maxNrOfCollPortionsPerCell INTEGER ::= 64 maxNrOfCollPortionsPerCell INTEGER ::= 63 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 16 maxNrofSatAlmanac - maxNoSat maxF-AGCH-CodeNrComp-1 INTEGER ::= 16 maxNrofSatAlmanac - maxNoSat maxPrOfDIs INTEGER ::= 1 FFS maxNrOfEDLMACHFLOWS INTEGER ::= 1 FFS maxNrOfEDLS INTEGER ::= 1 FFS maxNrofEDCHMACHFLOWS INTEGER ::= 7 FFS maxNrofEDCHMACHFLOWS INTEGER ::= 7 FFS maxNrofEDCHMACHFLOWS INTEGER ::= 7 FFS maxNrofEDCHMACHFLOH INTEGER ::= 7 FFS maxNrofEDCH</pre>						
<pre>maxNrOfMACdFlows-1 INTEGER ::= 7 maxNrOfMACdFlows - 1 maxNrOfMACdPDUIndexes INTEGER ::= 8 maxNrOfMACdPDUIndexes-1 INTEGER ::= 256 maxNrOfPriorityQueues INTEGER ::= 8 maxNrOfPriorityQueues-1 INTEGER ::= 8 maxNrOfContextsOnUeList INTEGER ::= 64 maxNrOfCellPortionsPerCell INTEGER ::= 64 maxNrOfCellPortionsPerCell INTEGER ::= 16 maxNrofSatAlmanac - maxNoSat maxRrOfPriorityClasses INTEGER ::= 16 maxNrofSatAlmanac - maxNoSat maxNrOfEstAlmanac-maxNoSat INTEGER ::= 1 FFS maxNrOfEDIs INTEGER ::= 1 FFS maxNrOfEDIS INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 1 FFS maxNrofEDCHMACdFlows INTEGER ::= 39</pre>	maxNrOfHSSCCHCodes	INTEGER	::=	4		
<pre>maxNrofMACdPDUIndexes INTEGER ::= 8 maxNrofMACdPDUIndexes-1 INTEGER ::= 7 maxNoOfMACdPDUIndexes - 1 maxNrofFNIs INTEGER ::= 256 maxNrofPriorityQueues INTEGER ::= 8 maxNrofPriorityQueues-1 INTEGER ::= 7 maxNoOfPriorityQueues - 1 maxNrofContextsOnUEList INTEGER ::= 7 maxNoOfPriorityQueues - 1 maxNrofContextsOnUEList INTEGER ::= 16 maxNrofCollPortionsPerCell INTEGER ::= 63 maxNrofCollPortiorityClasses INTEGER ::= 16 maxNrofSatAlmanac - maxNoSat maxE-AGCH-CodeNrComp-1 INTEGER ::= 1 FFS maxNrofEDCHMACdPlows INTEGER ::= 1 FFS maxNrofEDCHMACdPlows INTEGER ::= 1 FFS maxNrofEDCHMACdPlows INTEGER ::= 1 FFS maxNrofEDCHMACdPlows INTEGER ::= 1 FFS maxNrofEDCHMACdPlows INTEGER ::= 1 FFS maxNrofEDCHMACdPlows INTEGER ::= 39</pre>	maxNrOfMACdFlows	INTEGER	::=	8		
<pre>maxNrOfMACdPDUIndexes-1 INTEGER ::= 7 maxNoOfMACdPDUIndexes - 1 maxNrOfNis INTEGER ::= 256 maxNrOfPriorityQueues INTEGER ::= 8 maxNrOfPriorityQueues-1 INTEGER ::= 7 maxNoOfPriorityQueues - 1 maxNrOfHARQProcesses INTEGER ::= 7 maxNoOfPriorityQueues - 1 maxNrOfContextsOnUeList INTEGER ::= 16 maxNrOfCellPortionsPerCell INTEGER ::= 63 maxNrOfCellPortionsPerCell-1 INTEGER ::= 16 maxNrOfSatAlmanac - maxNoSat INTEGER ::= 16 maxNrOfSatAlmanac - maxNoSat INTEGER ::= 1 FFS maxE-RGCH-CodeNrComp-1 INTEGER ::= 1 FFS maxNrOfDDIs INTEGER ::= 1 FFS maxNrOfEP-AGCHs INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 1 FFS maxNrOfEP-AGCHs INTEGER ::= 1 FFS maxNrOfEP-CHACdFlows INTEGER ::= 1 FFS maxNrOfEP-CHMCdFlows INTEGER ::= 39 **********************************</pre>	maxNrOfMACdFlows-1	INTEGER	::=	7		maxNrOfMACdFlows - 1
maxNrOfNISINTEGER ::= 256maxNrOfPriorityQueuesINTEGER ::= 8maxNrOfPriorityQueues-1INTEGER ::= 8maxNrOfHARQProcessesINTEGER ::= 16maxNrOfContextsOnUEListINTEGER ::= 16maxNrOfCellPortionsPerCellINTEGER ::= 64maxNrOfSatAlmanac-maxNoSatINTEGER ::= 16maxBrOfCh-CodeNrComp-1INTEGER ::= 16maxNrOfEbCHMacdFlowsINTEGER ::= 1maxNrOfEbCHMacdFlowsINTEGER ::= 1maxNrOfEbCHMacdFlowsINTEGER ::= 1maxNrOfEbCHMacdFlowsINTEGER ::= 1maxNrOfEbCHMacdFlows-1INTEGER ::= 1maxNrofEbCHMacdFlows-1INTEGER ::= 39	maxNrOfMACdPDUIndexes	INTEGER	::=	8		
maxNrOfPriorityQueuesINTEGER::= 8maxNrOfPriorityQueues-1INTECER::= 7 maxNoOfPriorityQueues - 1maxNrOfHARQProcessesINTEGER::= 6maxNrOfContextsOnUeListINTEGER::= 16maxNrOfCellPortionsPerCellINTEGER::= 64maxNrOfSatAlmanac-maxNoSatINTEGER::= 16maxNrOfSatAlmanac-maxNoSatINTEGER::= 16maxNrOfE-CodeNrComp-1INTEGER::= 1 FFSmaxNrOfE-CodeNrComp-1INTEGER::= 1 FFSmaxNrOfE-AGCHsINTEGER::= 1 FFSmaxNrOfE-AGCHsINTEGER::= 1 FFSmaxNrOfE-CHMACdFlowsINTEGER::= 1 FFSmaxNrOfE-RGCHa-E-HICHsINTEGER::= 1 FFSmaxNrOfE-RGCHa-E-HICHsINTEGER::= 1 FFSmaxNrOfE-RGCHA-E-HICHsINTEGER::= 1 FFSmaxNrOfE-RGCHA-E-HICHsINTEGER::= 1 FFSmaxNrOfE-RGCHA-E-HICHsINTEGER::= 1 FFSmaxNrofE-RGCHA-E-HICHsINTEGER::= 1 FFSmaxNrofSigSeqRGHI-1INTEGER::= 39 FFS	maxNrOfMACdPDUIndexes-1	INTEGER	::=	7		maxNoOfMACdPDUIndexes - 1
<pre>maxNrOfPriorityQueues-1 INTEGER ::= 7 maxNoOfPriorityQueues - 1 maxNrOfHARQProcesses INTEGER ::= 8 maxNrOfColtextsOnUeList INTEGER ::= 16 maxNrOfCellPortionsPerCell INTEGER ::= 64 maxNrOfCellPortionsPerCell-1 INTEGER ::= 63 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 16 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 16 maxNrOfDolts INTEGER ::= 1 FFS maxNrOfDDIs INTEGER ::= 1 FFS maxNrOfDDIs INTEGER ::= 1 FFS maxNrOfECHMACdFlows INTEGER ::= 1 FFS maxNrOfECHMACdFlows INTEGER ::= 1 FFS maxNrOfECHMACdFlows-1 INTEGER ::= 1 FFS maxNrOfECHMACdFlows-1 INTEGER ::= 1 FFS maxNrOfECHMACdFlows-1 INTEGER ::= 1 FFS maxNrOfECHMACdFlows-1 INTEGER ::= 1 FFS maxNrOfECHMACdFlows-1 INTEGER ::= 1 FFS maxNrOfECHMACdFlows-1 INTEGER ::= 1 FFS maxNrofSigSeqRGHI-1 INTEGER ::= 39 ***********************************</pre>	maxNrOfNIs	INTEGER	::=	256		
maxNrOfHARQProcessesINTEGER::= 8maxNrOfContextsOnUeListINTEGER::= 16maxNrOfCollPortionsPerCellINTEGER::= 63maxNrOfCellPortionsPerCell-1INTEGER::= 63maxNrOfSatAlmanac-maxNoSatINTEGER::= 16maxE-AGCH-CodeNrComp-1INTEGER::= 1INTEGER::= 1 FFSmaxNrOfDLisINTEGER::= 1maxNrOfE-AGCHsINTEGER::= 1maxNrOfE-CdCHACdFlowsINTEGER::= 8maxNrOfE-CdCHACdFlowsINTEGER::= 7maxNrOfE-RGCHs-E-HICHsINTEGER::= 1maxNrOfSigSeqRGHI-1INTEGER::= 39*********************************	maxNrOfPriorityQueues	INTEGER	::=	8		
maxNrOfContextsOnUeListINTEGER ::= 16maxNrOfCellPortionsPerCellINTEGER ::= 63maxNrOfCellPortionsPerCell-1INTEGER ::= 63maxNrOfSatAlmanac-maxNoSatINTEGER ::= 16maxNrOfSatAlmanac-maxNoSatINTEGER ::= 16maxE-AGCH-CodeNrComp-1INTEGER ::= 1maxNrOfE-HICH-CodeNrComp-1INTEGER ::= 1maxNrOfE-AGCHsINTEGER ::= 1maxNrOfE-AGCHsINTEGER ::= 1maxNrOfEDCHMACdFlowsINTEGER ::= 1maxNrOfE-RGCHs-E-HICHsINTEGER ::= 1maxNrOfE-RGCHs-E-HICHsINTEGER ::= 1maxNrofsigSeqRGHI-1INTEGER ::= 39 ***********************************	maxNrOfPriorityQueues-1	INTEGER	::=	7		maxNoOfPriorityQueues - 1
maxNrOfCellPortionsPerCellINTEGER ::= 64maxNrOfCellPortionsPerCell-1INTEGER ::= 63maxNrOfDriorityClassesINTEGER ::= 16maxNrOfSatAlmanac-maxNoSatINTEGER ::= 16maxE-AGCH-CodeNrComp-1INTEGER ::= 11 FFSmaxNrOfDDIsINTEGER ::= 1maxNrOfE-AGCHsINTEGER ::= 1maxNrOfEDCHMACdFlowsINTEGER ::= 1maxNrofE-RGCH=-HICHsINTEGER ::= 7maxNrofE-RGCH=-HICHsINTEGER ::= 1maxNrofE-RGCH=-HICHsINTEGER ::= 39maxNrofE-RGCH=-HICHsINTEGER ::= 39 ***********************************	maxNrOfHARQProcesses	INTEGER	::=	8		
<pre>maxNrOfCellPortionsPerCell-1 INTEGER ::= 63 maxNrOfSatAlmanac-maxNoSat INTEGER ::= 16 maxE-AGCH-CodeNrComp-1 INTEGER ::= 1 FFS maxE-AGCH-E-HICH-CodeNrComp-1 INTEGER ::= 1 FFS maxNrOfDDIS INTEGER ::= 1 FFS maxNrOfE-AGCHs INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 8 FFS maxNrOfEDCHMACdFlows-1 INTEGER ::= 7 FFS maxNrOfE-RGCHs-E-HICHS INTEGER ::= 39 ***********************************</pre>	maxNrOfContextsOnUeList	INTEGER	::=	16		
maxNrOfPriorityClassesINTEGER ::= 16maxNrOfSatAlmanac-maxNoSatINTEGER ::= 16 maxNrofSatAlmanac - maxNoSatmaxE-AGCH-CodeNrComp-1INTEGER ::= 1 FFSmaxE-RGCH=E-HICH-CodeNrComp-1INTEGER ::= 1 FFSmaxNrOfDDIsINTEGER ::= 1 FFSmaxNrOfE-AGCHsINTEGER ::= 1 FFSmaxNrOfEDCHMACdFlowsINTEGER ::= 1 FFSmaxNrOfEDCHMACdFlowsINTEGER ::= 8 FFSmaxNrOfECAGCHs-E-HICHsINTEGER ::= 1 FFSmaxNrofSigSeqRGHI-1INTEGER ::= 1 FFSmaxNrofSigSeqRGHI-1INTEGER ::= 39 FFS iEs iEs ifs id-AICH-InformationProtocolIE-ID ::= 0id-AICH-InformationProtocolIE-ID ::= 1id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 7id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 1	maxNrOfCellPortionsPerCell	INTEGER	::=	64		
maxNrOfSatAlmanac-maxNoSatINTEGER ::= 16 maxNrofSatAlmanac - maxNoSatmaxE-AGCH-CodeNrComp-1INTEGER ::= 1 FFSmaxE-RGCH-E-HICH-CodeNrComp-1INTEGER ::= 1 FFSmaxNrOfDDIsINTEGER ::= 1 FFSmaxNrOfE-AGCHsINTEGER ::= 1 FFSmaxNrOfEDCHMACdFlowsINTEGER ::= 8 FFSmaxNrOfE-RGCHs-E-HICHsINTEGER ::= 7 FFSmaxNrofSigSeqRGHI-1INTEGER ::= 1 FFSmaxNrofSigSeqRGHI-1INTEGER ::= 39 FFSIEs	maxNrOfCellPortionsPerCell-1	INTEGER	::=	63		
maxE-AGCH-CodeNrComp-1INTEGER ::= 1 FFSmaxE-RGCH-E-HICH-CodeNrComp-1INTEGER ::= 1 FFSmaxNrOfDDIsINTEGER ::= 1 FFSmaxNrOfE-AGCHsINTEGER ::= 1 FFSmaxNrOfEDCHMACdFlowsINTEGER ::= 8 FFSmaxNrOfE-RGCHs-E-HICHSINTEGER ::= 1 FFSmaxNrofSigSeqRGHI-1INTEGER ::= 39 FFS ***********************************	maxNrOfPriorityClasses	INTEGER	::=	16		
maxE-RGCH-E-HICH-CodeNrComp-1INTEGER ::= 1FFSmaxNrOfDDIsINTEGER ::= 1FFSmaxNrOfE-AGCHsINTEGER ::= 1FFSmaxNrOfEDCHMACdFlowsINTEGER ::= 8FFSmaxNrOfE-RGCHs-E-HICHSINTEGER ::= 1FFSmaxNrofSigSeqRGHI-1INTEGER ::= 39FFSFFSFFSFFS<	maxNrOfSatAlmanac-maxNoSat	INTEGER	::=	16		maxNrofSatAlmanac - maxNoSat
maxNrOfDDIsINTEGER ::= 1 FFSmaxNrOfE-AGCHsINTEGER ::= 1 FFSmaxNrOfEDCHMACdFlowsINTEGER ::= 8 FFSmaxNrOfEDCHMACdFlows-1INTEGER ::= 7 FFSmaxNrofE-RGCHs-E-HICHSINTEGER ::= 1 FFSmaxNrofSigSeqRGHI-1INTEGER ::= 39 FFS IES ***********************************	maxE-AGCH-CodeNrComp-1	INTEGER	::=	1		FFS
<pre>maxNrOfE-AGCHs INTEGER ::= 1 FFS maxNrOfEDCHMACdFlows INTEGER ::= 8 FFS maxNrOfEDCHMACdFlows-1 INTEGER ::= 7 FFS maxNrOfE-RGCHs-E-HICHS INTEGER ::= 1 FFS maxNrofSigSeqRGHI-1 INTEGER ::= 39 ***********************************</pre>	maxE-RGCH-E-HICH-CodeNrComp-1	INTEGER	::=	1		FFS
<pre>maxNrOfEDCHMACdFlows INTEGER ::= 8 FFS maxNrOfEDCHMACdFlows-1 INTEGER ::= 7 FFS maxNrOfE-RGCHs-E-HICHS INTEGER ::= 1 FFS maxNrofSigSeqRGHI-1 INTEGER ::= 39 ***********************************</pre>	maxNrOfDDIs	INTEGER	::=	1		FFS
<pre>maxNrOfEDCHMACdFlows-1 INTEGER ::= 7 FFS maxNrOfE-RGCHs-E-HICHS INTEGER ::= 1 FFS maxNrofSigSeqRGHI-1 INTEGER ::= 39 ***********************************</pre>	maxNrOfE-AGCHs	INTEGER	::=	1		FFS
<pre>maxNrOfE-RGCHs-E-HICHS INTEGER ::= 1 FFS maxNrofSigSeqRGHI-1 INTEGER ::= 39 ***********************************</pre>	maxNrOfEDCHMACdFlows	INTEGER	::=	8		FFS
<pre>maxNrofSigSeqRGHI-1 INTEGER ::= 39 ***********************************</pre>	maxNrOfEDCHMACdFlows-1	INTEGER	::=	7		FFS
***********************************	maxNrOfE-RGCHs-E-HICHs	INTEGER	::=	1		FFS
IEs id-AICH-Information id-AICH-InformationItem-ResourceStatusInd id-BCH-InformationItem-ResourceStatusInd id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8	maxNrofSigSeqRGHI-1	INTEGER	::=	39		
IEs id-AICH-Information id-AICH-InformationItem-ResourceStatusInd id-BCH-InformationItem-ResourceStatusInd id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8						
IEs *******************************	***************************	* * * * * * * * * * *				
				~ ~ ^ ^	^ ^ ^	*******
id-AICH-InformationProtocolIE-ID ::= 0id-AICH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 1id-BCH-InformationProtocolIE-ID ::= 7id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 8				~ ~ ~ ~		* * * * * * * * * * * * * * *
id-AICH-InformationProtocolIE-ID ::= 0id-AICH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 1id-BCH-InformationProtocolIE-ID ::= 7id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 8						*****
id-AICH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 1id-BCH-InformationProtocolIE-ID ::= 7id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 8	IES 					
id-AICH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 1id-BCH-InformationProtocolIE-ID ::= 7id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 8	IES 	* * * * * * * * * *				
id-BCH-InformationProtocolIE-ID ::= 7id-BCH-InformationItem-ResourceStatusIndProtocolIE-ID ::= 8	IEs ***********	* * * * * * * * * *				****
id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 8	IEs ********************************		* * * *			*************** ProtocolIE-ID ::= 0
	IEs ********************************		* * * *			************** ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1
Id-Been-Modiffeationfilme Protocoffe-iD ··- 9	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-Information	ceStatusIr	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7
id-PlackingDrierityIndigator	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-Information id-BCH-InformationItem-Resource	ceStatusIr	***** nd			<pre>************ ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8</pre>
	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-Information id-BCH-InformationItem-Resourc id-BCH-ModificationTime	ceStatusIr	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9
	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator	ceStatusIr	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10
	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause	ceStatusIr eStatusInd	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13
	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BLockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs	ceStatusIr eStatusInd P	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14
-	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Ccuse id-CCP-InformationItem-AuditRs id-CCP-InformationList-AuditRs	ceStatusIr eStatusInd p p	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 16	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cuse id-CCP-InformationItem-AuditRs id-CCP-InformationList-AuditRs id-CCP-InformationItem-Resource	ceStatusIr eStatusInc p p eStatusInc	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-AuditRs	ceStatusIr eStatusInc p eStatusInc sp	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23	IEs id-AICH-Information id-AICH-InformationItem-Resourd id-BCH-InformationItem-Resourd id-BCH-InformationItem-Resourd id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resourd id-Cell-InformationItem-AuditR id-Cell-InformationItem-AuditR id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-CellParameterID	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25	IEs id-AICH-Information id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25id-CommonMeasurementAccuracyProtocolIE-ID ::= 39	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BLockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 39
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID::=16id-Cell-InformationItem-AuditRspProtocolIE-ID::=17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID::=18id-CellParameterIDProtocolIE-ID::=19id-CellParameterIDProtocolIE-ID::=23id-CFNProtocolIE-ID::=24id-C-IDProtocolIE-ID::=25id-CommonMeasurementAccuracyProtocolIE-ID::=39id-CommonMeasurementObjectType-CM-RprtProtocolIE-ID::=31	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BLockingPriorityIndicator id-CCP-InformationItem-AuditRs id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy id-CommonMeasurementObjectType	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp -CM-Rprt	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 11 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 31
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID::=16id-Cell-InformationItem-AuditRspProtocolIE-ID::=17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID::=18id-Cell-InformationList-AuditRspProtocolIE-ID::=19id-CellParameterIDProtocolIE-ID::=23id-CellParameterIDProtocolIE-ID::=24id-C-IDProtocolIE-ID::=25id-CommonMeasurementAccuracyProtocolIE-ID::=39id-CommonMeasurementObjectType-CM-RprtProtocolIE-ID::=31id-CommonMeasurementObjectType-CM-RqstProtocolIE-ID::=32	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy id-CommonMeasurementObjectType id-CommonMeasurementObjectType	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp -CM-Rprt -CM-Rprt	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 31 ProtocolIE-ID ::= 31
	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause	ceStatusIr eStatusInd	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13
Id-CCP-INIORMALIONDISC-AUGURSP Protocolle-ID ··= 15	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BLockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs	ceStatusIr eStatusInd P	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14
-	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BlockingPriorityIndicator id-CCP-InformationItem-AuditRs id-CCP-InformationList-AuditRs	ceStatusIr eStatusInd p p	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15
-	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BlockingPriorityIndicator id-CCP-InformationItem-AuditRs id-CCP-InformationList-AuditRs	ceStatusIr eStatusInd p p	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 16	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cuse id-CCP-InformationItem-AuditRs id-CCP-InformationList-AuditRs id-CCP-InformationItem-Resource	ceStatusIr eStatusInc p p eStatusInc	***** nd			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-AuditRs	ceStatusIr eStatusInc p eStatusInc sp	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-CQuse id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19	IEs id-AICH-Information id-AICH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23	IEs id-AICH-Information id-AICH-InformationItem-Resourd id-BCH-InformationItem-Resourd id-BCH-InformationItem-Resourd id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resourd id-Cell-InformationItem-AuditR id-Cell-InformationItem-AuditR id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-CellParameterID	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23	IEs id-AICH-Information id-AICH-InformationItem-Resourd id-BCH-InformationItem-Resourd id-BCH-InformationItem-Resourd id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resourd id-Cell-InformationItem-AuditR id-Cell-InformationItem-AuditR id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-Cell-InformationItem-Resourd id-CellParameterID	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25	IEs id-AICH-Information id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25	IEs id-AICH-Information id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID	ceStatusIr eStatusInc p eStatusInc sp ceStatusIr	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 19id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25id-CommonMeasurementAccuracyProtocolIE-ID ::= 39	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-ModificationTime id-BLockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 39
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID::=16id-Cell-InformationItem-AuditRspProtocolIE-ID::=17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID::=18id-CellParameterIDProtocolIE-ID::=19id-CellParameterIDProtocolIE-ID::=23id-CFNProtocolIE-ID::=24id-C-IDProtocolIE-ID::=25id-CommonMeasurementAccuracyProtocolIE-ID::=39id-CommonMeasurementObjectType-CM-RprtProtocolIE-ID::=31	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BLockingPriorityIndicator id-CCP-InformationItem-AuditRs id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy id-CommonMeasurementObjectType	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp -CM-Rprt	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 11 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 31
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 18id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25id-CommonMeasurementAccuracyProtocolIE-ID ::= 39id-CommonMeasurementObjectType-CM-RprtProtocolIE-ID ::= 31	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BLockingPriorityIndicator id-CCP-InformationItem-AuditRs id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy id-CommonMeasurementObjectType	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp -CM-Rprt	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 11 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 31
id-CCP-InformationItem-ResourceStatusIndProtocolIE-ID ::= 16id-Cell-InformationItem-AuditRspProtocolIE-ID ::= 17id-Cell-InformationItem-ResourceStatusIndProtocolIE-ID ::= 18id-Cell-InformationList-AuditRspProtocolIE-ID ::= 18id-CellParameterIDProtocolIE-ID ::= 23id-CFNProtocolIE-ID ::= 24id-C-IDProtocolIE-ID ::= 25id-CommonMeasurementAccuracyProtocolIE-ID ::= 39id-CommonMeasurementObjectType-CM-RprtProtocolIE-ID ::= 31	IEs id-AICH-Information id-AICH-InformationItem-Resour id-BCH-InformationItem-Resource id-BCH-InformationItem-Resource id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRs id-CCP-InformationItem-AuditRs id-CCP-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-Cell-InformationItem-Resource id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy id-CommonMeasurementObjectType id-CommonMeasurementObjectType	ceStatusIn eStatusInc p eStatusInc sp ceStatusIn sp -CM-Rprt -CM-Rprt	***** nd 1			ProtocolIE-ID ::= 0 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 31 ProtocolIE-ID ::= 31

id-CommonMeasurementType	ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID	ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 37
id-CommunicationControlPortID	ProtocolIE-ID ::= 40
id-ConfigurationGenerationID	ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID	ProtocolIE-ID ::= 44
id-CriticalityDiagnostics	ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD	ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD	ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 55
id-DCH-FDD-Information	ProtocolIE-ID ::= 56
id-DCH-TDD-Information	ProtocolIE-ID ::= 57
id-DCH-InformationResponse	ProtocolIE-ID ::= 59
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 62
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 65
id-DCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 135
id-DedicatedMeasurementObjectType-DM-Rprt	ProtocollE-ID ::= 67
id-DedicatedMeasurementObjectType-DM-Rgst	ProtocollE-ID ::= 68
	ProtocollE-ID ::= 69
id-DedicatedMeasurementObjectType-DM-Rsp	
id-DedicatedMeasurementType	ProtocolIE-ID ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 77
id-DL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 83
id-DL-DPCH-TimingAdjustment	ProtocolIE-ID ::= 21
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	ProtocolIE-ID ::= 84
id-DLReferencePower	ProtocolIE-ID ::= 85
id-DLReferencePowerList-DL-PC-Rqst	ProtocolIE-ID ::= 86
id- <u>Unused-ProtocolIE-ID-87</u> DSCH_AddItem_RL_ReconfPrepFDD	ProtocolIE-ID ::= 87
id- <u>Unused-ProtocolIE-ID-89</u> DSCHs-to-Add-FDD	ProtocolIE-ID ::= 89
id- <u>Unused-ProtocolIE-ID-91</u> DSCH-DeleteItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 91
id- <u>Unused-ProtocolIE-ID-93</u> DSCH DeleteList RL ReconfPrepFDD	ProtocolIE-ID ::= 93
id-DSCHs-to-Add-TDD	ProtocolIE-ID ::= 96
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 98
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 100
id-DSCH-InformationResponse	ProtocolIE-ID ::= 105
id-Unused-ProtocolIE-ID-106 DSCH-FDD-Information	ProtocolIE-ID ::= 106
id-DSCH-TDD-Information	ProtocolIE-ID ::= 107
id-Unused-ProtocolIE-ID-108 DSCH_ModifyItem_RL_ReconfPrepFDD	ProtocolIE-ID ::= 108
id-Unused-ProtocolIE-ID-112 DSCH_ModifyList_RL_ReconfPrepFDD	ProtocolIE-ID ::= 112
id-DSCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 136
id-End-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 113
id-FACH-Information	ProtocolIE-ID ::= 116

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id-FACH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 117
id-FACH-ParametersList-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 122
id-IndicationType-ResourceStatusInd	ProtocolIE-ID ::= 123
id-Local-Cell-ID	ProtocolIE-ID ::= 124
id-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 2
id-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 3
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 4
id-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 5
id-Local-Cell-InformationItem-AuditRsp	ProtocolIE-ID ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 127
id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128
id-AdjustmentPeriod	ProtocolIE-ID ::= 129
id-MaxAdjustmentStep	ProtocolIE-ID ::= 130
id-MaximumTransmissionPower	ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 132
id-MeasurementID	ProtocolIE-ID ::= 133
id-MessageStructure	ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID ::= 134
id-NodeB-CommunicationContextID	ProtocolIE-ID ::= 143
id-NeighbouringCellMeasurementInformation	ProtocolIE-ID ::= 455
id-P-CCPCH-Information	ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 145
id-P-CPICH-Information	ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 147
id-P-SCH-Information	ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 157
id-PCH-Information	ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 165
id-PICH-Information	ProtocolIE-ID ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 168
id-PowerAdjustmentType	ProtocolIE-ID ::= 169
id-PRACH-Information	ProtocolIE-ID ::= 170
id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 180
id-PrimaryScramblingCode	ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRgstTDD	ProtocolIE-ID ::= 183
id-SCH-Information-Cell-SetupRgstTDD	ProtocolIE-ID ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 185
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id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRast id-PUSCHSets-DeleteList-PSCH-ReconfRast id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRgstFDD id-RACH-ParameterItem-CTCH-SetupRgstTDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rqst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-AdditionRgstFDD id-RL-informationItem-RL-DeletionRqst id-RL-InformationItem-RL-FailureInd id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-ReconfPrepFDD id-RL-InformationItem-RL-ReconfRgstFDD id-RL-InformationItem-RL-RestoreInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-AdditionRqstFDD id-RL-informationList-RL-DeletionRqst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationList-RL-ReconfRqstFDD id-RL-InformationList-RL-SetupRgstFDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReady id-RL-InformationResponseItem-RL-ReconfRsp id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReady id-RL-InformationResponseList-RL-ReconfRsp id-RL-InformationResponseList-RL-SetupRspFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-ReconfRgstTDD id-RL-Information-RL-ReconfPrepTDD id-RL-Information-RL-SetupRgstTDD id-RL-ReconfigurationFailureItem-RL-ReconfFailure id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rsp id-RL-Set-InformationItem-RL-FailureInd id-RL-Set-InformationItem-RL-RestoreInd id-S-CCPCH-Information id-S-CPICH-Information id-SCH-Information id-S-SCH-Information id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD

ProtocolIE-ID ::= 186

ProtocolIE-ID ::= 187

ProtocolIE-ID ::= 188

ProtocolIE-ID ::= 189

ProtocolIE-ID ::= 190

ProtocolIE-ID ::= 196

ProtocolIE-ID ::= 197

ProtocolIE-ID ::= 198

ProtocolTE-TD := 199

ProtocolIE-ID ::= 200

ProtocolIE-ID ::= 202

ProtocolIE-ID ::= 203

ProtocolIE-ID ::= 204

ProtocolIE-ID ::= 205

ProtocolIE-ID ::= 206

ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 286

ProtocolIE-ID ::= 208

ProtocolIE-ID ::= 209

ProtocolIE-ID ::= 210

ProtocolIE-ID ::= 211

ProtocolIE-ID ::= 212

ProtocolIE-ID ::= 213

ProtocolIE-ID ::= 237 ProtocolIE-ID ::= 214

ProtocolIE-ID ::= 215

ProtocolIE-ID ::= 216

ProtocolIE-ID ::= 217

ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219

ProtocolIE-ID ::= 220

ProtocolIE-ID ::= 221

ProtocolIE-ID ::= 222

ProtocolIE-ID ::= 223

ProtocolIE-ID ::= 224

ProtocolIE-ID ::= 225

ProtocolIE-ID ::= 226

ProtocolIE-ID ::= 227

ProtocolIE-ID ::= 228

ProtocolIE-ID ::= 229

ProtocolIE-ID ::= 230

ProtocolTE-TD ::= 236

ProtocolIE-ID ::= 238

ProtocolIE-ID ::= 240

ProtocolIE-ID ::= 241

ProtocolIE-ID ::= 242

ProtocolIE-ID ::= 247

ProtocolIE-ID ::= 249

ProtocolIE-ID ::= 251

ProtocolIE-ID ::= 253

ProtocolIE-ID ::= 257

ProtocolIE-ID ::= 258

ProtocolIE-ID ::= 259

id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SFN	ProtocolIE-ID ::= 268
id-SignallingBearerRequestIndicator	ProtocolIE-ID ::= 138
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TargetCommunicationControlPortID	ProtocolIE-ID ::= 139
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocolIE-ID ::= 508
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-USCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 141
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailure	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
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id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329	
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330	
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332	
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333	
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334	
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335	
id-CPCH-Information	ProtocolIE-ID ::= 336	
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342	
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343	
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346	
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347	
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348	
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349	
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350	
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 350	
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 352	
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 352	
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355	
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355	
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357	
id-DL-TPC-Pattern01Count	ProtocolIE-ID ::= 357	
id-DPC-Mode	ProtocolIE-ID ::= 450	
id-DPCHConstant	ProtocolIE-ID ::= 359	
id-Drefeonstant id-Unused-ProtocolIE-ID-94 DSCH-FDD-Common-Information	PIOLOCOIIE-ID ··= 359	ProtocolIE-ID ::= 94
		ProtocolIE-ID ::= 110
id- <u>Unused-ProtocolIE-ID-110</u> id-Unused-ProtocolIE-ID-111		ProtocolIE-ID ··= 110 ProtocolIE-ID ··= 111
id-FACH-ParametersList-CTCH-SetupRsp	ProtocolIE-ID ::= 362	Prococorre-iD ··= iii
id-FACH-ParametersList-Cich-SetupRsp id-Limited-power-increase-information-Cell-SetupRqstFDD	ProtocolIE-ID ··= 362 ProtocolIE-ID ··= 369	
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ··= 374	
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 374 ProtocolIE-ID ::= 375	
-	ProtocolIE-ID ··= 375 ProtocolIE-ID ··= 376	
id-PCPCH-Information	ProtocolIE-ID ::= 376 ProtocolIE-ID ::= 380	
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380 ProtocolIE-ID ::= 381	
id-PRACHConstant	ProtocolIE-ID ::= 381	
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD id-PUSCHConstant	ProtocolIE-ID ··= 383 ProtocolIE-ID ··= 384	
	ProtocolIE-ID ··= 384 ProtocolIE-ID ··= 385	
id-RACH-Parameters-CTCH-SetupRsp	Protocolle-ID ··= 385	Dweberelte ID :- 442
id- <u>Unused-ProtocolIE-ID-443</u> SSDT-CellIDforEDSCHPC	Dectoral TE TD 202	ProtocolIE-ID ::= 443
id-Synchronisation-Configuration-Cell-ReconfRqst	ProtocolIE-ID ::= 393	
id-Synchronisation-Configuration-Cell-SetupRqst	ProtocolIE-ID ::= 394	
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 395	
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 396	
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 397	
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 398	
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 399	
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 400	
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401	
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 402	
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403	
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405	
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406	
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407	
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408	
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 409	

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id-CommunicationContextInfoItem-Reset	ProtocolIE-ID ::= 412	
id-CommunicationControlPortInfoItem-Reset	ProtocolIE-ID ::= 414	
id-ResetIndicator	ProtocolIE-ID ::= 416	
id- <u>Unused-ProtocolIE-ID-417</u> TFCI2-Bearer-Information-RL-SetupRqstFL		ProtocolIE-ID ::= 417
id- <u>Unused-ProtocolIE-ID-418</u> TFCI2-BearerSpecificInformation-RL-Reco	onfPrepFDD	ProtocolIE-ID ::= 418
id- <u>Unused-ProtocolIE-ID-419TFCI2-BearerInformationResponse</u>	-	ProtocolIE-ID ::= 419
id- <u>Unused-ProtocolIE-ID-142</u> TFCI2BearerRequestIndicator	-	ProtocolIE-ID ::= 142
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287	
id-CFNReportingIndicator		ProtocolIE-ID ::= 6
id-SFNReportingIndicator		ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12	
id-TimeslotISCPInfo	ProtocolIE-ID ::= 283	
id-PICH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 167	
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20	
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 46	
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47	
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420	
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421	
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD	ProtocolIE-ID ::= 494	
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 482	
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422	
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 423	
${\tt id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD}$	ProtocolIE-ID ::= 424	
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 425	
${\tt id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD}$	ProtocolIE-ID ::= 426	
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 427	
$\verb"id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD"$	ProtocolIE-ID ::= 428	
id-CellSyncInfo-CellSyncReprtTDD	ProtocolIE-ID ::= 429	
id-CSBTransmissionID	ProtocolIE-ID ::= 430	
id-CSBMeasurementID	ProtocolIE-ID ::= 431	
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432	
id-NCyclesPerSFNperiod	ProtocolIE-ID ::= 433	
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434	
id-SyncFrameNumber	ProtocolIE-ID ::= 437	
id-SynchronisationReportType	ProtocolIE-ID ::= 438	
id-SynchronisationReportCharacteristics	ProtocolIE-ID ::= 439	
$\verb"id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD"$	ProtocolIE-ID ::= 440	
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 119	
id-ReferenceClockAvailability	ProtocolIE-ID ::= 435	
id-ReferenceSFNoffset	ProtocolIE-ID ::= 436	
id-InformationExchangeID	ProtocolIE-ID ::= 444	
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID ::= 445	
id-InformationType	ProtocolIE-ID ::= 446	
id-InformationReportCharacteristics	ProtocolIE-ID ::= 447	
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID ::= 448	
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID ::= 449	
id-IPDLParameter-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 451	
id-IPDLParameter-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 452	
id-IPDLParameter-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 453	
id-IPDLParameter-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 454	
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 74	
id-DwPCH-LCR-Information	ProtocolIE-ID ::= 78	
id-DwPCH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 90	

	id-DwPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 97	
	id-DwPCH-LCR-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 99	
	id-DwPCH-LCR-Information-ResourceStatusInd	ProtocolIE-ID ::= 101	
	id-maxFACH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 154	
	id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 174	
	id-FPACH-LCR-Information	ProtocolIE-ID ::= 290	
	id-FPACH-LCR-Information-AuditRsp	ProtocolIE-ID ::= 292	
	id-FPACH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 22	
	id-FPACH-LCR-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 311	
	id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 312	
	id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 314	
	id-PCCPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 456	
	id-PCH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 457	
	id-PCH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 458	
	id-PICH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 459	
	id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 461	
	id-RL-InformationResponse-LCR-RL-SetupRspTDD	ProtocolIE-ID ::= 463	
	id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 465	
	id-TimeSlot	ProtocolIE-ID ::= 495	
	id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 466	
	id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD	ProtocolIE-ID ::= 467	
	id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD	ProtocolIE-ID ::= 468	
	id-TimeSlotLCR-CM-Rqst	ProtocolIE-ID ::= 469	
	id-UL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 470	
	id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 472	
	id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 473	
	id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 474	
	id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 475	
	id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 477	
	id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 479	
	id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD	ProtocolIE-ID ::= 480	
	id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 481	
	id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID ::= 483	
	id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 485	
	id-UL-SIRTarget	ProtocolIE-ID ::= 510	
	id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 486	
	id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 487	
1	id-Unused-ProtocolIE-ID-26PDSCH-Information-Cell_SetupRgstFDD		ProtocolIE-ID ::= 26
	id-Unused-ProtocolIE-ID-27PDSCH-Information Cell-ReconfRqstFDD	-	ProtocolIE-ID ::= 27
	id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 488	
	id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 489	
	id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 490	
	id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 491	
	id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 492	
	id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 493	
	id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 496	
	id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID ::= 497	
	id-Power-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 498	
	id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 499	
	id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 500	
	id-Power-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 501	
	id-Power-Local-Cell-Group-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 502	
	id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd	ProtocolIE-ID ::= 503	

id-Power-Local-Cell-Group-ID ProtocolIE-ID ::= 504 id-PUSCH-Info-DM-Rost ProtocolIE-ID ::= 505 id-PUSCH-Info-DM-Rsp ProtocolIE-ID ::= 506 id-PUSCH-Info-DM-Rprt ProtocolIE-ID ::= 507 id-InitDL-Power ProtocolIE-ID ::= 509 id-cellSyncBurstRepetitionPeriod ProtocolIE-ID ::= 511 id-ReportCharacteristicsType-OnModification ProtocolIE-ID ::= 512 id-SFNSFNMeasurementValueInformation ProtocolIE-ID ::= 513 id-SFNSFNMeasurementThresholdInformation ProtocolIE-ID ::= 514 id-TUTRANGPSMeasurementValueInformation ProtocolIE-ID ::= 515 id-TUTRANGPSMeasurementThresholdInformation ProtocolIE-ID ::= 516 id-Rx-Timing-Deviation-Value-LCR ProtocolIE-ID ::= 520 id-RL-InformationResponse-LCR-RL-AdditionRspTDD ProtocolIE-ID ::= 51 id-DL-PowerBalancing-Information ProtocolIE-ID ::= 28 id-DL-PowerBalancing-ActivationIndicator ProtocolIE-ID ::= 29 id-DL-PowerBalancing-UpdatedIndicator ProtocolIE-ID ::= 30 ProtocolIE-ID ::= 517 id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD ProtocolIE-ID ::= 518 id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD ProtocolIE-ID ::= 519 id-IPDLParameter-Information-LCR-Cell-SetupRgstTDD ProtocolIE-ID ::= 41 id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD ProtocolTE-TD := 42id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst ProtocolIE-ID ::= 522 id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst ProtocolIE-ID ::= 523 id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst ProtocolIE-ID ::= 524 id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst ProtocolIE-ID ::= 525 id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst ProtocolIE-ID ::= 526 id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ProtocolIE-ID ::= 527 id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ProtocolIE-ID ::= 528 id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ProtocolIE-ID ::= 529 id-bindingID ProtocolIE-ID ::= 102 id-RL-Specific-DCH-Info ProtocolIE-ID ::= 103 id-transportlayeraddress ProtocolIE-ID ::= 104 id-DelayedActivation ProtocolIE-ID ::= 231 id-DelayedActivationList-RL-ActivationCmdFDD ProtocolIE-ID ::= 232 id-DelayedActivationInformation-RL-ActivationCmdFDD ProtocolIE-ID ::= 233 id-DelayedActivationList-RL-ActivationCmdTDD ProtocolIE-ID ::= 234 id-DelayedActivationInformation-RL-ActivationCmdTDD ProtocolIE-ID ::= 235 id-neighbouringTDDCellMeasurementInformationLCR ProtocolIE-ID ::= 58 id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD ProtocolIE-ID ::= 543 id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD ProtocolIE-ID ::= 544 id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD ProtocolIE-ID ::= 545 id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD ProtocolTE-TD := 546id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD ProtocolIE-ID ::= 547 id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD ProtocolIE-ID ::= 548 id-SvncDLCodeIdThreInfoLCR ProtocolIE-ID ::= 549 id-NSubCyclesPerCyclePeriod-CellSyncReconfRgstTDD ProtocolIE-ID ::= 550 id-DwPCH-Power ProtocolIE-ID ::= 551 id-AccumulatedClockupdate-CellSyncReprtTDD ProtocolIE-ID ::= 552 id-Angle-Of-Arrival-Value-LCR ProtocolIE-ID ::= 521 id-HSDSCH-FDD-Information ProtocolIE-ID ::= 530 id-HSDSCH-FDD-Information-Response ProtocolIE-ID ::= 531 id-HSDSCH-Information-to-Modify ProtocolIE-ID ::= 534 id-HSDSCH-RNTT ProtocolIE-ID ::= 535

id-HSDSCH-TDD-Information	ProtocolIE-ID ::= 536
id-HSDSCH-TDD-Information-Response	ProtocolIE-ID ::= 537
id-HSPDSCH-RL-ID	ProtocolIE-ID ::= 541
id-PrimCCPCH-RSCP-DL-PC-RqstTDD	ProtocolIE-ID ::= 542
id-Qth-Parameter	ProtocolIE-ID ::= 64
id-PDSCH-RL-ID	ProtocolIE-ID ::= 66
id-HSDSCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 553
id-UL-Synchronisation-Parameters-LCR	ProtocolIE-ID ::= 554
id-HSDSCH-FDD-Update-Information	ProtocolIE-ID ::= 555
id-HSDSCH-TDD-Update-Information	ProtocolIE-ID ::= 556
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD	ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 563
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 564
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 565
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 566
id-CCTrCH-Maximum-DL-Power-RL-SetupRgstTDD	ProtocolIE-ID ::= 567
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 568
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 569
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 570
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 571
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 572
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 573
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 574
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 575
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 576
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-Reconfrequed	ProtocolIE-ID ::= 577
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD	
	ProtocolIE-ID ::= 578
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 579
id-Initial-DL-Power-TimeslotLCR-InformationItem id-Maximum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 580
	ProtocolIE-ID ::= 581
id-Minimum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 582
id-HS-DSCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 583
id-HS-DSCHRequiredPowerValueInformation	ProtocolIE-ID ::= 585
id-HS-DSCHRequiredPowerValue	ProtocolIE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTran	
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
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-NumberOfReportedCellPortions	ProtocolIE-ID ::= 596
id-CellPortion-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 597
id-CellPortion-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 598
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 599
id-Secondary-CPICH-Information	ProtocolIE-ID ::= 600
id-Received-total-wide-band-power-For-CellPortion	ProtocolIE-ID ::= 601

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id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 602
id-TimingAdjustmentValueLCR	ProtocolIE-ID ::= 603
id-multipleRL-dl-DPCH-InformationList	ProtocolIE-ID ::= 604
id-multipleRL-dl-DPCH-InformationModifyList	ProtocolIE-ID ::= 605
id-multipleRL-ul-DPCH-InformationList	ProtocolIE-ID ::= 606
id-multipleRL-ul-DPCH-InformationModifyList	ProtocolIE-ID ::= 607
id-RL-ID	ProtocolIE-ID ::= 608
id-SAT-Info-Almanac-ExtItem	ProtocolIE-ID ::= 609
id-HSDPA-Capability	ProtocolIE-ID ::= 610
id-HSDSCH-Resources-Information-AuditRsp	ProtocolIE-ID ::= 611
id-HSDSCH-Resources-Information-ResourceStatusInd	ProtocolIE-ID ::= 612
id-HSDSCH-MACdFlows-to-Add	ProtocolIE-ID ::= 613
id-HSDSCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 614
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 615
id-TnlQos	ProtocolIE-ID ::= 616
id-Received-total-wide-band-power-For-CellPortion-Value	ProtocolIE-ID ::= 617
id-Transmitted-Carrier-Power-For-CellPortion	ProtocolIE-ID ::= 618
id-Transmitted-Carrier-Power-For-CellPortion-Value	ProtocolIE-ID ::= 619
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTra	ansmissionCellPortion ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTra	
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 622
id-PrimaryCCPCH-RSCP-Delta	ProtocolIE-ID ::= 623
id-MeasurementRecoveryBehavior	ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator	ProtocolIE-ID ::= 625
id-MeasurementRecoverySupportIndicator	ProtocolIE-ID ::= 626
id-Tstd-indicator	ProtocolIE-ID ::= 627
id-multiple-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 628
id-multiple-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 629
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 630
id-F-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 631
id-F-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 632
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 633
id-Additional-S-CCPCH-Parameters-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 634
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 635
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 636
id-MICH-CFN	ProtocolIE-ID ::= 637
id-MICH-Information-AuditRsp	ProtocolIE-ID ::= 638
id-MICH-Information-ResourceStatusInd	ProtocolIE-ID ::= 639
id-MICH-Parameters-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 640
id-MICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 641
id-MICH-Parameters-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 642
id-MICH-Parameters-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 643
id-Modification-Period	ProtocolIE-ID ::= 644
id-NI-Information-NotifUpdateCmd	ProtocolIE-ID ::= 645
id-S-CCPCH-InformationListExt-AuditRsp	ProtocolIE-ID ::= 646
id-S-CCPCH-InformationListExt-ResourceStatusInd	ProtocolIE-ID ::= 647
id-S-CCPCH-LCR-InformationListExt-AuditRsp	ProtocolIE-ID ::= 648
id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd	ProtocolIE-ID ::= 649
id-HARO-Preamble-Mode	ProtocolIE-ID ::= 650
id-Initial-DL-DPCH-TimingAdjustment	ProtocolIE-ID ::= 651
id-Initial-DL-DPCH-TimingAdjustment-Allowed	ProtocolIE-ID ::= 652
id-DLTransmissionBranchLoadValue	ProtocolIE-ID ::= 653
id-Power-Local-Cell-Group-choice-CM-Rgst	ProtocolIE-ID ::= 654
TA FORCE LOCAL CETT GLOUP CHOICE ON REPE	1100000111 1D ··- 001

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id-Power-Local-Cell-Group-choice-CM-Rsp	ProtocolIE-ID ::= 655
id-Power-Local-Cell-Group-choice-CM-Rprt	ProtocolIE-ID ::= 656
id-HSDPA-CellPortion-InformationItem-PSCH-ReconfRqst	ProtocolIE-ID ::= 658
id-HSDPA-CellPortion-InformationList-PSCH-ReconfRqst	ProtocolIE-ID ::= 659
id-HS-DSCHRequiredPowerValue-For-Cell-Portion	ProtocolIE-ID ::= 660
id-HS-DSCHRequiredPowerValueInformation-For-CellPortion	ProtocolIE-ID ::= 661
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion	ProtocolIE-ID ::= 662
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code	ProtocolIE-ID ::= 663
id-E-AGCH-FDD-Code-Information	ProtocolIE-ID ::= 664
id-E-DCH-Capability	ProtocolIE-ID ::= 665
id-E-DCH-FDD-DL-Control-Channel-Information	ProtocolIE-ID ::= 666
id-E-DCH-FDD-Information	ProtocolIE-ID ::= 667
id-E-DCH-FDD-Information-Response	ProtocolIE-ID ::= 668
id-E-DCH-FDD-Information-to-Modify	ProtocolIE-ID ::= 669
id-E-DCH-MACdFlows-to-Add	ProtocolIE-ID ::= 670
id-E-DCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 671
id-E-DCH-Resources-Information-AuditRsp	ProtocolIE-ID ::= 672
id-E-DCH-Resources-Information-ResourceStatusInd	ProtocolIE-ID ::= 673
id-E-DCH-RL-Indication	ProtocolIE-ID ::= 674
id-E-DCH-RL-Set-ID	ProtocolIE-ID ::= 675
id-E-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 676
id-E-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 677
id-E-RGCH-E-HICH-FDD-Code-Information	ProtocolIE-ID ::= 678
id-Serving-E-DCH-RL-ID	ProtocolIE-ID ::= 679
id-UL-DPDCH-Indicator-For-E-DCH-Operation	ProtocolIE-ID ::= 680
id-E-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 682
-	

END

CHANGE REQUEST											
æ	25.434	CR <mark>03</mark>	۶ <mark>5</mark> ۴	e rev	- ³	€ Curi	rent versi	on:	5.4.0	ж	
For <u>HELP</u> or	using this fo	orm, see bo	ttom of this p	bage or l	look at	the pop	o-up text (over th	ne	nbols.	
Proposed chang	Proposed change affects: UICC apps# ME Radio Access Network X Core Network										
Title:	Feature	<mark>clean-up: R</mark>	emoval of D	SCH (F	DD mo	de)					
Source:	RAN3										
Work item code:	TEI5						Date: ೫	09/05	5/2005		
Category:	<i>F</i> (co <i>A</i> (co <i>B</i> (ac <i>C</i> (fu <i>D</i> (co Detailed ex	rrection) prresponds to Idition of fea nctional mod litorial modifi	<i>lification of fea</i> <i>ication)</i> of the above ca	nture)		Us	se <u>one</u> of t Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	(GSM I (Releas (Releas (Releas	wing rele Phase 2) Se 1996) Se 1997) Se 1998) Se 1999) Se 4) Se 5) Se 6)	eases:	

Reason for change: ೫	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.
Summary of change: ೫	DSCH is removed from the specifications for the FDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.
Consequences if # not approved:	The obsolete DSCH feature will remain in the specifications.



affected:		XTest specificationsXO&M Specifications	34.108, 34.123		
Other comments:	Ħ	In the figure in § 5.1, there is a "[TDD]' hidden prior to the changes in this CR, the "Removal of CPCH" feature CR (x)	It will reappear after the implementation of		

How to create CRs using this form:

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

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

5 I_{ub} Data Transport for Common Transport Channel Data Streams

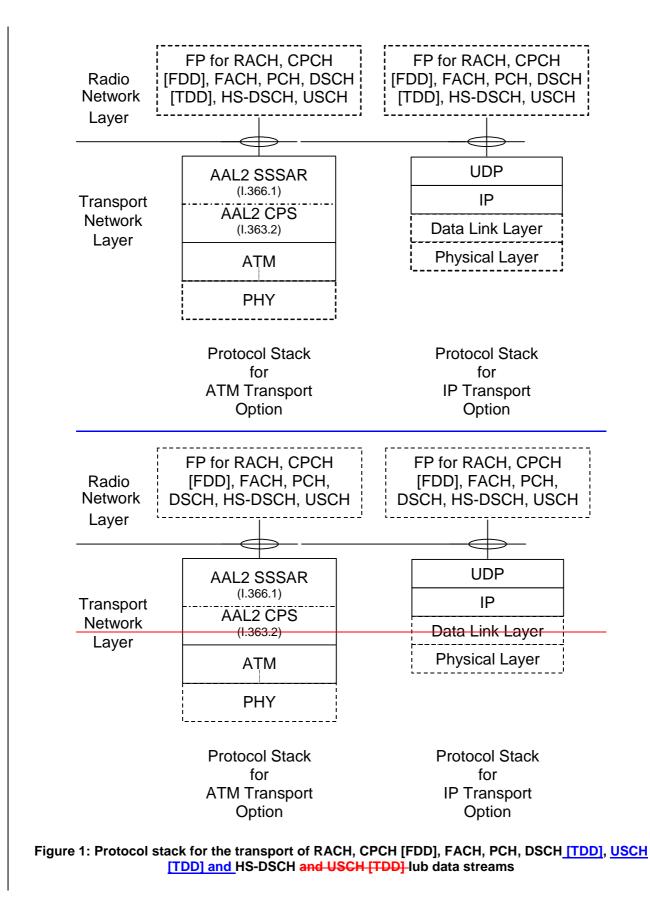
5.1 Introduction

This subclause specifies the transport layers that support Common Transport Channel (FACH, RACH, CPCH [FDD], PCH, DSCH [TDD], USCH [TDD], HS-DSCH, USCH [TDD]) data streams.

There are two options for protocol suites for transport of RACH, CPCH [FDD], FACH, USCH [TDD], DSCH [TDD] and HS-DSCH Iub data streams:

- 1) ATM Transport Option
- 2) IP Transport Option

The following figure 1 shows the protocol stacks of these two options:



5.2 ATM Transport Option

ATM and AAL2 (I.363.2 [1] and I.366.1 [2]) are used at the standard transport layer for Iub RACH, CPCH [FDD] FACH, PCH, DSCH [TDD], USCH [TDD], HS-DSCH, USCH [TDD] data streams.

The Service Specific Segmentation and Reassembly (SSSAR) sublayer is used for the segmentation and reassembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1).

5.3 IP Transport Option

UDP [12] over IP shall be supported as the transport for RACH, CPCH [FDD], FACH, PCH, DSCH [TDD], USCH [TDD] and HS-DSCH and USCH [TDD] data streams on Iub Interface. The data link layer is as specified in chapter 4.2

An IP UTRAN node shall support IPv6 [13]. The support of IPv4 [14] is optional.

NOTE: This does not preclude single implementation and use of IPv4.

IP dual stack is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [15] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. Traffic categories are implementation-specific and may be determined from the application parameters.

CHANGE REQUEST											
ж		<mark>25.434</mark>	CR	036	жrev	-	ж	Current vers	ion:	6.1.0	ж
For <u>HELP</u> or	n usi	ing this fo	rm, see	e bottom of this	s page or	· look	at the	e pop-up text	over t	the	nbols.
Proposed chang	e af	ffects:	UICC a	ıpps ೫ <mark>─</mark>	ME	Rad	dio A	ccess Networ	k X	Core Ne	twork
Title:	ж	Feature	clean-u	p: Removal of	DSCH (F	-DD n	node)			
Source:	ж	RAN3									
Work item code:	ж	TEI5						Date: ೫	09/0)5/2005	
Category:	ι [F (col A (co B (ad C (fur D (ed Detailed ex	rrection) rrespond dition of nctional itorial m planatic	owing categories ds to a correctio feature), modification of f odification) ns of the above <u>TR 21.900</u> .	n in an ea feature)		elease	e) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	(GSM (Relea (Relea (Relea	lowing rele Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4) ase 5) ase 6)	ases:

 Reason for change: #
 In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.

 Summary of change: #
 DSCH is removed from the specifications for the FDD mode.

 Consequences if not approved:
 #

Clauses affected:	# 5.1, 5.2, 5.3.	
	ΥΝ	
Other specs	X Other core specifications X 25.211, 25.212, 25.213, 25.21 25.302, 25.303, 25.306, 25.32 25.401, 25.402, 25.420, 25.42 25.425, 25.427, 25.430, 25.43 25.435	21, 25.331, 23, 25.424,
affected:	XTest specifications34.108, 34.123XO&M Specifications	
Other comments:	In the figure in § 5.1, there is a "[TDD]" hidden after "USCH". It was all hidden prior to the changes in this CR. It will reappear after the implen the "Removal of CPCH" feature CR (xxx).	

How to create CRs using this form:

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

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- 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.

5 I_{ub} Data Transport for Common Transport Channel Data Streams

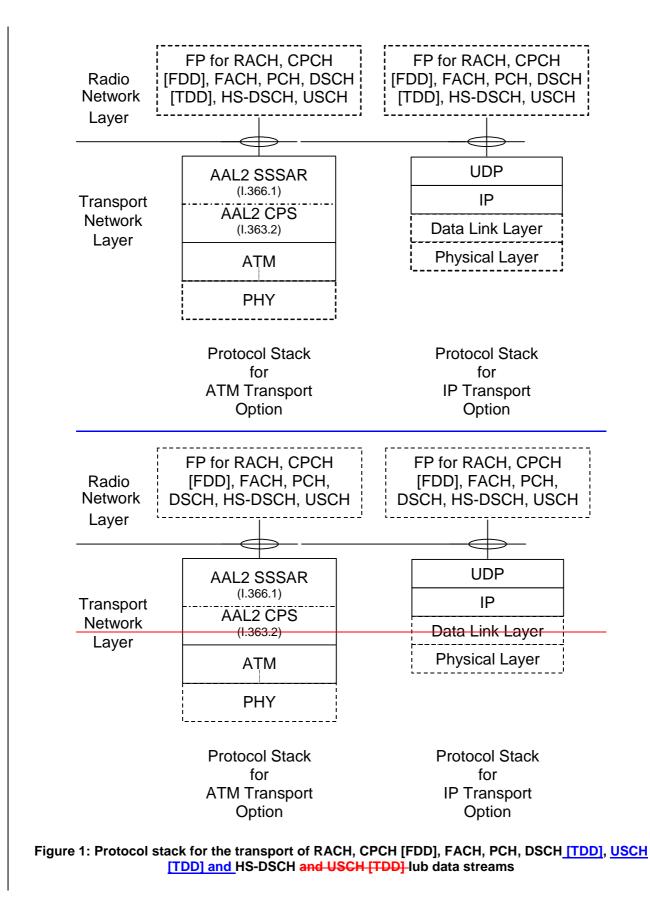
5.1 Introduction

This subclause specifies the transport layers that support Common Transport Channel (FACH, RACH, CPCH [FDD], PCH, DSCH, HS-DSCH, USCH [TDD]) data streams.

There are two options for protocol suites for transport of RACH, CPCH [FDD], FACH, USCH [TDD], DSCH and HS-DSCH Iub data streams:

- 1) ATM Transport Option
- 2) IP Transport Option

The following figure 1 shows the protocol stacks of these two options:



5.2 ATM Transport Option

ATM and AAL2 (I.363.2 [1] and I.366.1 [2]) are used at the standard transport layer for Iub RACH, CPCH [FDD] FACH, PCH, DSCH [TDD], USCH [TDD], HS-DSCH, USCH [TDD] data streams.

The Service Specific Segmentation and Reassembly (SSSAR) sublayer is used for the segmentation and reassembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1).

5.3 IP Transport Option

UDP [12] over IP shall be supported as the transport for RACH, CPCH [FDD], FACH, PCH, DSCH [TDD], USCH [TDD] and HS-DSCH and USCH [TDD] data streams on Iub Interface. The data link layer is as specified in chapter 4.2

An IP UTRAN node shall support IPv6 [13]. The support of IPv4 [14] is optional.

NOTE: This does not preclude single implementation and use of IPv4.

IP dual stack is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [15] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. Traffic categories are implementation-specific and may be determined from the application parameters.

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	modification of	feature)			R98	(Rele	ease 1998)					
<i>D</i> (editorial modification) Detailed explanations of the above ca							can		R99 Rel-4	•	ease 1999) ease 4)		
		be found in			e caley	01185 (Jall		Rel-4 Rel-5	•	ease 4) ease 5)		
									Rel-6	•	ease 6)		
									Rel-7	(Rele	ease 7)		

Reason for change: ೫	In RAN#27, it was agreed to remove the DSCH feature in the FDD mode.
Summary of change: ೫	R1: Comment added in the Cover Page regarding the handling of table in § 5.8.1. Section § 6.2.5 is made TDD specific and its content is updated accordingly.
	R0: DSCH is removed from the specifications for the FDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it affects only one function: DSCH for FDD mode. This CR has an no impact for implementations not supporting this feature. For implementations supporting the "DSCH for FDD mode" feature, it has an impact under functional and protocol point of view. The impact can be considered isolated because the change affects only one system function namely the DSCH for FDD mode.
Consequences if अ not approved:	The obsolete DSCH feature will remain in the specifications.
Clauses affected: Ж	1, 5.1.4, 5.1.6, 5.6, 5.8.1, 5.8.2, 6.2.5, 6.2.7.15, 6.2.7.17, 6.2.7.18, 6.3.2.3, 6.3.3.7.1, 6.3.3.7.2, 6.3.3.7.3.
	YN

Other specs	ж	X	Other core specifications	25.211, 25.212, 25.213, 25.214, 25.301,						
				25.302, 25.303, 25.306, 25.321, 25.331,						
				25.401, 25.402, 25.420, 25.423, 25.424,						
				25.425, 25.427, 25.430, 25.433, 25.434,						
				25.435						
affected:		Х	Test specifications	34.108, 34.123						
)	O&M Specifications							
Other comments:	ж	The	e changes in table 1 in § 5.8.1 are t	to be merged with the changes introduced						
		by	by the "Removal of CPCH Feature" CR (CR137). The table used in this CR							
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			ne removal of the "CPCH" row).	, <u>,</u>						

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1 Scope

The present document provides a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.

NOTE: By Common Transport Channel one must understand RACH, CPCH [FDD], FACH/PCH, DSCH_[TDD], USCH_[TDD] and HS-DSCH.

5.1.4 Downlink Shared Channels [TDD]

The Data Transfer procedure is used to transfer a DSCH DATA FRAME from the CRNC to a Node B.

If the Node B does not receive a valid DSCH DATA FRAME for transmission in a given TTI, it assumes that there is no data to be transmitted in that TTI for this transport channel. For the DSCH transport channel, the TFS shall never define a Transport Block Size of zero bits.

[FDD The Node B shall use the header information in the DSCH DATA FRAME to determine which channelisation code(s) and power offset should be used in the PDSCH Uu frame associated to the specified CFN. The specified channelisation code(s) and power offset shall then be used for PDSCH transmission for as long as there is data to transmit or until a new DSCH DATA FRAME arrives that specifies that a different PDSCH channelisation code(s) and/or power offset should be used. This feature enables multiple DSCH's with different TTI to be supported].

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[TDD—The Node B shall use the header information in the DSCH DATA FRAME to determine which PDSCH Set [3.84Mcps TDD - and Transmit Power Level if no closed loop TPC power control is used] should be used in the PDSCH Uu frames associated to the specified CFN. The specified PDSCH Set [3.84Mcps TDD - and Transmit Power Level if no closed loop TPC power control is used] shall then be used for DSCH transmission for as long as there is data to transmit or until a new DSCH DATA FRAME arrives that specifies that a different PDSCH Set [3.84Mcps TDD and/or Transmit Power Level if no closed loop TPC power control is used] should be used. This feature enables multiple DSCH's with different TTI to be supported].

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Data Frames sent on Iub for different DSCH transport channels multiplexed on one CCTrCH might indicate different transmission power levels to be used in a certain Uu frame. Node-B shall determine the highest DL power level required for any of the transport channels multiplexed in a certain Uu frame and use this power level as the desired output level.

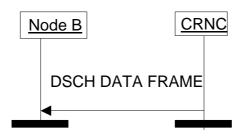


Figure 5: DSCH Data Transfer procedure

5.1.6 High Speed Downlink Shared Channels

The Data Transfer procedure is used to transfer a HS-DSCH DATA FRAME from the CRNC to a Node B.

When the CRNC has been granted capacity by the Node B via the HS-DSCH CAPACITY ALLOCATION Control Frame or via the HS-DSCH initial capacity allocation as described in [6] and the CRNC has data waiting to be sent, then the HS-DSCH DATA FRAME is used to transfer the data. If the CRNC has been granted capacity by the Node B via the HS-DSCH initial capacity allocation as described in [6], this capacity is valid for only the first HS-DSCH DATA FRAME transmission. When data is waiting to be transferred, and a CAPACITY ALLOCATION is received, a DATA FRAME will be transmitted immediately according to allocation received.

Multiple MAC-d PDUs of same length and same priority level (CmCH-PI) may be transmitted in one MAC-d flow in the same HS-DSCH DATA FRAME.

The HS-DSCH DATA FRAME includes a *User Buffer Size* IE to indicate the amount of data pending for the respective MAC-d flow for the indicated priority level. Within one priority level and size the MAC-d PDUs shall be transmitted by the Node B on the Uu interface in the same order as they were received from the CRNC.

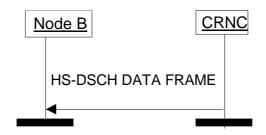


Figure 6A: <u>HS-</u>DSCH Data Transfer procedure

5.6 DSCH TFCI Signalling [FDD]

<u>Void</u>This procedure is used in order to signal to the Node B the TFCI (field 2). This allows the Node B to build the TFCI word(s) which have to be transmitted on the DPCCH.

The procedure consists in sending the DSCH TFCI signalling control frame from the CRNC to the Node B. The frame contains the TFCI (field 2) and the correspondent Connection Frame Number. The DSCH TFCI SIGNALLING frame is sent once every Uu frame interval (10 ms) for as long as there is DSCH data for that UE to be transmitted in the associated PDSCH Uu frame.

In the event that the Node B does not receive a DSCH TFCI SIGNALLING control frame then the Node B shall infer that no DSCH data is to be transmitted to the UE on the associated PDSCH Uu frame and will build the TFCI word(s) accordingly.

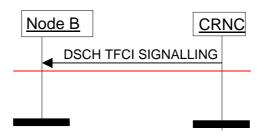


Figure 11: DSCH TFCI Signalling procedure

5.8 General

5.8.1 Association between transport bearer and data/control frames

Table 1 shows how the data and control frames are associated to the transport bearers. 'yes' indicates that the control frame is applicable to the transport bearer, 'no' indicates that the control frame is not applicable to the transport bearer.

Transport	Associated		Associated control frames									
<u>bearer</u> used for	<u>data</u> frame	<u>Timing</u> <u>Adjust-</u> <u>ment</u>	DL Transport Channels Synchroni- sation	<u>Node</u> Synchroni sation	Dynamic PUSCH Assign- ment	<u>Timing</u> <u>Advance</u>	<u>Outer</u> Loop PC Info Transfer	HS-DSCH Capacity Request	HS-DSCH Capacity Allocation			
RACH	RACH DATA FRAME	<u>no</u>	no	no	no	<u>no</u>	<u>no</u>	no	<u>no</u>			
<u>FACH</u>	FACH DATA FRAME	<u>yes</u>	<u>yes</u>	<u>yes</u>	no	no	no	no	<u>no</u>			
<u>CPCH</u>	<u>CPCH</u> <u>DATA</u> <u>FRAME</u>	<u>no</u>	no	no	<u>no</u>	<u>no</u>	no	no	<u>no</u>			
<u>PCH</u>	PCH DATA FRAME	<u>yes</u>	<u>yes</u>	<u>yes</u>	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>			
<u>DSCH</u>	DSCH DATA FRAME	<u>yes</u>	<u>yes</u>	<u>yes</u>	no	<u>no</u>	<u>no</u>	no	<u>no</u>			
<u>USCH</u>	<u>USCH</u> DATA FRAME	<u>no</u>	no	no	<u>yes</u>	<u>yes</u>	<u>yes</u>	no	<u>no</u>			
HS-DSCH	<u>HS-DSCH</u> <u>DATA</u> <u>FRAME</u>	<u>no</u>	no	no	no	<u>no</u>	<u>no</u>	<u>yes</u>	<u>yes</u>			

Table 1

Transp	Associat	Associated control frames								
ort bearer used for	ed data frame	Timing Adjust- ment	DL Transport Channels Synchroni sation	Node Synchro nisation	Dynamic PUSCH Assign- ment	Timing Advan ce	DSCH TFCI Signal- ling	Outer Loop PC Info Xfer	HS- DSCH Capacity Request	HS- DSCH Capacity Allocatio #
RACH	RACH DATA FRAME	no	no	no	no	no	no	no	no	no
FACH	FACH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
CPCH	CPCH DATA FRAME	no	no	no	no	no	no	no	no	no
PCH	PCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
ÐSCH	DSCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
USCH	USCH DATA FRAME	no	no	no	yes	yes	no	yes	no	no
H S- DSCH	HS- DSCH DATA FRAME	no	no	no	no	no	10	no	yes	yes
TFCI2	-	yes	yes	yes	no	no	yes	no	no	no

5.8.2 DSCH / [TDD – USCH] transport bearer replacement [TDD]

As described in NBAP [6], transport bearer replacement can be achieved for a DSCH [TDD or USCH] by using the Synchronised Radio Link Reconfiguration Preparation procedure in combination with the Synchronised Radio Link Reconfiguration Commit procedure. The following steps can be discerned:

- 1) The new transport bearer is established after which 2 transport bearers exist in parallel.
- 2) The transport channel(s) is/are switched to the new transport bearer.
- 3) The old transport bearer is released.

DSCH transport bearer replacement, step 1:

Communication on the old transport bearer continues as normal. In addition, the Node B shall support DSCH DATA FRAMEs, the DL Transport Channel Synchronisation procedure (see sub-clause 5.3) and the DL Timing Adjustment procedure (see sub-clause 5.4) on the new bearer. This enables the CRNC to determine the timing on the new transport bearer. DSCH DATA FRAMEs transported on the new transport bearer shall not be transmitted on the Uu Interface before the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

[TDD -- USCH transport bearer replacement, step 1:]

[TDD—Communication on the old transport bearer continues as normal.]

DSCH [/TDD—USCH] Transport Bearer Replacement step 2:

Regarding step 2), the moment of switching is determined as follows:

- The DSCH DATA FRAMEs [TDD—or USCH DATA FRAMEs] shall be transported on the new transport bearer from the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

Starting from this CFN the Node B shall support all applicable Common Transport Channels frame protocol procedures on the new transport bearer and no requirements exist regarding support of Common Transport Channels frame protocol procedures on the old transport bearer.

DSCH [/TDD—USCH] Transport Bearer Replacement step 3:

Finally in step 3), the old transport bearer is released.

6.2.5 Downlink Shared Channels [TDD]

DSCH DATA FRAME includes a CFN indicating the SFN of the PDSCH in which the payload shall be sent. If the payload is to be sent over several frames, the CFN corresponding to the first frame shall be indicated.

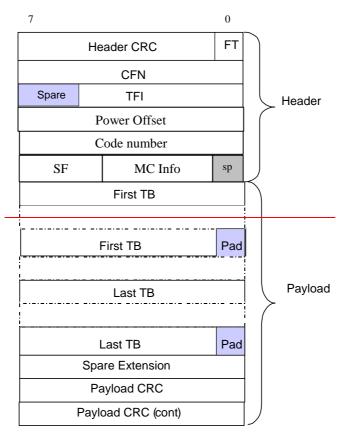


Figure 19: FDD DSCH DATA FRAME structure

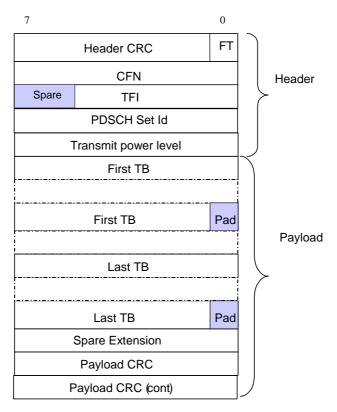


Figure 20: **TDD**-DSCH DATA FRAME structure

Transmit Power Level is a conditional Information Element which is only present when the Cell supporting the DSCH Transport Channel is a TDD Cell.

6.2.7.15 Code Number [FDD]

Description: The code number of the PDSCH (the same mapping is used as for the 'code number' IE in [8]).

Value Range: {0..255}.

Field length: 8 bits Void.

6.2.7.16 Spreading Factor (SF) [FDD]

Description: The spreading factor of the PDSCH.

Spreading factor = 0 Spreading factor to be used = 4.

Spreading factor = 1 Spreading factor to be used = 8.

Spreading factor = 6 Spreading factor to be used = 256.

Value Range: {4,8,16,32,64,128, 256}.

Field length: 3 bits.

6.2.7.17 Power Offset [FDD]

Description: Used to indicate the preferred FDD PDSCH transmission power level. The indicated value is the offset relative to the power of the TFCI bits of the downlink DPCCH directed to the same UE as the DSCH.

Power offset = 0 Power offset to be applied = 32 dB.

Power offset = 1 Power offset to be applied = 31.75 dB.

Power offset = 255 Power offset to be applied = +31.75 dB.

Value range: { 32 .. +31.75 dB}.

Granularity: 0.25 dB.

Field length: 8 bitsVoid.

6.2.7.18 MC Info [FDD]

Description: Used to indicate the number of parallel PDSCH codes on which the DSCH data will be carried. Where multi-code transmission is used the SF of all codes is the same and code numbers are contiguous within the code tree with increasing code number values starting from the code number indicated in the 'code number' field.

Value range: {1..16}.

Field length: 4 bits Void.

6.3.2 Coding of information elements of the Control frame header

6.3.2.1 Frame CRC

Description: Cyclic Redundancy Checksum calculated on a control frame with polynom: $X^7+X^6+X^2+1$.

The CRC calculation shall cover all bits in the control frame, starting from bit 0 in the first byte (FT field) up to the end of the control frame. See subclause 7.1.

Value range: {0..127}.

Field length: 7 bits.

6.3.2.2 Frame Type (FT)

Refer to subclause 6.2.7.2.

6.3.2.3 Control Frame Type

Description: Indicates the type of the control information (information elements and length) contained in the payload.

Value: Values of the Control Frame Type parameter are defined in table 2.

Table 2

Type of control frame	Value
OUTER LOOP POWER CONTROL	0000 0001
TIMING ADJUSTMENT	0000 0010
DL SYNCHRONISATION	0000 0011
UL SYNCHRONISATION	0000 0100
DSCH TFCI SIGNALLINGReserved	0000 0101
Value	
DL NODE SYNCHRONISATION	0000 0110
UL NODE SYNCHRONISATION	0000 0111
DYNAMIC PUSCH ASSIGNMENT	0000 1000
TIMING ADVANCE	0000 1001
HS-DSCH Capacity Request	0000 1010
HS-DSCH Capacity Allocation	0000 1011

Field Length: 8 bits.

The "Reserved Value" for the *Control Frame Type* IE shall not be used by the SRNC. A control frame whose *Control Frame Type* IE is set to the "Reserved Value" shall be ignored by the Node B.

6.3.3.7 DSCH TFCI SIGNALLING [FDD]

6.3.3.7.1 Payload structure

Figure 32 shows the structure of the payload when the control frame is used for signalling TFCI (field 2) bits. The TFCI (field 2) bits are used by the Node B to create the TFCI word(s) for transmission on the DPCCHVoid.

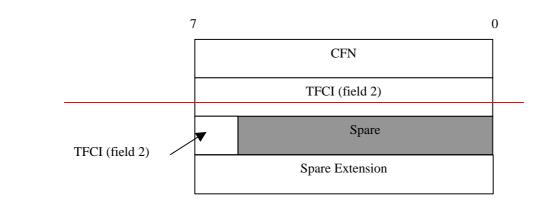


Figure 32: DSCH TFCI SIGNALLING payload structure

6.3.3.7.2 TFCI (field 2)

Description: TFCI (field 2) is as described in [6], it takes the same values as the TFCI (field 2) which is transmitted over the Uu interface.

Value range: {0..1023}

Field length: 10 bitsVoid.

6.3.3.7.3 Spare Extension

Refer to subclause 6.3.3.1.4 Void.

CHANGE REQUEST									
ж	25.435	CR 140	жrev	1 ^ж	Current vers	^{ion:} 6.1.0	H		
For <u>HELP</u> on	using this fo	rm, see bottom of	this page or	look at th	e pop-up text	over the X syl	mbols.		
Proposed change	e affects:	UICC apps೫	ME	Radio A	ccess Networ	k X Core Ne	etwork		
Title:	feature of the featur	<mark>clean-up: Removal</mark>	of DSCH (F	DD mode	e)				
Source:	<mark>€ RAN3</mark>								
Work item code:	fe <mark>TEI5</mark>				<i>Date:</i> ೫	09/05/2005			
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 Reason for change: #
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 Consequences if not approved:
 #

Clauses affected:			1.4, 5.1.6, 5.6, 5.8.1, 5.8.2, (.7.1, 6.3.3.7.2, 6.3.3.7.3.	6.2.5, (6.2.7.15, 6.2.7.17, 6.2.7.18, 6.3.2.3,
	Y	′ N			
Other specs	ж 🗡	K	Other core specifications	Ħ	25.211, 25.212, 25.213, 25.214, 25.301,
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					25.425, 25.427, 25.430, 25.433, 25.434,
					25.435
affected:	X	(Test specifications		34.108, 34.123
		Х	O&M Specifications		
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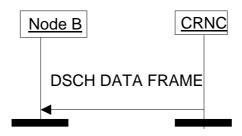


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5.1.6 High Speed Downlink Shared Channels

The Data Transfer procedure is used to transfer a HS-DSCH DATA FRAME from the CRNC to a Node B.

When the CRNC has been granted capacity by the Node B via the HS-DSCH CAPACITY ALLOCATION Control Frame or via the HS-DSCH initial capacity allocation as described in [6] and the CRNC has data waiting to be sent, then the HS-DSCH DATA FRAME is used to transfer the data. If the CRNC has been granted capacity by the Node B via the HS-DSCH initial capacity allocation as described in [6], this capacity is valid for only the first HS-DSCH DATA FRAME transmission. When data is waiting to be transferred, and a CAPACITY ALLOCATION is received, a DATA FRAME will be transmitted immediately according to allocation received.

Multiple MAC-d PDUs of same length and same priority level (CmCH-PI) may be transmitted in one MAC-d flow in the same HS-DSCH DATA FRAME.

The HS-DSCH DATA FRAME includes a *User Buffer Size* IE to indicate the amount of data pending for the respective MAC-d flow for the indicated priority level. Within one priority level and size the MAC-d PDUs shall be transmitted by the Node B on the Uu interface in the same order as they were received from the CRNC.

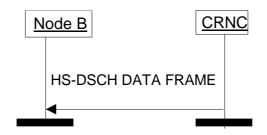


Figure 6A: <u>HS-</u>DSCH Data Transfer procedure

5.6 DSCH TFCI Signalling [FDD]

This procedure is used in order to signal to the Node B the TFCI (field 2). This allows the Node B to build the TFCI word(s) which have to be transmitted on the DPCCH.

The procedure consists in sending the DSCH TFCI signalling control frame from the CRNC to the Node B. The frame contains the TFCI (field 2) and the correspondent Connection Frame Number. The DSCH TFCI SIGNALLING frame is sent once every Uu frame interval (10 ms) for as long as there is DSCH data for that UE to be transmitted in the associated PDSCH Uu frame.

In the event that the Node B does not receive a DSCH TFCI SIGNALLING control frame then the Node B shall infer that no DSCH data is to be transmitted to the UE on the associated PDSCH Uu frame and will build the TFCI word(s) accordingly Void.

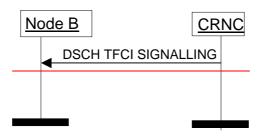


Figure 11: DSCH TFCI Signalling procedure

5.8 General

5.8.1 Association between transport bearer and data/control frames

Table 1 shows how the data and control frames are associated to the transport bearers. 'yes' indicates that the control frame is applicable to the transport bearer, 'no' indicates that the control frame is not applicable to the transport bearer.

Transport	Associated		Associated control frames						
<u>bearer</u> used for	<u>data</u> frame	<u>Timing</u> <u>Adjust-</u> <u>ment</u>	DL Transport Channels Synchroni- sation	<u>Node</u> Synchroni sation	Dynamic PUSCH Assign- ment	<u>Timing</u> <u>Advance</u>	<u>Outer</u> Loop PC Info Transfer	HS-DSCH Capacity Request	HS-DSCH Capacity Allocation
RACH	RACH DATA FRAME	<u>no</u>	no	no	no	<u>no</u>	<u>no</u>	no	<u>no</u>
<u>FACH</u>	FACH DATA FRAME	<u>yes</u>	<u>yes</u>	<u>yes</u>	no	no	no	no	<u>no</u>
<u>CPCH</u>	<u>CPCH</u> <u>DATA</u> <u>FRAME</u>	<u>no</u>	no	no	<u>no</u>	<u>no</u>	no	no	<u>no</u>
<u>PCH</u>	PCH DATA FRAME	<u>yes</u>	<u>yes</u>	<u>yes</u>	<u>no</u>	<u>no</u>	<u>no</u>	no	<u>no</u>
<u>DSCH</u>	DSCH DATA FRAME	<u>yes</u>	<u>yes</u>	<u>yes</u>	no	<u>no</u>	<u>no</u>	no	<u>no</u>
<u>USCH</u>	<u>USCH</u> <u>DATA</u> <u>FRAME</u>	<u>no</u>	no	no	<u>yes</u>	<u>yes</u>	<u>yes</u>	no	<u>no</u>
HS-DSCH	<u>HS-DSCH</u> <u>DATA</u> <u>FRAME</u>	<u>no</u>	no	no	no	<u>no</u>	<u>no</u>	<u>yes</u>	<u>yes</u>

Table 1

Transp	Associat	Associated control frames								
ort bearer used for	ed data frame	Timing Adjust- ment	DL Transport Channels Synchroni sation	Node Synchro nisation	Dynamic PUSCH Assign- ment	Timing Advan ce	DSCH TFCI Signal- ling	Outer Loop PC Info Xfer	HS- DSCH Capacity Request	HS- DSCH Capacity Allocatio #
RACH	RACH DATA FRAME	no	no	no	no	no	no	no	no	no
FACH	FACH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
CPCH	CPCH DATA FRAME	no	no	no	no	no	no	no	no	no
PCH	PCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
ÐSCH	DSCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
USCH	USCH DATA FRAME	no	no	no	yes	yes	no	yes	no	no
H S- DSCH	HS- DSCH DATA FRAME	no	no	no	no	no	₽₽	no	yes	yes
TFCI2	-	yes	yes	yes	no	no	yes	no	no	no

5.8.2 DSCH / [TDD - USCH] transport bearer replacement [TDD]

As described in NBAP [6], transport bearer replacement can be achieved for a DSCH [TDD—or USCH] by using the Synchronised Radio Link Reconfiguration Preparation procedure in combination with the Synchronised Radio Link Reconfiguration Commit procedure. The following steps can be discerned:

- 1) The new transport bearer is established after which 2 transport bearers exist in parallel.
- 2) The transport channel(s) is/are switched to the new transport bearer.
- 3) The old transport bearer is released.

DSCH transport bearer replacement, step 1:

Communication on the old transport bearer continues as normal. In addition, the Node B shall support DSCH DATA FRAMEs, the DL Transport Channel Synchronisation procedure (see sub-clause 5.3) and the DL Timing Adjustment procedure (see sub-clause 5.4) on the new bearer. This enables the CRNC to determine the timing on the new transport bearer. DSCH DATA FRAMEs transported on the new transport bearer shall not be transmitted on the Uu Interface before the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

[TDD -- USCH transport bearer replacement, step 1:]

[TDD—Communication on the old transport bearer continues as normal.]

DSCH [/TDD—USCH] Transport Bearer Replacement step 2:

Regarding step 2), the moment of switching is determined as follows:

- The DSCH DATA FRAMEs [TDD—or USCH DATA FRAMEs] shall be transported on the new transport bearer from the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

Starting from this CFN the Node B shall support all applicable Common Transport Channels frame protocol procedures on the new transport bearer and no requirements exist regarding support of Common Transport Channels frame protocol procedures on the old transport bearer.

DSCH [/TDD—USCH] Transport Bearer Replacement step 3:

Finally in step 3), the old transport bearer is released.

6.2.5 Downlink Shared Channels [TDD]

DSCH DATA FRAME includes a CFN indicating the SFN of the PDSCH in which the payload shall be sent. If the payload is to be sent over several frames, the CFN corresponding to the first frame shall be indicated.

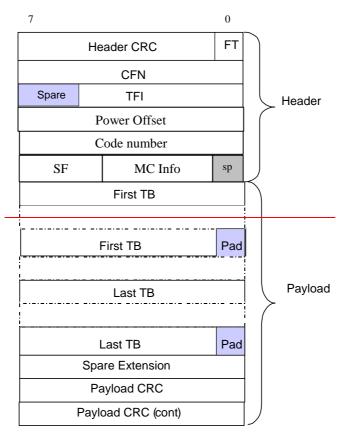


Figure 19: FDD DSCH DATA FRAME structure

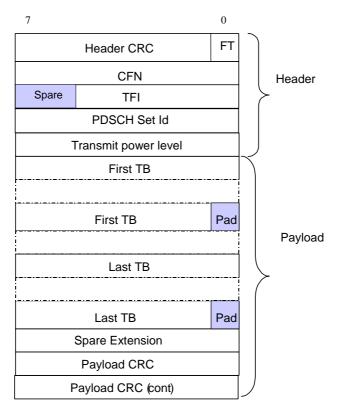


Figure 20: TDD-DSCH DATA FRAME structure

Transmit Power Level is a conditional Information Element which is only present when the Cell supporting the DSCH Transport Channel is a TDD Cell.

6.2.7.15 Code Number [FDD]

Description: The code number of the PDSCH (the same mapping is used as for the 'code number' IE in [8]).

Value Range: {0..255}.

Field length: 8 bits Void.

6.2.7.16 Spreading Factor (SF) [FDD]

Description: The spreading factor of the PDSCH.

Spreading factor = 0 Spreading factor to be used = 4.

Spreading factor = 1 Spreading factor to be used = 8.

Spreading factor = 6 Spreading factor to be used = 256.

Value Range: {4,8,16,32,64,128, 256}.

Field length: 3 bits.

6.2.7.17 Power Offset [FDD]

Description: Used to indicate the preferred FDD PDSCH transmission power level. The indicated value is the offset relative to the power of the TFCI bits of the downlink DPCCH directed to the same UE as the DSCH.

Power offset = 0 Power offset to be applied = 32 dB.

Power offset = 1 Power offset to be applied = 31.75 dB.

Power offset = 255 Power offset to be applied = +31.75 dB.

Value range: { 32 .. +31.75 dB}.

Granularity: 0.25 dB.

Field length: 8 bitsVoid.

6.2.7.18 MC Info [FDD]

Description: Used to indicate the number of parallel PDSCH codes on which the DSCH data will be carried. Where multi-code transmission is used the SF of all codes is the same and code numbers are contiguous within the code tree with increasing code number values starting from the code number indicated in the 'code number' field.

Value range: {1..16}.

Field length: 4 bits Void.

6.3.2 Coding of information elements of the Control frame header

6.3.2.1 Frame CRC

Description: Cyclic Redundancy Checksum calculated on a control frame with polynom: $X^7+X^6+X^2+1$.

The CRC calculation shall cover all bits in the control frame, starting from bit 0 in the first byte (FT field) up to the end of the control frame. See subclause 7.1.

Value range: {0..127}.

Field length: 7 bits.

6.3.2.2 Frame Type (FT)

Refer to subclause 6.2.7.2.

6.3.2.3 Control Frame Type

Description: Indicates the type of the control information (information elements and length) contained in the payload.

Value: Values of the Control Frame Type parameter are defined in table 2.

Table 2

Type of control frame	Value
OUTER LOOP POWER CONTROL	0000 0001
TIMING ADJUSTMENT	0000 0010
DL SYNCHRONISATION	0000 0011
UL SYNCHRONISATION	0000 0100
Reserved Value DSCH TFCI	0000 0101
SIGNALLING	
DL NODE SYNCHRONISATION	0000 0110
UL NODE SYNCHRONISATION	0000 0111
DYNAMIC PUSCH ASSIGNMENT	0000 1000
TIMING ADVANCE	0000 1001
HS-DSCH Capacity Request	0000 1010
HS-DSCH Capacity Allocation	0000 1011

Field Length: 8 bits.

The "Reserved Value" for the *Control Frame Type* IE shall not be used by the SRNC. A control frame whose *Control Frame Type* IE is set to the "Reserved Value" shall be ignored by the Node B.

6.3.3.7 DSCH TFCI SIGNALLING [FDD]

6.3.3.7.1 Payload structure

<u>Void</u>Figure 32 shows the structure of the payload when the control frame is used for signalling TFCI (field 2) bits. The TFCI (field 2) bits are used by the Node B to create the TFCI word(s) for transmission on the DPCCH.

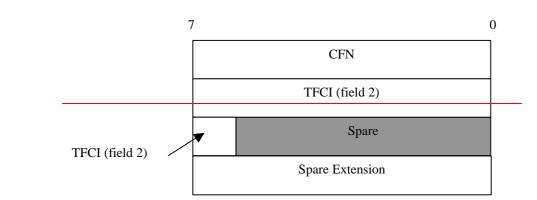


Figure 32: DSCH TFCI SIGNALLING payload structure

6.3.3.7.2 TFCI (field 2)

Description: TFCI (field 2) is as described in [6], it takes the same values as the TFCI (field 2) which is transmitted over the Uu interface.

Value range: {0..1023}

Field length: 10 bitsVoid.

6.3.3.7.3 Spare Extension

Refer to subclause 6.3.3.1.4 Void.

3GPP TSG-RAN WG3 #47 Athens, Greece, 9th – 13th May 2005

ж**R3-050741**

	CHANGE REQUEST									
ж	25.931 CR 037	жrev	<mark>-</mark>	Current versi	^{ion:} 5.1.0	ж				
For <u>HELP</u> on	using this form, see bottom of this	s page or lo	ok at the j	pop-up text	over the X syr	nbols.				
Proposed change	affects: UICC apps#	ME	Radio Acc	ess Networ	k 🗙 Core Ne	etwork				
Title:	Feature clean up: removal of E	DSCH (FDD) mode)							
Source: a	RAN3									
Work item code: ३	f TEI5			<i>Date:</i> ೫	09/05/2005					
Category: ३	 C Use <u>one</u> of the following categories F (correction) A (corresponds to a correction B (addition of feature), C (functional modification of feature), C (functional modification) Detailed explanations of the above be found in 3GPP <u>TR 21.900</u>. 	n in an earlie eature)	er release)	Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	REL-5 the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	eases:				
Reason for chang	e:	s decide to	remove D	SCH featur	e for FDD					

Summary of change: ೫	DSCH feature for FDD has been removed from signalling examples.
Consequences if %	TR25.931 will contain a feature that doesn't exist anymore.
not approved:	

Clauses affected:	ж <mark>7.10; 7.1</mark>	11		
	YN			
Other specs	# X O1	ther core specifications	Ħ	25.211, 25.212, 25.213, 25.214, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.402, 25.420, 25.423, 25.424, 25.425, 25.427, 25.430, 25.433, 25.434, 25.435
affected:		est specifications &M Specifications		34.108, 34.123
Other comments:	ж			

How to create CRs using this form:

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

3GPP TR 25.931 v5.1.0 (2002-06)

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

7.10 Soft Handover (FDD)

This subclause presents some examples of soft handover procedures. The following cases are considered:

- Radio Link Addition (Branch Addition);
- Radio link Deletion (Branch Deletion);
- Radio link Addition & Deletion (Branch Addition & Deletion simultaneously).
- DSCH mobility procedure in Soft Handover (moving DSCH within the active set).

Soft Handover applies only to FDD mode.

7.10.1 Radio Link Addition (Branch Addition)

This example shows establishment of a radio link via a Node B controlled by another RNC than the serving RNC. This is the first radio link to be established via this RNS, thus macro-diversity combining/splitting with already existing radio links within DRNS is not possible.

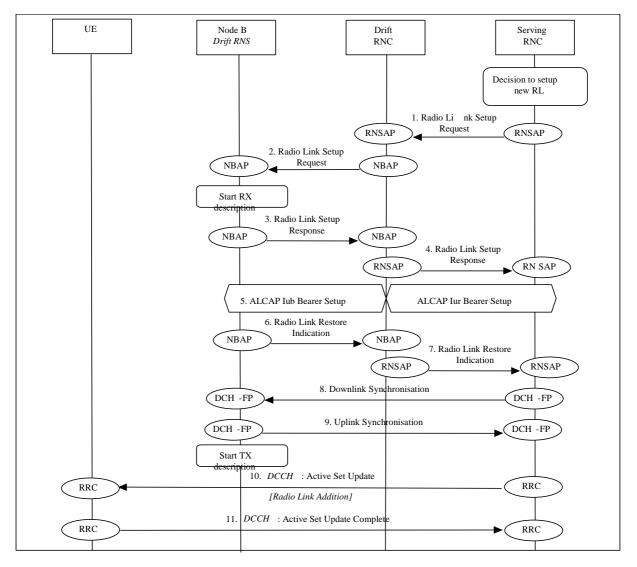


Figure 24: Soft Handover - Radio Link Addition (Branch Addition)

 SRNC decides to setup a radio link via a new cell controlled by another RNC. SRNC requests DRNC for radio resources by sending RNSAP message **Radio Link Setup Request**. If this is the first radio link via the DRNC for this UE, a new Iur signalling connection is established. This Iur signalling connection will be used for all RNSAP signalling related to this UE.

Parameters: Cell id, Transport Format Set per DCH, Transport Format Combination Set, frequency, UL scrambling code.

- If requested resources are available, DRNC sends NBAP message Radio Link Setup Request to Node B. Parameters: Cell id, Transport Format Set per DCH, Transport Format Combination Set, frequency, UL scrambling code. Then Node B starts the UL reception.
- Node B allocates requested resources. Successful outcome is reported in NBAP message Radio Link Setup Response.
 Parameters: Signalling link termination, Transport layer addressing information (AAL2 address, AAL2 Binding Identitie(s)) for Data Transport Bearer(s).
- DRNC sends RNSAP message Radio Link Setup Response to SRNC. Parameters: Transport layer addressing information (AAL2 address, AAL2 Binding Identity) for Data Transport Bearer(s), Neighbouring cell information.
- 5. SRNC initiates setup of Iur/Iub Data Transport Bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to DCH. This may be repeated for each Iur/Iub Data Transport Bearer to be setup.

- 6./7. Node B achieves uplink sync on the Uu and notifies DRNC with NBAP message **Radio Link Restore Indication**. In its turn DRNC notifies SRNC with RNSAP message **Radio Link Restore Indication**.
- 8./9. Node B and SRNC establish synchronism for the Data Transport Bearer(s) by means of exchange of the appropriate DCH Frame Protocol frames **Downlink Synchronisation** and **Uplink Synchronisation**, relative already existing radio link(s). Then Node B starts DL transmission.
- 10. SRNC sends RRC message Active Set Update (Radio Link Addition) to UE on DCCH. Parameters: Update type, Cell id, DL scrambling code, Power control information, Ncell information.
- 11. UE acknowledges with RRC message Active Set Update Complete.
- NOTE: The order of transmission of **Radio Link Restore Indication** messages (steps 6 and 7) is not necessarily identical to that shown in the example. These messages could be sent before the ALCAP bearer setup (step 5) or after the transport bearer synchronisation (steps 8 and 9).

7.10.2 Radio link Deletion (Branch Deletion)

This example shows deletion of a radio link belonging to a Node B controlled by another RNC than the serving RNC.

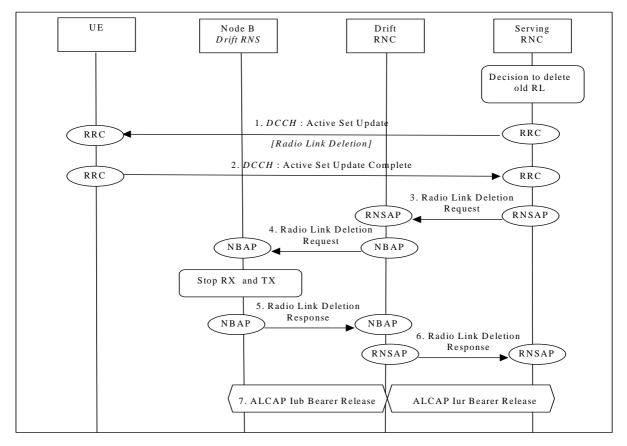


Figure 25: Soft Handover - Radio Link Deletion (Branch Deletion)

- SRNC decides to remove a radio link via an old cell controlled by another RNC. SRNC sends RRC message Active Set Update (Radio Link Deletion) to UE on DCCH. Parameters: Update type, Cell id.
- 2. UE deactivates DL reception via old branch, and acknowledges with RRC message Active Set Update Complete.
- 3. SRNC requests DRNC to deallocate radio resources by sending RNSAP message **Radio Link Deletion Request**.

Parameters: Cell id, Transport layer addressing information.

- 4. DRNC sends NBAP message **Radio Link Deletion Request** to Node B. Parameters: Cell id, Transport layer addressing information.
- 5. Node B deallocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
- 6. DRNC sends RNSAP message Radio Link Deletion Response to SRNC.
- 7. SRNC initiates release of Iur/Iub Data Transport Bearer using ALCAP protocol.

7.10.3 Radio link Addition & Deletion (Branch Addition & Deletion simultaneously)

This example shows simultaneous deletion of a radio link belonging to a Node B controlled by the serving RNC and the establishment of a radio link via a Node B controlled by another RNC than the serving RNC. This is the first radio link to be established via this RNS, thus macro-diversity combining/splitting with already existing radio links within DRNS is not possible.

This procedure is needed when the maximum number of branches allowed for the macrodiversity set has already been reached.

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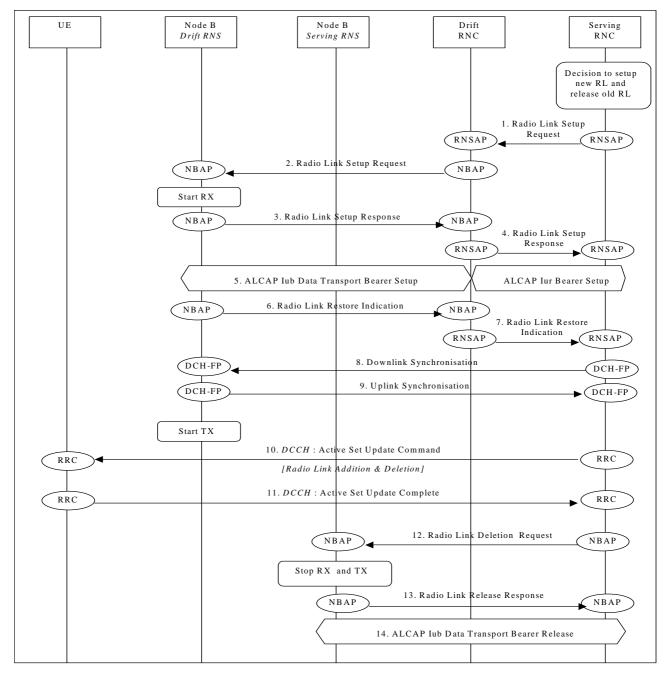


Figure 26: Soft Handover - Radio link Addition & Deletion (Branch Addition & Deletion - simultaneously)

- 1. \Rightarrow 9. See description 1. \Rightarrow 9. in subclause 7.10.1.
- 10. SRNC sends RRC message Active Set Update (Radio Link Addition & Deletion) to UE on DCCH. Parameters: Update type, Cell id, DL scrambling code, Power control information, Ncell information.
- 11. UE deactivates DL reception via old branch, activates DL reception via new branch and acknowledges with RRC message **Active Set Update Complete**.
- 12. \Rightarrow 14. See description 3. \Rightarrow 7. in subclause 7.10.2.

7.10.4 DSCH Mobility Procedure in Soft Handover (Moving DSCH within the Active Set)Void

<u>Void</u>. This example shows how DSCH can be moved from one radio link to another in the case where UE is inmacrodiversity on the associated DCH. At the beginning of this example the UE has:

⁻one radio link to a Node B controlled by the Serving RNC, and

- one radio link to a Node B controlled by another RNC than the Serving RNC.

The former radio link carries both a DCH and a DSCH, whereas the latter carries a DCH only. They are referred to as *source DSCH radio link* and *target DSCH radio link*, respectively.

Initially, the TFCI (sent on the DCH) is in macrodiversity. The TFCI2 field is carried over Iub and Iur over the sametransport bearers as the associated DCH.

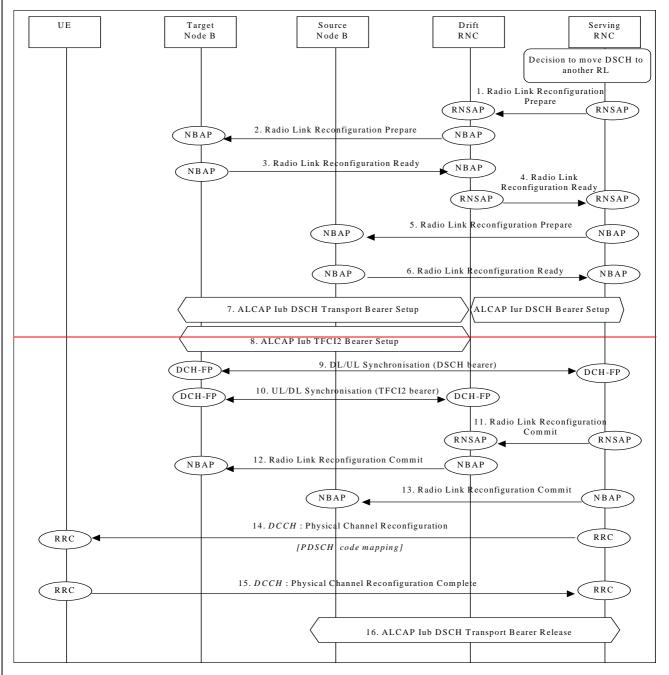


Figure 26a: DSCH mobility procedure in Soft Handover --- (moving DSCH within the active set)

1.SRNC decides to move the DSCH to the cell controlled by the DRNS i.e. to the target DSCH radio link. SRNCsends RNSAP message **Radio Link Reconfiguration Prepare** to DRNC. Parameters: new PDSCH RL ID.

2.DRNC requests from target Node B to perform synchronised radio link reconfiguration using the **Radio Link Reconfiguration Prepare** message, adding DSCH resources on the target DSCH radio link. Parameters: new PDSCH RL ID, Transport Bearer Request Indicator; TFCI2 bearer specific information; TFCI signalling modeset to "Hard Split".

- 3. Target Node B returns Radio Link Reconfiguration Ready message to DRNC. Parameters: DSCH information response (Transport Layer Address; Binding ID); TFCI2 bearer information response (Transport Layer Address; Binding ID).
- 4.DRNC returns a **Radio Link Reconfiguration Ready** message to SRNC. Parameters: DSCH flow controlinformation; PDSCH code mapping; Transport Layer Address, Binding ID.
- 5.SRNC requests from Source Node B to perform synchronised radio link reconfiguration using the **Radio Link Reconfiguration Prepare** message, removing DSCH resources from the source DSCH radio link. Parameters: new PDSCH RL ID, TFCI Signalling Mode set to "Hard Split".

6.Source Node B returns Radio Link Reconfiguration Ready message to SRNC.

7. Transport bearer for the DSCH is setup on Iur and Iub.

- 8. Transport bearer for the TFCI2 is setup on Iub.
- 9.DCH synchronisation procedure is carried out on the DSCH bearer, between SRNC and target Node B.
- 10.DL transport channels synchronisation procedure is carried out on the TFCI2 bearer, between DRNC and target-Node B.
- 11–13.Exchange of **Radio Link Reconfiguration Commit** messages indicating the CFN at which the DSCH should be moved from the source DSCH radio link to the target DSCH radio link.
- 14.SRNC sends Physical Channel Reconfiguration message to UE indicating that the PDSCH channel has been moved to the target DSCH radio link. The source DSCH radio link is not deleted, however the TFCI field is notin macrodiversity anymore. Parameters: Activation time; PDSCH code mapping; PDSCH with SHO DCH Info. The latter parameter indicates that the UE must not soft combine the TFCI because the TFCI signalling mode isset to "Hard Split".
- 15.At the indicated time UE stops receiving DSCH on the source DSCH radio link and starts reception on the target DSCH radio link. The UE returns a **Physical Channel Reconfiguration Complete** message to SRNC.
- 16. The Iub Transport bearer for the DSCH is released towards the source Node B. Note that there was no TFCI2bearer on the source DSCH radio link.

7.10.5 HS-DSCH Mobility Procedures

7.10.5.1 Intra-Node B synchronised serving HS-DSCH cell change

This subclause shows an example of an intra-Node B serving HS-DSCH cell change while keeping the dedicated physical channel configuration and the active set.

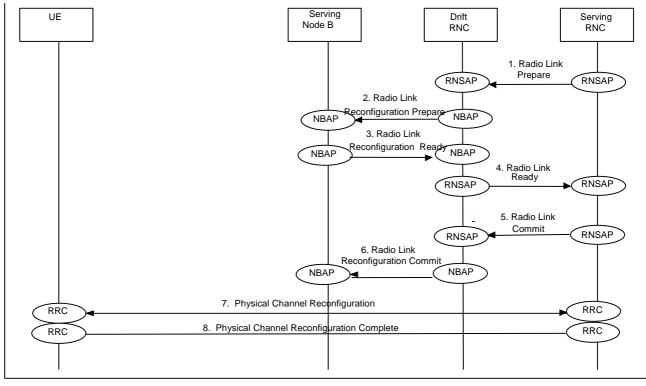


Figure 26b: Intra-Node B synchronised serving HS-DSCH cell change

- The SRNC decides there is a need for a serving HS-DSCH cell change and prepares a RNSAP message Radio Link Reconfiguration Prepare which is transmitted to the DRNC. Parameters: HS-DSCH information and a SRNC selected HS-PDSCH RL ID.
- 2. In this case, both the source and target HS-DSCH cells are controlled by the same Node B. The DRNC requests the serving HS-DSCH Node B to perform a synchronised radio link reconfiguration using the NBAP message Radio Link Reconfiguration Prepare. The reconfiguration comprises a transfer of the HS-DSCH resources from the source HS-DSCH radio link to the target HS-DSCH radio link. Parameters: HS-DSCH Information, a DRNC selected HS-DSCH RNTI and the HS-PDSCH RL ID.
- 3. The serving HS-DSCH Node B returns a NBAP message **Radio Link Reconfiguration Ready**. Parameters: HS-DSCH Information Response.
- 4. The DRNC returns a RNSAP message **Radio Link Reconfiguration Ready** to the SRNC. Parameters: HS-DSCH Information Response and the DRNC selected HS-DSCH-RNTI.
- 5. The SRNC now proceeds by transmitting RNSAP message **Radio Link Reconfiguration Commit** to the DRNC. Parameters: SRNC selected activation time in the form of a CFN.
- 6. The DRNC transmits a NBAP message Radio Link Reconfiguration Commit to the serving HS-DSCH Node B. At the indicated activation time the serving HS-DSCH Node B stops HS-DSCH transmission to the UE in the source HS-DSCH cell and starts HS-DSCH transmission to the UE in the target HS-DSCH cell. Parameters: SRNC selected activation time in the form of a CFN.
- The SRNC transmits a RRC message Physical Channel Reconfiguration to the UE. Parameters: activation time, MAC-hs reset indicator, serving HS-DSCH radio link indicator, HS-SCCH set info and H-RNTI.
- 8. At the indicated activation time the UE, stops receiving HS-DSCH in the source HS-DSCH cell and starts HS-DSCH reception in the target HS-DSCH cell. The UE then returns a RRC message **Physical Channel Reconfiguration Complete** to the SRNC.

7.10.5.2 Inter-Node B (intra DRNC) synchronised serving HS-DSCH cell change

This subclause shows an ATM example of an inter-Node B serving HS-DSCH cell change while keeping the dedicated physical channel configuration and active set.

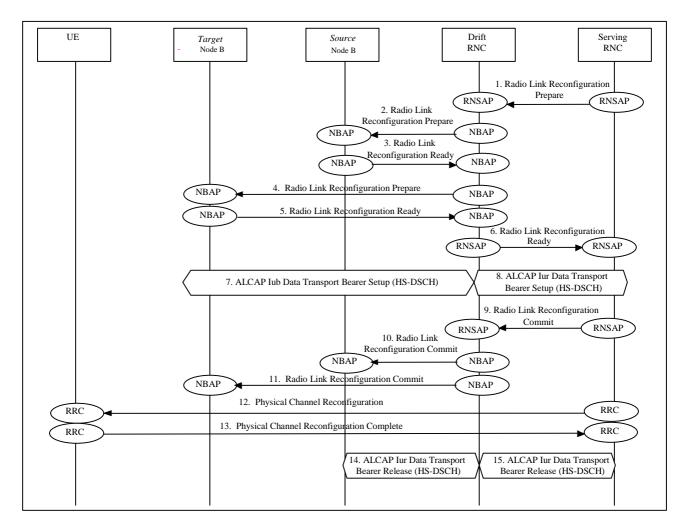


Figure 26c: Inter-Node B (intra-DRNC) synchronised serving HS-DSCH cell change

- The SRNC decides there is a need for a serving HS-DSCH cell change and prepares the RNSAP message a Radio Link Reconfiguration Prepare which is transmitted to the DRNC. Parameters: HS-DSCH Information and a SRNC selected HS-PDSCH RL ID.
- In this case, the source and target HS-DSCH cells are controlled by different Node Bs. The DRNC requests the source HS-DSCH Node B to perform a synchronised radio link reconfiguration using the NBAP message Radio Link Reconfiguration Prepare, removing its HS-DSCH resources for the source HS-DSCH radio link Parameters: HS-DSCH Information, a DRNC selected HS-DSCH RNTI and the HS-PDSCH RL ID.
- 3. The source HS-DSCH Node B returns a NBAP message **Radio Link Reconfiguration Ready**. Parameters: HS-DSCH Information Response.
- 4. The DRNC requests the target HS-DSCH Node B to perform a synchronised radio link reconfiguration using the NBAP message Radio Link Reconfiguration Prepare, adding HS-DSCH resources for the target HS-DSCH radio link. Parameters: HS-DSCH Information, a DRNC selected HS-DSCH RNTI and the HS-PDSCH RL ID.
- 5. The target HS-DSCH Node B returns the NBAP message **Radio Link Reconfiguration Ready**. Parameters: HS-DSCH Information Response.
- 6. The DRNC returns the RNSAP message **Radio Link Reconfiguration Ready** to the SRNC. Parameters: HS-DSCH Information Response and the DRNC selected HS-DSCH-RNTI.
- 7. The DRNC initiates set-up of a new Iub Data Transport Bearers using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to the HS-DSCH.
- 8. The SRNC initiates set-up of a new Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the HS-DSCH.

- 9. The HS-DSCH transport bearer to the target HS-DSCH Node B is established. The SRNC proceeds by transmitting the RNSAP message **Radio Link Reconfiguration Commit** to the DRNC. Parameters: SRNC selected activation time in the form of a CFN.
- 10. The DRNC transmits the NBAP message **Radio Link Reconfiguration Commit** to the source HS-DSCH Node B including the activation time. At the indicated activation time the source HS-DSCH Node B stops and the target HS-DSCH Node B starts transmitting on the HS-DSCH to the UE. Parameters: SRNC selected activation time in the form of a CFN.
- 11. The DRNC transmits the NBAP message **Radio Link Reconfiguration Commit** to the target HS-DSCH Node B including the activation time. At the indicated activation time the source HS-DSCH Node B stops and the target HS-DSCH Node B starts transmitting on the HS-DSCH to the UE. Parameters: SRNC selected activation time in form of a CFN.
- 12. The SRNC also transmits a RRC message **Physical Channel Reconfiguration** to the UE. Parameters: activation time, MAC-hs reset indicator, serving HS-DSCH radio link indicator, HS-SCCH set info and H-RNTI.
- 13. At the indicated activation time the UE stops receiving HS-DSCH in the source HS-DSCH cell and starts HS-DSCH reception in the target HS-DSCH cell. The UE returns a RRC message **Physical Channel Reconfiguration Complete** to the SRNC.
- 14. The DRNC initiates release of the old Iub Data Transport bearer using ALCAP protocol.

The SRNC initiates release of the old Iur Data Transport bearer using ALCAP protocol.

7.11 Hard Handover

This subclause presents some examples of hard handover procedures. These procedures are for both dedicated and common channels and may be applied in the following cases:

- intra-frequency Hard Handover (TDD mode);
- inter-frequency Hard Handover (FDD and TDD mode).

7.11.1 Backward Hard Handover

This subclause shows some examples of hard handover in the case of network initiated backward handovers.

7.11.1.1 Hard Handover via lur (DCH State)

This subclause shows an example of Hard Handover via Iur, when the mobile is in DCH state, for both successful and unsuccessful cases. The text enclosed in brackets refers to the case when the UE has a DSCH<u>(TDD)</u>.

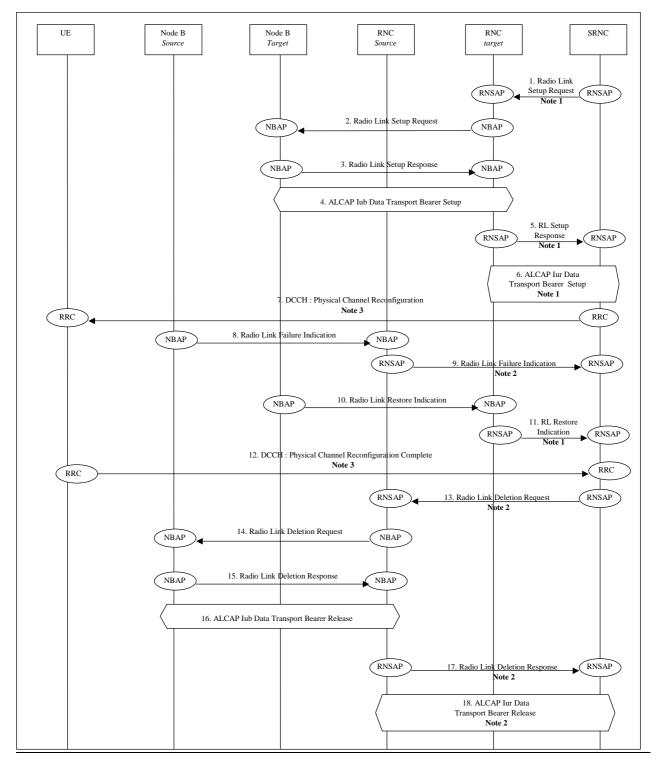


Figure 27: Hard Handover via lur (DCH on lur) – successful case

- SRNC sends Radio Link Setup Request message to the target RNC. Parameters: target RNC identifier, s-RNTI, Cell id, Transport Format Set, Transport Format Combination Set, [DSCH information (TDD only)]. (see note 1).
- The target RNC allocates RNTI and radio resources for the RRC connection and the Radio Link(s) (if possible), and sends the NBAP message Radio Link Setup Request to the target Node-B.
 Parameters: Cell id, Transport Format Set, Transport Format Combination Set, frequency, UL scrambling code (FDD only), Time Slots (TDD only), User Codes (TDD only), Power control information, [PDSCH code-mapping (FDD only); TFCI2 bearer specific information (FDD only); TFCI signalling mode set to "Hard Split" (FDD only); DSCH information (TDD only)] etc.

3. Node B allocates resources, starts PHY reception, and responds with NBAP message **Radio Link Setup Response**.

Parameters: Signalling link termination, Transport layer addressing information for the Iub Data Transport Bearer, [DSCH information response, TFCI2 bearer information response (FDD-TDD only).].

- 4. Target RNC initiates set-up of Iub Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to the DCH. The request for set-up of Iub Data Transport bearer is acknowledged by Node B. [A separate transport bearer is established for the DSCH. <u>Another-transport bearer is established for the TFCI2 signalling information (FDD-only).</u>]
- 5. When the Target RNC has completed preparation phase, **Radio Link Setup Response** is sent to the SRNC (see note 1). [The message includes the DSCH information parameter.(TDD only).]
- 6. SRNC initiates set-up of Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the DCH. The request for set-up of Iur Data Transport bearer is acknowledged by Target RNC (see note 1). [A separate transport bearer is established for the DSCH_ (TDD only).]
- 7. SRNC sends a RRC message Physical Channel Reconfiguration to the UE.
- 8. When the UE switches from the old RL to the new RL, the source Node B detects a failure on its RL and sends a NBAP message **Radio Link Failure Indication** to the source RNC.
- 9. The source RNC sends a RNSAP message Radio Link Failure Indication to the SRNC (see note 2).
- 10. Target Node B achieves uplink sync on the Uu and notifies target RNC with NBAP message **Radio Link Restore Indication**.
- 11. Target RNC sends RNSAP message **Radio Link Restore Indication** to notify SRNC (see note 2) that uplink sync has been achieved on the Uu.
- 12. When the RRC connection is established with the target RNC and necessary radio resources have been allocated, the UE sends RRC message **Physical Channel Reconfiguration Complete** to the SRNC.
- 13. The SRNC sends a RNSAP message Radio Link Deletion Request to the source RNC (see note 2).
- 14. The source RNC sends NBAP message **Radio Link Deletion Request** to the source Node B. Parameters: Cell id, Transport layer addressing information.
- 15. The source Node B de-allocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
- 16. The source RNC initiates release of Iub Data Transport bearer using ALCAP protocol. [The DSCH transport bearer and the TFCI2 bearer (FDD only) are is released as well (TDD only).]
- 17. When the source RNC has completed the release the RNSAP message Radio Link Deletion Response is sent to the SRNC (see note 2).
- 18. SRNC initiates release of Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the DCH. The request for release of Iur Data Transport bearer is acknowledged by the Source RNC (see note 2). [The DSCH transport bearer is also released (TDD only).]
- NOTE 1: This message is not necessary when the target RNC is the SRNC.
- NOTE 2: This message is not necessary when the source RNC is the SRNC.
- NOTE 3: The messages used are only one example of the various messages which can be used to trigger a handover, to confirm it or to indicate the handover failure. The different possibilities are specified in the RRC specification (25.331), subclause 8.3.5.2.

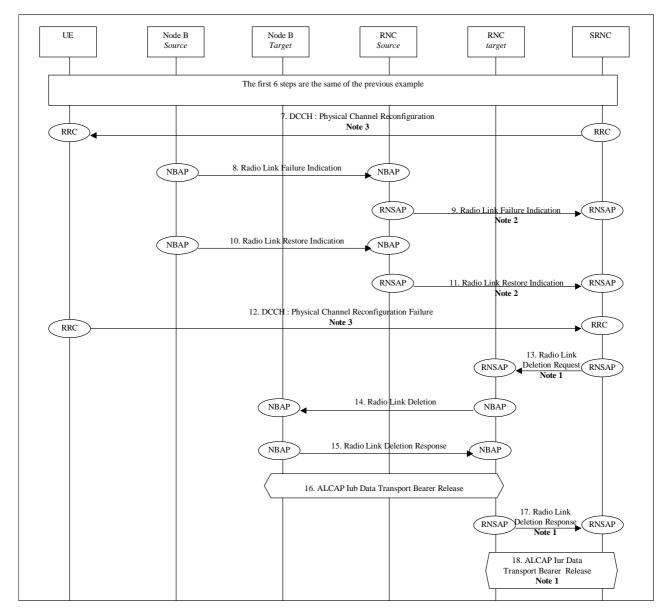


Figure 28: Hard Handover via lur (DCH on lur) – unsuccessful case.

The first 6 steps are the same of the previous example.

- 7. SRNC sends a RRC message Physical Channel Reconfiguration to the UE.
- 8. When the UE switch from the old RL to the new RL, the source Node B detect a failure on its RL and send a NBAP message **Radio Link Failure Indication** to the source RNC.
- 9. The SRNC sends a RNSAP message Radio Link Failure Indication to the source RNC (see note 2).
- 10. UE cannot access the target cell and switch back to the old one. The source Node B detects a RL restoration and send a NBAP message **Radio Link Restoration Indication** to the source RNC.
- 11. The SRNC sends a RNSAP message Radio Link Restoration Indication to the source RNC (see note 2).
- 12. When the RRC connection is re-established with the source RNC the UE sends RRC message **Physical Channel Reconfiguration Failure** to the SRNC.
- 13. The SRNC sends a RNSAP message **Radio Link Deletion Request** to the target RNC (see note 1).
- 14. The target RNC sends NBAP message **Radio Link Deletion Request** to the target Node B. Parameters: Cell id, Transport layer addressing information.

- 15. The target Node B de-allocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
- 16. The target RNC initiates release of Iub Data Transport bearer using ALCAP protocol. [The DSCH transport bearer and the TFCI2 bearer (FDD only) areis released as well (TDD only).]
- 17. When the target RNC has completed the release the RNSAP message **Radio Link Deletion Response** is sent to the SRNC (see note 1).
- 18. SRNC initiates release of Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the DCH. The Target RNC acknowledges the request for release of Iur Data Transport bearer (see note 1). [The DSCH transport bearer is also released (TDD only).]
- NOTE 1: This message is not necessary when the target RNC is the SRNC.
- NOTE 2: This message is not necessary when the source RNC is the SRNC.
- NOTE 3: The messages used are only one example of the various messages which can be used to trigger a handover, to confirm it or to indicate the handover failure. The different possibilities are specified in the RRC specification (25.331), clause 8.3.5.2.

3GPP TSG-RAN WG3 #47

ж**R3-050742**

Athens, Greece, 9 th – 13 th May 2005						
CHANGE REQUEST						
¥	25.931	CR 038	жrev	∎ Ж Curre	nt version:	<mark>6.1.0</mark> [≆]
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.						
Proposed change affects: UICC apps# ME Radio Access Network X Core Network						
Title: ೫	Feature clean up: removal of DSCH (FDD mode)					
Source: भ	RAN3					
Work item code: Ж	TEI5			D	ate: ೫ 09/0	05/2005
Category: ℜ Reason for change Summary of chang	C Use <u>one</u> of F (cor B (add C (fun D (edi Detailed ex be found in	H feature for FDE	ection in an earli of feature) ove categories was decide to D has been rer	Relea Use F er release) F F F can F F can F F remove DSCH	ase: # REL one of the fol 296 (GSM 296 (Relea 297 (Relea 299 (Relea 299 (Relea 201-5 (Relea 201-6 (Relea 201-6 (Relea 201-6 (Relea 201-7 (Relea 201-7 (Relea 201-7 (Relea	6 lowing releases: Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4) ase 5) ase 6) ase 6) ase 7)
Consequences if not approved: # TR25.931 will contain a feature that doesn't exist anymore.						
Clauses affected:	<mark>೫ 7.10</mark>	; 7.11				
Other specs	ж <mark>Х</mark>	Other core spec	ifications	25.302, 25 25.401, 25	.303, 25.306 .402, 25.420	, 25.214, 25.301, , 25.321, 25.331, , 25.423, 25.424, , 25.433, 25.434,
affected:	X X	Test specificatio O&M Specificati		34.108, 34	.123	

How to create CRs using this form:

Other comments: %

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

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

7.10 Soft Handover (FDD)

This subclause presents some examples of soft handover procedures. The following cases are considered:

- Radio Link Addition (Branch Addition);
- Radio link Deletion (Branch Deletion);
- Radio link Addition & Deletion (Branch Addition & Deletion simultaneously).
- DSCH mobility procedure in Soft Handover (moving DSCH within the active set).

Soft Handover applies only to FDD mode.

7.10.1 Radio Link Addition (Branch Addition)

This example shows establishment of a radio link via a Node B controlled by another RNC than the serving RNC. This is the first radio link to be established via this RNS, thus macro-diversity combining/splitting with already existing radio links within DRNS is not possible.

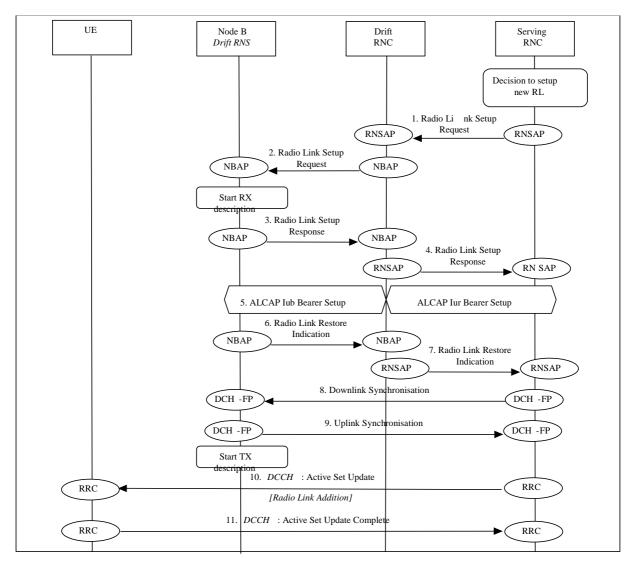


Figure 24: Soft Handover - Radio Link Addition (Branch Addition)

1. SRNC decides to setup a radio link via a new cell controlled by another RNC. SRNC requests DRNC for radio resources by sending RNSAP message **Radio Link Setup Request**. If this is the first radio link via the DRNC for this UE, a new Iur signalling connection is established. This Iur signalling connection will be used for all RNSAP signalling related to this UE.

Parameters: Cell id, Transport Format Set per DCH, Transport Format Combination Set, frequency, UL scrambling code.

- If requested resources are available, DRNC sends NBAP message Radio Link Setup Request to Node B. Parameters: Cell id, Transport Format Set per DCH, Transport Format Combination Set, frequency, UL scrambling code. Then Node B starts the UL reception.
- 3. Node B allocates requested resources. Successful outcome is reported in NBAP message **Radio Link Setup Response**.

Parameters: Signalling link termination, Transport layer addressing information (AAL2 address, AAL2 Binding Identitie(s)) for Data Transport Bearer(s).

 DRNC sends RNSAP message Radio Link Setup Response to SRNC. Parameters: Transport layer addressing information (AAL2 address, AAL2 Binding Identity) for Data Transport Bearer(s), Neighbouring cell information.

- SRNC initiates setup of Iur/Iub Data Transport Bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to DCH. This may be repeated for each Iur/Iub Data Transport Bearer to be setup.
- 6./7. Node B achieves uplink sync on the Uu and notifies DRNC with NBAP message **Radio Link Restore Indication**. In its turn DRNC notifies SRNC with RNSAP message **Radio Link Restore Indication**.
- 8./9. Node B and SRNC establish synchronism for the Data Transport Bearer(s) by means of exchange of the appropriate DCH Frame Protocol frames **Downlink Synchronisation** and **Uplink Synchronisation**, relative already existing radio link(s). Then Node B starts DL transmission.
- 10. SRNC sends RRC message Active Set Update (Radio Link Addition) to UE on DCCH. Parameters: Update type, Cell id, DL scrambling code, Power control information, Ncell information.
- 11. UE acknowledges with RRC message Active Set Update Complete.
- NOTE: The order of transmission of **Radio Link Restore Indication** messages (steps 6 and 7) is not necessarily identical to that shown in the example. These messages could be sent before the ALCAP bearer setup (step 5) or after the transport bearer synchronisation (steps 8 and 9).

7.10.2 Radio link Deletion (Branch Deletion)

This example shows deletion of a radio link belonging to a Node B controlled by another RNC than the serving RNC.

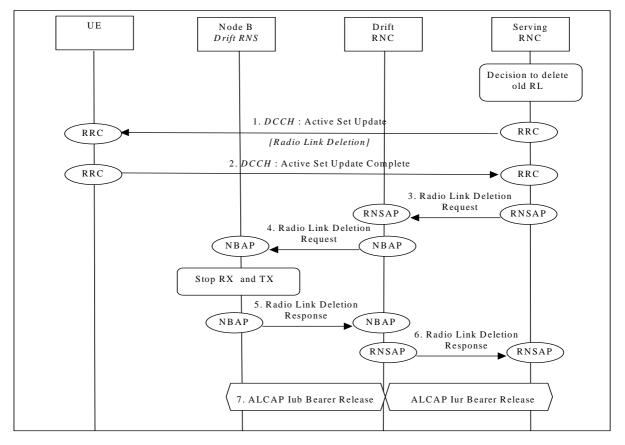


Figure 25: Soft Handover - Radio Link Deletion (Branch Deletion)

- SRNC decides to remove a radio link via an old cell controlled by another RNC. SRNC sends RRC message Active Set Update (Radio Link Deletion) to UE on DCCH. Parameters: Update type, Cell id.
- 2. UE deactivates DL reception via old branch, and acknowledges with RRC message Active Set Update Complete.

- SRNC requests DRNC to deallocate radio resources by sending RNSAP message Radio Link Deletion Request. Parameters: Cell id, Transport layer addressing information.
- 4. DRNC sends NBAP message **Radio Link Deletion Request** to Node B. Parameters: Cell id, Transport layer addressing information.
- 5. Node B deallocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
- 6. DRNC sends RNSAP message Radio Link Deletion Response to SRNC.
- 7. SRNC initiates release of Iur/Iub Data Transport Bearer using ALCAP protocol.

7.10.3 Radio link Addition & Deletion (Branch Addition & Deletion - simultaneously)

This example shows simultaneous deletion of a radio link belonging to a Node B controlled by the serving RNC and the establishment of a radio link via a Node B controlled by another RNC than the serving RNC. This is the first radio link to be established via this RNS, thus macro-diversity combining/splitting with already existing radio links within DRNS is not possible.

This procedure is needed when the maximum number of branches allowed for the macrodiversity set has already been reached.

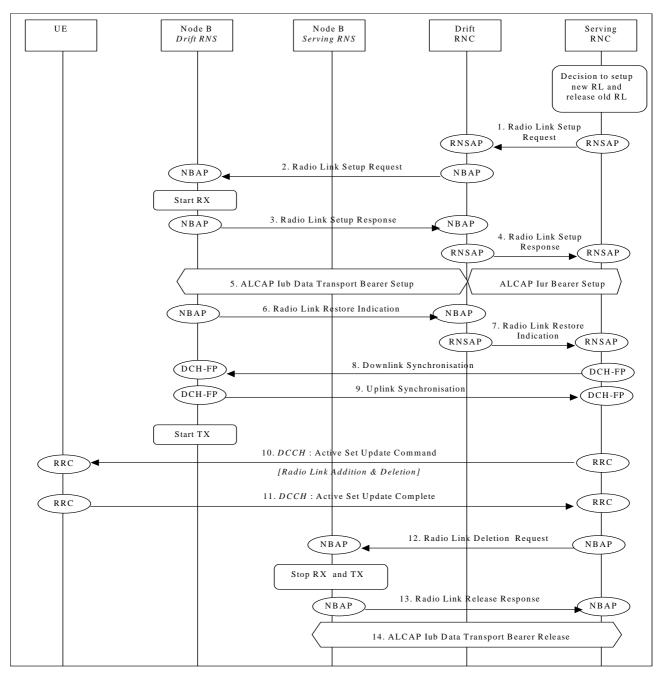


Figure 26: Soft Handover - Radio link Addition & Deletion (Branch Addition & Deletion - simultaneously)

- 1. \Rightarrow 9. See description 1. \Rightarrow 9. in subclause 7.10.1.
- 10. SRNC sends RRC message Active Set Update (Radio Link Addition & Deletion) to UE on DCCH. Parameters: Update type, Cell id, DL scrambling code, Power control information, Ncell information.
- 11. UE deactivates DL reception via old branch, activates DL reception via new branch and acknowledges with RRC message **Active Set Update Complete**.
- 12. \Rightarrow 14. See description 3. \Rightarrow 7. in subclause 7.10.2.

7.10.4 DSCH Mobility Procedure in Soft Handover (Moving DSCH within the Active Set)Void

<u>Void</u>. This example shows how DSCH can be moved from one radio link to another in the case where UE is inmacrodiversity on the associated DCH. At the beginning of this example the UE has: -one radio link to a Node B controlled by the Serving RNC, and

-one radio link to a Node B controlled by another RNC than the Serving RNC.

The former radio link carries both a DCH and a DSCH, whereas the latter carries a DCH only. They are referred to as *source DSCH radio link* and *target DSCH radio link*, respectively.

Initially, the TFCI (sent on the DCH) is in macrodiversity. The TFCI2 field is carried over Iub and Iur over the same transport bearers as the associated DCH.

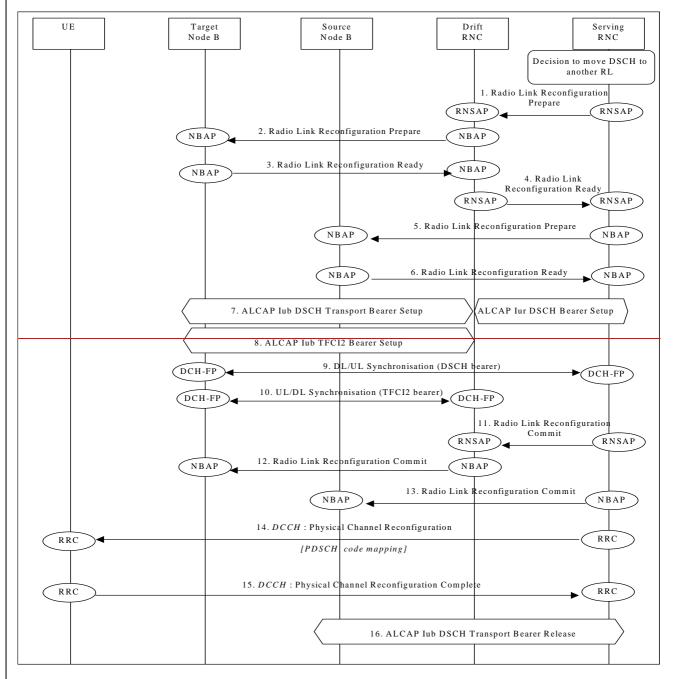


Figure 26a: DSCH mobility procedure in Soft Handover --- (moving DSCH within the active set)

1.SRNC decides to move the DSCH to the cell controlled by the DRNS i.e. to the target DSCH radio link. SRNCsends RNSAP message **Radio Link Reconfiguration Prepare** to DRNC. Parameters: new PDSCH RL ID.

2.DRNC requests from target Node B to perform synchronised radio link reconfiguration using the **Radio Link Reconfiguration Prepare** message, adding DSCH resources on the target DSCH radio link. Parameters: new PDSCH RL ID, Transport Bearer Request Indicator; TFCI2 bearer specific information; TFCI signalling modeset to "Hard Split".

- 3. Target Node B returns Radio Link Reconfiguration Ready message to DRNC. Parameters: DSCH informationresponse (Transport Layer Address; Binding ID); TFCI2 bearer information response (Transport Layer-Address; Binding ID).
- 4.DRNC returns a **Radio Link Reconfiguration Ready** message to SRNC. Parameters: DSCH flow controlinformation; PDSCH code mapping; Transport Layer Address, Binding ID.
- 5.SRNC requests from Source Node B to perform synchronised radio link reconfiguration using the **Radio Link Reconfiguration Prepare** message, removing DSCH resources from the source DSCH radio link. Parameters: new PDSCH RL ID, TFCI Signalling Mode set to "Hard Split".

6.Source Node B returns Radio Link Reconfiguration Ready message to SRNC.

7. Transport bearer for the DSCH is setup on Iur and Iub.

8. Transport bearer for the TFCI2 is setup on Iub.

- 9.DCH synchronisation procedure is carried out on the DSCH bearer, between SRNC and target Node B.
- 10.DL transport channels synchronisation procedure is carried out on the TFCI2 bearer, between DRNC and target Node B.
- 11–13.Exchange of **Radio Link Reconfiguration Commit** messages indicating the CFN at which the DSCH should be moved from the source DSCH radio link to the target DSCH radio link.
- 14.SRNC sends **Physical Channel Reconfiguration** message to UE indicating that the PDSCH channel has been moved to the target DSCH radio link. The source DSCH radio link is not deleted, however the TFCI field is not in macrodiversity anymore. Parameters: Activation time; PDSCH code mapping; PDSCH with SHO DCH Info. The latter parameter indicates that the UE must not soft combine the TFCI because the TFCI signalling mode is set to "Hard Split".
- 15.At the indicated time UE stops receiving DSCH on the source DSCH radio link and starts reception on the target DSCH radio link. The UE returns a **Physical Channel Reconfiguration Complete** message to SRNC.
- 16.The Iub Transport bearer for the DSCH is released towards the source Node B. Note that there was no TFCI2bearer on the source DSCH radio link.

7.10.5 HS-DSCH Mobility Procedures

7.10.5.1 Intra-Node B synchronised serving HS-DSCH cell change

This subclause shows an example of an intra-Node B serving HS-DSCH cell change while keeping the dedicated physical channel configuration and the active set.

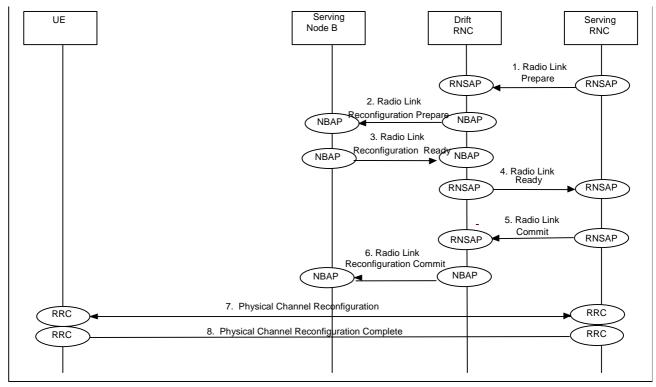


Figure 26b: Intra-Node B synchronised serving HS-DSCH cell change

- The SRNC decides there is a need for a serving HS-DSCH cell change and prepares a RNSAP message Radio Link Reconfiguration Prepare which is transmitted to the DRNC. Parameters: HS-DSCH information and a SRNC selected HS-PDSCH RL ID.
- 2. In this case, both the source and target HS-DSCH cells are controlled by the same Node B. The DRNC requests the serving HS-DSCH Node B to perform a synchronised radio link reconfiguration using the NBAP message Radio Link Reconfiguration Prepare. The reconfiguration comprises a transfer of the HS-DSCH resources from the source HS-DSCH radio link to the target HS-DSCH radio link. Parameters: HS-DSCH Information, a DRNC selected HS-DSCH RNTI and the HS-PDSCH RL ID.
- 3. The serving HS-DSCH Node B returns a NBAP message **Radio Link Reconfiguration Ready**. Parameters: HS-DSCH Information Response.
- 4. The DRNC returns a RNSAP message **Radio Link Reconfiguration Ready** to the SRNC. Parameters: HS-DSCH Information Response and the DRNC selected HS-DSCH-RNTI.
- 5. The SRNC now proceeds by transmitting RNSAP message **Radio Link Reconfiguration Commit** to the DRNC. Parameters: SRNC selected activation time in the form of a CFN.
- 6. The DRNC transmits a NBAP message Radio Link Reconfiguration Commit to the serving HS-DSCH Node B. At the indicated activation time the serving HS-DSCH Node B stops HS-DSCH transmission to the UE in the source HS-DSCH cell and starts HS-DSCH transmission to the UE in the target HS-DSCH cell. Parameters: SRNC selected activation time in the form of a CFN.
- The SRNC transmits a RRC message Physical Channel Reconfiguration to the UE. Parameters: activation time, MAC-hs reset indicator, serving HS-DSCH radio link indicator, HS-SCCH set info and H-RNTI.
- 8. At the indicated activation time the UE, stops receiving HS-DSCH in the source HS-DSCH cell and starts HS-DSCH reception in the target HS-DSCH cell. The UE then returns a RRC message **Physical Channel Reconfiguration Complete** to the SRNC.

7.10.5.2 Inter-Node B (intra DRNC) synchronised serving HS-DSCH cell change

This subclause shows an ATM example of an inter-Node B serving HS-DSCH cell change while keeping the dedicated physical channel configuration and active set.

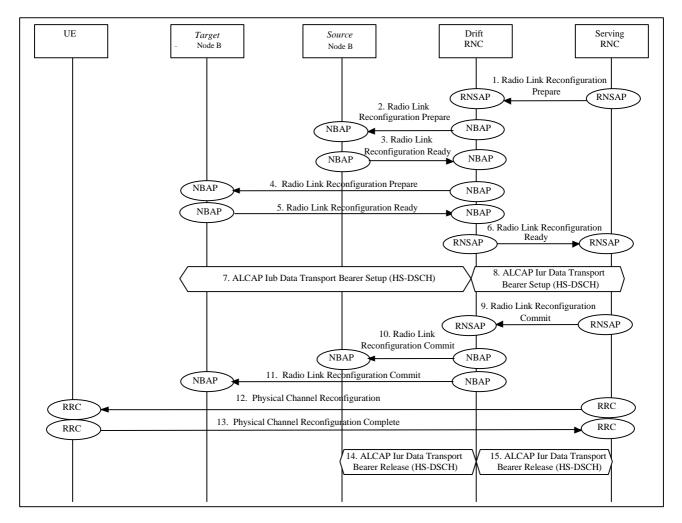


Figure 26c: Inter-Node B (intra-DRNC) synchronised serving HS-DSCH cell change

- The SRNC decides there is a need for a serving HS-DSCH cell change and prepares the RNSAP message a Radio Link Reconfiguration Prepare which is transmitted to the DRNC. Parameters: HS-DSCH Information and a SRNC selected HS-PDSCH RL ID.
- 2. In this case, the source and target HS-DSCH cells are controlled by different Node Bs. The DRNC requests the source HS-DSCH Node B to perform a synchronised radio link reconfiguration using the NBAP message Radio Link Reconfiguration Prepare, removing its HS-DSCH resources for the source HS-DSCH radio link Parameters: HS-DSCH Information, a DRNC selected HS-DSCH RNTI and the HS-PDSCH RL ID.
- 3. The source HS-DSCH Node B returns a NBAP message **Radio Link Reconfiguration Ready**. Parameters: HS-DSCH Information Response.
- 4. The DRNC requests the target HS-DSCH Node B to perform a synchronised radio link reconfiguration using the NBAP message **Radio Link Reconfiguration Prepare**, adding HS-DSCH resources for the target HS-DSCH radio link.

Parameters: HS-DSCH Information, a DRNC selected HS-DSCH RNTI and the HS-PDSCH RL ID.

5. The target HS-DSCH Node B returns the NBAP message **Radio Link Reconfiguration Ready**. Parameters: HS-DSCH Information Response.

- 7. The DRNC initiates set-up of a new Iub Data Transport Bearers using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to the HS-DSCH.
- 8. The SRNC initiates set-up of a new Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the HS-DSCH.
- 9. The HS-DSCH transport bearer to the target HS-DSCH Node B is established. The SRNC proceeds by transmitting the RNSAP message **Radio Link Reconfiguration Commit** to the DRNC. Parameters: SRNC selected activation time in the form of a CFN.
- 10. The DRNC transmits the NBAP message Radio Link Reconfiguration Commit to the source HS-DSCH Node B including the activation time. At the indicated activation time the source HS-DSCH Node B stops and the target HS-DSCH Node B starts transmitting on the HS-DSCH to the UE. Parameters: SRNC selected activation time in the form of a CFN.
- 11. The DRNC transmits the NBAP message **Radio Link Reconfiguration Commit** to the target HS-DSCH Node B including the activation time. At the indicated activation time the source HS-DSCH Node B stops and the target HS-DSCH Node B starts transmitting on the HS-DSCH to the UE. Parameters: SRNC selected activation time in form of a CFN.
- 12. The SRNC also transmits a RRC message **Physical Channel Reconfiguration** to the UE. Parameters: activation time, MAC-hs reset indicator, serving HS-DSCH radio link indicator, HS-SCCH set info and H-RNTI.
- 13. At the indicated activation time the UE stops receiving HS-DSCH in the source HS-DSCH cell and starts HS-DSCH reception in the target HS-DSCH cell. The UE returns a RRC message **Physical Channel Reconfiguration Complete** to the SRNC.
- 14. The DRNC initiates release of the old Iub Data Transport bearer using ALCAP protocol.

The SRNC initiates release of the old Iur Data Transport bearer using ALCAP protocol.

7.11 Hard Handover

This subclause presents some examples of hard handover procedures. These procedures are for both dedicated and common channels and may be applied in the following cases:

- intra-frequency Hard Handover (TDD mode);
- inter-frequency Hard Handover (FDD and TDD mode).

7.11.1 Backward Hard Handover

This subclause shows some examples of hard handover in the case of network initiated backward handovers.

7.11.1.1 Hard Handover via lur (DCH State)

This subclause shows an example of Hard Handover via Iur, when the mobile is in DCH state, for both successful and unsuccessful cases. The text enclosed in brackets refers to the case when the UE has a DSCH (TDD).

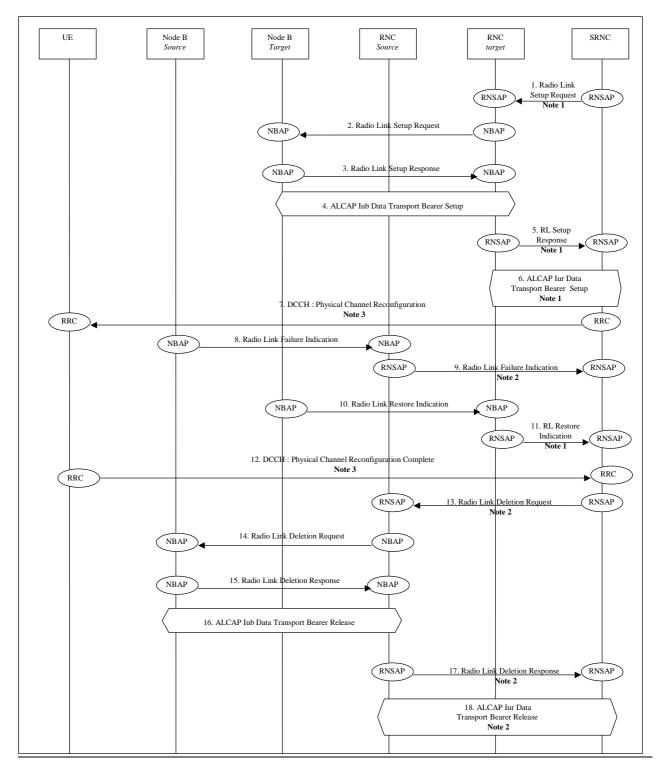


Figure 27: Hard Handover via lur (DCH on lur) – successful case

- SRNC sends Radio Link Setup Request message to the target RNC. Parameters: target RNC identifier, s-RNTI, Cell id, Transport Format Set, Transport Format Combination Set, [DSCH information (TDD only)]. (see note 1).
- The target RNC allocates RNTI and radio resources for the RRC connection and the Radio Link(s) (if possible), and sends the NBAP message Radio Link Setup Request to the target Node-B.
 Parameters: Cell id, Transport Format Set, Transport Format Combination Set, frequency, UL scrambling code (FDD only), Time Slots (TDD only), User Codes (TDD only), Power control information, [PDSCH code-

mapping (FDD only); TFCI2 bearer specific information (FDD only); TFCI signalling mode set to "Hard Split" (FDD only); DSCH information (TDD only)] etc.

3. Node B allocates resources, starts PHY reception, and responds with NBAP message **Radio Link Setup Response**.

Parameters: Signalling link termination, Transport layer addressing information for the Iub Data Transport Bearer, [DSCH information response, TFCI2 bearer information response (FDD TDD only).].

- 4. Target RNC initiates set-up of Iub Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iub Data Transport Bearer to the DCH. The request for set-up of Iub Data Transport bearer is acknowledged by Node B. [A separate transport bearer is established for the DSCH. Another-transport bearer is established for the TFCI2 signalling information (FDD only).]
- 5. When the Target RNC has completed preparation phase, **Radio Link Setup Response** is sent to the SRNC (see note 1). [The message includes the DSCH information parameter (TDD only).]
- 6. SRNC initiates set-up of Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the DCH. The request for set-up of Iur Data Transport bearer is acknowledged by Target RNC (see note 1). [A separate transport bearer is established for the DSCH_(TDD only).]
- 7. SRNC sends a RRC message Physical Channel Reconfiguration to the UE.
- 8. When the UE switches from the old RL to the new RL, the source Node B detects a failure on its RL and sends a NBAP message **Radio Link Failure Indication** to the source RNC.
- 9. The source RNC sends a RNSAP message Radio Link Failure Indication to the SRNC (see note 2).
- 10. Target Node B achieves uplink sync on the Uu and notifies target RNC with NBAP message **Radio Link Restore Indication**.
- 11. Target RNC sends RNSAP message **Radio Link Restore Indication** to notify SRNC (see note 2) that uplink sync has been achieved on the Uu.
- 12. When the RRC connection is established with the target RNC and necessary radio resources have been allocated, the UE sends RRC message **Physical Channel Reconfiguration Complete** to the SRNC.
- 13. The SRNC sends a RNSAP message Radio Link Deletion Request to the source RNC (see note 2).
- 14. The source RNC sends NBAP message **Radio Link Deletion Request** to the source Node B. Parameters: Cell id, Transport layer addressing information.
- 15. The source Node B de-allocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
- 16. The source RNC initiates release of Iub Data Transport bearer using ALCAP protocol. [The DSCH transport bearer and the TFCI2 bearer (FDD only) are is released as well (TDD only).]
- 17. When the source RNC has completed the release the RNSAP message Radio Link Deletion Response is sent to the SRNC (see note 2).
- 18. SRNC initiates release of Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the DCH. The request for release of Iur Data Transport bearer is acknowledged by the Source RNC (see note 2). [The DSCH transport bearer is also released (TDD only).]
- NOTE 1: This message is not necessary when the target RNC is the SRNC.
- NOTE 2: This message is not necessary when the source RNC is the SRNC.
- NOTE 3: The messages used are only one example of the various messages which can be used to trigger a handover, to confirm it or to indicate the handover failure. The different possibilities are specified in the RRC specification (25.331), subclause 8.3.5.2.

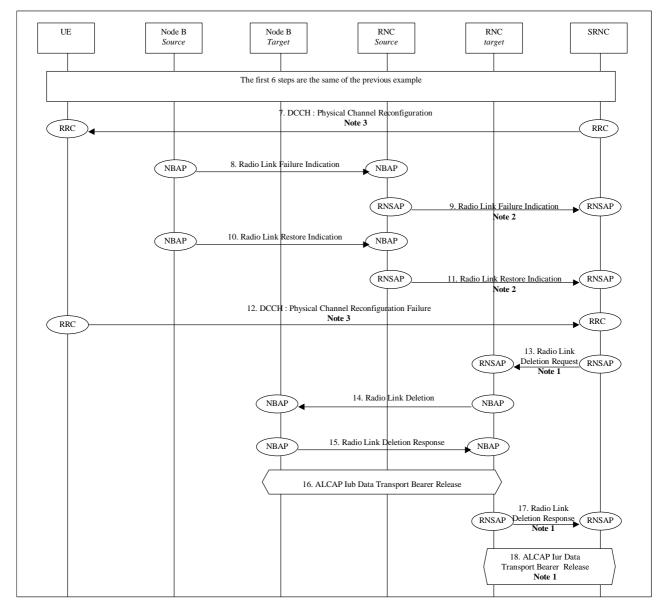


Figure 28: Hard Handover via lur (DCH on lur) – unsuccessful case.

The first 6 steps are the same of the previous example.

- 7. SRNC sends a RRC message **Physical Channel Reconfiguration** to the UE.
- 8. When the UE switch from the old RL to the new RL, the source Node B detect a failure on its RL and send a NBAP message **Radio Link Failure Indication** to the source RNC.
- 9. The SRNC sends a RNSAP message Radio Link Failure Indication to the source RNC (see note 2).
- 10. UE cannot access the target cell and switch back to the old one. The source Node B detects a RL restoration and send a NBAP message **Radio Link Restoration Indication** to the source RNC.
- 11. The SRNC sends a RNSAP message Radio Link Restoration Indication to the source RNC (see note 2).
- 12. When the RRC connection is re-established with the source RNC the UE sends RRC message **Physical Channel Reconfiguration Failure** to the SRNC.
- 13. The SRNC sends a RNSAP message Radio Link Deletion Request to the target RNC (see note 1).

- 14. The target RNC sends NBAP message **Radio Link Deletion Request** to the target Node B. Parameters: Cell id, Transport layer addressing information.
- 15. The target Node B de-allocates radio resources. Successful outcome is reported in NBAP message **Radio Link Deletion Response**.
- 16. The target RNC initiates release of Iub Data Transport bearer using ALCAP protocol. [The DSCH transport bearer and the TFCI2 bearer (FDD only) areis released as well (TDD only).]
- 17. When the target RNC has completed the release the RNSAP message **Radio Link Deletion Response** is sent to the SRNC (see note 1).
- 18. SRNC initiates release of Iur Data Transport bearer using ALCAP protocol. This request contains the AAL2 Binding Identity to bind the Iur Data Transport Bearer to the DCH. The Target RNC acknowledges the request for release of Iur Data Transport bearer (see note 1). [The DSCH transport bearer is also released (TDD only).]
- NOTE 1: This message is not necessary when the target RNC is the SRNC.
- NOTE 2: This message is not necessary when the source RNC is the SRNC.
- NOTE 3: The messages used are only one example of the various messages which can be used to trigger a handover, to confirm it or to indicate the handover failure. The different possibilities are specified in the RRC specification (25.331), clause 8.3.5.2.