TSGRP#12(01) 0379

TSG-RAN Meeting #12 Stockholm, Sweden, 12 - 15 June 2001

Title: Agreed CRs to TS 25.423

Source: TSG-RAN WG3

Agenda item: 8.3.3/8.3.4

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num	Workitem
R3-011388	25.423	360		Corrections on Dedicated Measurement Initiation Request	F	agreed	3.5.0	3.6.0	TEI
R3-011389	25.423	361		Corrections on Dedicated Measurement Initiation Request	A	agreed	4.0.0	4.1.0	TEI
R3-011390	25.423	362		Corrections to the P-CPICH Power Handling	F	agreed	3.5.0	3.6.0	TEI
R3-011391	25.423	363		Corrections to the P-CPICH Power Handling	A	agreed	4.0.0	4.1.0	TEI
R3-011392	25.423	364		Addition of missing IEs in RL Setup and RL Addition	F	agreed	3.5.0	3.6.0	TEI
R3-011393	011393 25.423 365			Addition of missing IEs in RL Setup and RL Addition	A	agreed	4.0.0	4.1.0	TEI
R3-011394	25.423	366		Cell in CTrCh Resource Initialisation	F	agreed	3.5.0	3.6.0	TEI
R3-011395	R3-011395 25.423 367			Cell in CTrCh Resource Initialisation	A	agreed	4.0.0	4.1.0	TEI
R3-011396	25.423	368		Alignment of Neighbouring GSM Cell Information with RRC	F	agreed	3.5.0	3.6.0	TEI
R3-011397	25.423	369		Alignment of Neighbouring GSM Cell Information with RRC	A	agreed	4.0.0	4.1.0	TEI
R3-011657	25.423	377	1	Correction of the text for ToAWE IE	F	agreed	3.5.0	3.6.0	TEI
R3-011658	25.423	378	1	Correction of the text for ToAWE IE	A	agreed	4.0.0	4.1.0	TEI

R3-011682	25.423	381	1	Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration	F	agreed	3.5.0	3.6.0	TEI
R3-011499	25.423	382		Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration	A	agreed	4.0.0	4.1.0	TEI
R3-011683	25.423	387	1	Measurement clarifications	F	agreed	3.5.0	3.6.0	TEI
R3-011684	25.423	388	1	Measurement clarifications	A	agreed	4.0.0	4.1.0	TEI
R3-011530	25.423	389		Clarification on DL Power reference	F	agreed	3.5.0	3.6.0	TEI
R3-011531	25.423	390		Clarification on DL Power reference	A	agreed	4.0.0	4.1.0	TEI
R3-011700	25.423	394	1	RNSAP general corrections	F	agreed	3.5.0	3.6.0	TEI
R3-011701	25.423	395	1	RNSAP general corrections	A	agreed	4.0.0	4.1.0	TEI

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, 21st – 25th May, 2001

	CHANGE REQUEST	CR-Form-v3
ж	25.423 CR 360 ^{# rev} - [#]	Current version: 3.5.0 [#]
For <u>HELP</u> on us	ing this form, see bottom of this page or look at th	ne pop-up text over the # symbols.
Proposed change at	ffects: # (U)SIM ME/UE Radio A	ccess Network X Core Network
Title: ೫	Corrections on Dedicated Measurement Initiation	n Request message
Source: ೫	R-WG3	
Work item code: 🕱 🧧	TEI	Date: ೫ <mark>May 2001</mark>
Category: ೫	F	Release: ೫ R99
Reason for change:	 Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier releas B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. * This CR corrects the tabular format of the D INITIATION REQUEST message according the Dedicated Measurement Initiation process: In the description text of the Dedicated Meass that a Measurement can be requested for all format does not cover the situation. To align format, the same approach is taken as in the MEASUREMENT INITIATION REQUEST message 	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
Consequences if not approved:	 If this CR is not approved, there will remain description text and the tabular format of the INITIATION REQUEST message. <u>Backward compatibility:</u> This CR is backward compatible with the description of the message according to the message accord	e DEDICATED MEASUREMENT
Clauses affected:	¥ <mark>9.1.28</mark>	
Other specs Affected:		1 to TS 25.423 V4.0.0 ; CR 430 to TS 3 V3.5.0, CR 431 to TS 25.433 V4.0.0
Other comments:	¥	

How to create CRs using this form:

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

Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.

Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

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

9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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	Μ		9.2.1.59		-	
Measurement Id	Μ		9.2.1.37		YES	reject
Dedicated Measurement Object Type	Μ		9.2.1.17		YES	reject
CHOICE Dedicated Measurement Object Type	Μ				YES	reject
>RL					_	
>>RL Information		1 <maxn oofRLs></maxn 			EACH	reject
>>>RL-ID	Μ		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>RLS				FDD only	-	
>>RL Set Information		1 <maxn oofRLSet s></maxn 			EACH	reject
>>>RL-Set-ID	М		9.2.2.35		_	
>ALL RL			NULL		-	
>ALL RLS			NULL	FDD only	-	
Dedicated Measurement Type	М		9.2.1.18		YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
Report Characteristics	Μ		9.2.1.48		YES	reject
CFN reporting indicator	М		FN reporting indicator 9.2.1.28A		YES	reject
CFN	0		9.2.1.9		YES	reject

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

CR-Form-v3 CHANGE REQUEST Ħ 25.423 CR 361 ₩ rev ж Current version: ж 4.0.0 For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **#** symbols. (U)SIM ME/UE Radio Access Network X Core Network Proposed change affects: # Title: # Corrections on Dedicated Measurement Initiation Request message Source: R-WG3 Work item code: # TEI Date: # May 2001 ж А Release: # REL-4 Category: Use one of the following categories: Use one of the following releases: F (essential correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) B (Addition of feature), R97 (Release 1997) **C** (Functional modification of feature) (Release 1998) R98 **D** (Editorial modification) R99 (Release 1999) Detailed explanations of the above categories can REL-4 (Release 4) be found in 3GPP TR 21.900. REL-5 (Release 5) This CR corrects the tabular format of the DEDICATED MEASUREMENT Reason for change: # INITIATION REQUEST message according to the description text and ASN.1 of the Dedicated Measurement Initiation procedure Summary of change: # In the description text of the Dedicated Measurement Initiation Request it is stated that a Measurement can be requested for all the Radio Links, however, the tabular format does not cover the situation. To align the description text and the tabular format, the same approach is taken as in the NBAP DEDICATED MEASUREMENT INITIATION REQUEST message. The ASN.1 does not change since it already covered the ALL RL/RLS case. **Consequences** if ж If this CR is not approved, there will remain inconsistencies between the not approved: description text and the tabular format of the DEDICATED MEASUREMENT **INITIATION REQUEST message.** Backward compatibility: This CR is backward compatible with the description text and with the implementation of the message according to the ASN.1 provided. **# 9.1.28** Clauses affected: жХ Other core specifications CR 360 to TS 25.423 V3.5.0 ; CR 430 to TS Other specs ж 25.433 V3.5.0, CR 431 to TS 25.433 V4.0.0 **Test specifications** Affected: **O&M** Specifications Other comments: ж

How to create CRs using this form:

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

Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.

Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

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

9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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	Μ		9.2.1.59		_	•
Measurement Id	М		9.2.1.37		YES	reject
Dedicated Measurement Object Type	М		9.2.1.17		YES	reject
CHOICE Dedicated Measurement Object Type	Μ				YES	reject
>RL					-	
>>RL Information		1 <maxn oofRLs></maxn 			EACH	reject
>>>RL-ID	Μ		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>RLS				FDD only	Ι	
>>RL Set Information		1 <maxn oofRLSet s></maxn 			EACH	reject
>>>RL-Set-ID	М		9.2.2.35		-	
>ALL RL			NULL		_	
>ALL RLS			NULL	FDD only	_	
Dedicated Measurement Type	М		9.2.1.18		YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
Report Characteristics	М		9.2.1.48		YES	reject
CFN reporting indicator	М		FN reporting indicator 9.2.1.28A		YES	reject
CFN	0		9.2.1.9		YES	reject

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

R3-011390

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, May 21 st – 25 th , 2001

CR-Form-v3									
[#] 25.	.423	CR <mark>362</mark>	ж r	ev X	Current vers	^{ion:} 3.5.0 [#]			
For <u>HELP</u> on u	using this for	m, see bottom o	f this page	e or look at ti	he pop-up text	over the # symbols.			
Proposed change	affects: ೫	(U)SIM	ME/UE	Radio A	ccess Network	Core Network			
Title: #	Correction	is to the Primary	CPICH F	Power handli	ng				
Source: #	Source: # R-WG3								
Work item code: ₩	TEI				Date: ೫	May 2001			
Category: #	F				Release: Ж	R99			
	A (corr B (Add C (Fun D (Edit Detailed exp	ential correction) responds to a corre- lition of feature), ctional modification torial modification) lanations of the al 3GPP TR 21.900.	on of featur	re)	se) R96 R97 R98 R99 REL-4	(GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)			
Reason for change	e: ೫ Currer	ntly, the <i>Primary</i>	CPICH P	ower IE is or	otional in the R	ADIO LINK SETUP			
	measu DL por CPICH for all IE has Furthe IE is m cells of Chang - As to ne to the Poi SF Km in - Fu R/ Poi	arement report is wer balancing will a power. Therefore cells where an R been made main remore, in the pro- handatory in the ontrolled by the ges compared to suming the above SRNC if, e.g. two ighbours themse wards that DRNG e Primary CPICH ower IE is also in ESPONSE messes totonal IE in the A RNC may optional owledge of the r the SRNC.	in absolution here the <i>I</i> bore, the Per RL has be indatory in bocedure to <i>Neighbou</i> DRNC. The agreed ve solution to neighbour on neighbour control as bage. How <i>Neighbour</i> ally order neighbour DD the <i>P</i> UP RESP ved in me sed, e.g. f CPCH pow IC for all of E has bee	ute power lev DL reference rimary CPICI en establishe the RADIO ext, it is indic uring FDD Ce ed CR at RAI n, the Prima ouring cells b aning that th ighbouring F of the other co s mandatory vever, the Pri- ring FDD Ceu pathloss me ing cells Prir CCPCH Pow ONSE mess easurement r for comparing ver. Therefor cells where a en made mar	rel. The measure Power IE is re- H power has to ed. Thus, the F LINK SETUP I ated that the F ell Information I N3 #20: Ty CPICH Powe belonging to an e first time an DD Cell Informa- ell. Therefore, IE in the RADI imary CPICH F I Information IE asurement from nary CPICH power, eport is in abso- g it to the Maxi- re, the PCCPC n RL has been indatory in the F	wer Value received in rement is used, e.g. for plative to the Primary be known by SRNC Primary CPICH Power RESPONSE message. Primary CPICH Power IE for the neighbouring er is still not available tother DRNS are not RL is established pation IE will not includ the Primary CPICH O LINK ADDITION Power IE is kept as E message, as the m UE thus prior power would be needed tly optional in the the Transmitted Code olute power level. The mum Tx power which H power has to be n established. Thus, th RADIO LINK SETUP or IE has been included			

	 as mandatory IE in the RADIO LINK ADDITION RESPONSE message. However, the PCCPCH Power IE is kept as optional IE in the Neighbouring TDD Cell Information IE message, as the SRNC may optionally order pathloss measurement from UE thus prior knowledge of the neighbouring cells PCCPCH Power would be needed in the SRNC. The missing of the Primary CPICH Power IE in the RADIO LINK SETUP FAILURE is corrected by this which previously was included by the CR364.
Summary of change: ₩	 FDD: The <i>Primary CPICH Power</i> IE is made mandatory in the RADIO LINK SETUP RESPONSE and RADIO LINK SETUP FAILURE (IE missing). The <i>Primary CPICH Power</i> IE is added to the RADIO LINK ADDITION RESPONSE and RADIO LINK ADDITION FAILURE. TDD: The <i>PCCPCH Power</i> IE is made mandatory in the RADIO LINK SETUP RESPONSE. The <i>PCCPCH Power</i> IE is added to the RADIO LINK ADDITION RESPONSE.
Consequences if % not approved:	 FDD: The DL Power Balancing fuction will not work, if the <i>Primary CPICH Power</i> is not available over the lur. TDD: The evaluation of the Transmitted Code Power as well as path loss calculations (for handover decisions) will not work, if the <i>PCCPCH Power</i> IE is not available over the lur. Additional information: The change is not backwards compatible. One possible alternative would be that the <i>Primary CPICH Power</i> IE and <i>PCCPCH Power</i> IE are kept optional and in the procedure text mandate the inclusion of the IEs. However, the behaviour would still be non backward compatible with this alternative.
Clauses affected: #	9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1 and 9.3.3.

Clauses affected:	π 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1 and 9.3.3.
Other specs affected:	X Other core specifications X CR363 Rel-4 Test specifications O&M Specifications
Other comments:	X

How to create CRs using this form:

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

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

9.1.4 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		_	, í
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		_	
>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		-	<u> </u>
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>Diversity Indication	C- NotFirstRL		9.2.1.21		_	
>CHOICE Diversity Indication	М				—	
>>Combining					_	
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	_	
>>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 9.2.2.10		—	
>Minimum DL TX Power	M		DL Power 9.2.2.10		_	
>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	<u>ӘМ</u>		9.2.1.44		_	
>DSCH Information	0		DSCH		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response			FDD Information Response 9.2.2.13B			
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>PC Preamble	Μ		9.2.2.27a		_	
>SRB Delay	Μ		9.2.2.39A		_	
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE shall be present only if the RL is not the first RL in the RL
	Information

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

9.1.4.2 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
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
	0				YES	
CN CS Domain Identifier	0		9.2.1.11			ignore
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		-	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		-	
>UTRAN Access Point	0		9.2.1.70A		-	
Position						
>UL Time Slot ISCP Info	М		9.2.3.13D		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx	М	1	9.2.1.35		_	
Power >Maximum DL TX Power	M		DL Power			
>waximum DL TX POWEr	IVI				_	
			9.2.2.10			
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>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		_	
>Block STTD Indicator	0		9.2.3.A		_	
>PCCPCH Power	QM		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A		_	
	M					
>Alpha Value			9.2.3.a			
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation	М		9.2.3.7E		-	
Configuration						
>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			YES	ignore
>>Repetition Period	М		9.2.3.7		-	.gnoro
>>>Repetition Length	M	1	9.2.3.6		_	
>>>TDD DPCH Offset	M	+	9.2.3.8 9.2.3.8A			
>>>UL Timeslot		+	9.2.3.8A 9.2.3.13C		_	
Information	М		9.2.3.130		-	
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		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		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M	1	9.2.3.8A		_	
>>>DL Timeslot	M		9.2.3.2C			
Information >DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information	1	0	1	1	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response		<maxnoof DSCHs></maxnoof 				
>>DSCH ID	М		9.2.1.26A		_	
>>DSCH Flow Control Information	М		9.2.1.26B		_	
>>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		0 <maxnoof USCHs></maxnoof 			GLOBAL	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		YES	ignore
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case2	This IE shall be present when Sync Case IE is Case2.

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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		_	
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		0.2.1.11		YES	ignore
>General						ignore
>>Cause	М		9.2.1.5		-	
>RL Specific	IVI		9.2.1.0		_	
>>Unsuccessful RL		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxn<>			EACH	ignore
Information Response		oofRLs>			EACH	ignore
	5.4	UUIRLS>	0.0.1.40			
>>>RL ID	M		9.2.1.49		_	
>>>Cause	М	<u>^</u>	9.2.1.5		-	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				
>>>RL ID	M		9.2.1.49		_	
>>>RL Set ID	M		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	0		9.2.2.37B		-	
>>>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>Diversity Indication	М		9.2.1.21		_	
>>>CHOICE Diversity Indication	М				-	
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>>>Non Combining or First RL				Combining	_	
>>>>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	М		9.2.1.35		-	
>>>Maximum DL TX Power	М		DL Power 9.2.2.10		-	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		_	
>>>Primary CPICH Power	M		9.2.1.44		=	
>>>DSCH Information	0	1	DSCH		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response			FDD Information Response 9.2.2.13B			
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		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	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
Message Type	М		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	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	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>Diversity Indication	М		9.2.1.21		_	-
>CHOICE Diversity Indication	М				_	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID	_	
>>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 9.2.2.10		-	
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>PC Preamble	М		9.2.2.27a		-	
>SRB Delay	М		9.2.2.39A		_	
>Primary CPICH Power	M		<u>9.2.1.44</u>		=	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9

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

3GPP

9.1.7.2 TDD Message

Message Type Transaction ID RL Information Response >RL ID >URA Information >SAI >Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR >Maximum Uplink SIR	M M O M O O O M	1	reference 9.2.1.40 9.2.1.59 9.2.1.49 9.2.1.70B 9.2.1.52		YES - YES	reject ignore
Transaction ID RL Information Response >RL ID >URA Information >SAI >Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	M M O M O O O M	1	9.2.1.59 9.2.1.49 9.2.1.70B 9.2.1.52		_	
RL Information Response >RL ID >URA Information >SAI >Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	M 0 M 0 0 0	1	9.2.1.49 9.2.1.70B 9.2.1.52		YES	janore
>RL ID >URA Information >SAI >Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	0 M 0 0 M		9.2.1.70B 9.2.1.52		TLO	
>URA Information >SAI >Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	0 M 0 0 M		9.2.1.70B 9.2.1.52		I _	ignore
>SAI >Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	M O O M		9.2.1.52	1		
>Cell GAI >UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	0 0 M					
>UTRAN Access Point Position >UL Time Slot ISCP Info >Minimum Uplink SIR	O M				_	
Position >UL Time Slot ISCP Info >Minimum Uplink SIR	M		9.2.1.5A		-	ļ
>Minimum Uplink SIR			9.2.1.70A		-	
			9.2.3.13D		-	
Maximum Unlink SIR	М		Uplink SIR 9.2.1.69		-	
	М		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx	М		9.2.1.35		-	
Power >Maximum DL TX Power	N.4		DL D			
	Μ		DL Power 9.2.2.10		-	
>Minimum DL TX Power	Μ		DL Power		-	
			9.2.2.10			
>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	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			120	ignore
>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6			
					-	
>>>TDD DPCH Offset	M		9.2.3.8A		-	
>>>UL Timeslot	М		9.2.3.13C		-	
Information						
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2			
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information	M		9.2.3.2C		-	
>DCH Information		01			_	
	M	01	0.2.1.24		-	
>>Diversity Indication	M		9.2.1.21		-	
>>CHOICE Diversity Indication	М				-	
>>>Combining					-	
>>>>RL ID	М		9.2.1.49	Reference RL	-	
>>>Non Combining					_	
>>>>DCH Information Response	М		9.2.1.16A		-	
>DSCH Information		0			GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response		<maxnoof DSCHs></maxnoof 				
>>DSCH ID	М		9.2.1.26A		_	
>>Transport Format Management	М		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.1.26B		_	
>>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	М		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		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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 one UE.

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	М		9.2.1.59		-	
CHOICE Cause Level	М				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	М		9.2.1.5		-	
>>Successful RL Information Response		0 <maxnoof RLs-2></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	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>Diversity Indication	М		9.2.1.21		_	
>>>CHOICE Diversity Indication	М				_	
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>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 9.2.2.10		-	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>>>Primary CPICH Power	M		<u>9.2.1.44</u>		=	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.3.3 PDU Definitions

--Unaffected parts are omitted.

_ _ -- RADIO LINK SETUP RESPONSE FDD RadioLinkSetupResponseFDD ::= SEQUENCE { {{RadioLinkSetupResponseFDD-IEs}}, protocolIEs ProtocolIE-Container 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 PRESENCE optional CRITICALITY ignore TYPE CN-PS-DomainIdentifier 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 }, . . . RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-InformationResponseItemIEs-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-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 FDD-DL-CodeInformation, diversityIndication DiversityIndication-RL-SetupRspFDD, -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in

```
Release 1999
```

```
-- the tabular message format in subclause 9.1.
    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
                                                             OPTIONAL,
    dSCHInformationResponse
                                    DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    pC-Preamble
                                    PC-Preamble,
    sRB-Delav
                                     SRB-Delay,
                                    ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                    Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                    NonCombiningOrFirstRL-RL-SetupRspFDD
Combining-RL-SetupRspFDD ::= SEOUENCE {
   rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
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 ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}
DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
```

3GPP TS 25.423 V3.5.0 (2001-03)

{ ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse PRESENCE mandatory } RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . } _ _ -- RADIO LINK SETUP RESPONSE TDD _ _ RadioLinkSetupResponseTDD ::= SEOUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}} OPTIONAL, . . . RadioLinkSetupResponseTDD-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-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory } PRESENCE mandatory } ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-ID RL-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, qA-AccessPointPosition GA-AccessPointPosition OPTIONAL, UL-TimeSlot-ISCP-Info, ul-TimeSlot-ISCP-Info maxIIL-STR UL-SIR, minUL-SIR UL-SIR, MaximumAllowedULTxPower, maximumAllowedULTxPower maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, uARFCNforNt UARFCN OPTIONAL, cellParameterID CellParameterID OPTIONAL, syncCase SyncCase OPTIONAL, sCH-TimeSlot SCH-TimeSlot OPTIONAL, -- This IE shall be present when Sync Case IE is Case2. -block-STTD-Indicator Block-STTD-Indicator OPTIONAL, pCCPCH-Power PCCPCH-Power OPTIONAL, timingAdvanceApplied TimingAdvanceApplied, alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,

```
synchronisationConfiguration
                                         SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD
                                        Secondary-CCPCH-Info-TDD
                                                                     OPTIONAL.
    ul-CCTrCHInformation
                                        UL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL.
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    dsch-InformationResponse
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-UMTS-CellInformation
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{UL-CCTrCHInformationListles-RL-SetupRspTDD}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                 PRESENCE mandatory
UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD
UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD } }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    ID id-UL-DPCH-InformationItem-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
}
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
DL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD PRESENCE mandatory }
DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD
DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL.
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD } }
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD
                                                       CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEOUENCE {
    repetitionPeriod
                                   RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocollE-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
```

```
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD
DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
   dsch-ID
                          DSCH-ID.
   dSCH-FlowControlInformation
                                 DSCH-FlowControlInformation,
   bindingID
                          BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
   iE-Extensions
                          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD
                                                    CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
   usch-ID
                             USCH-ID,
   bindingID
                             BindingID OPTIONAL,
    transportLayerAddress
                             TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
   iE-Extensions
                             ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
--Unaffected parts are omitted.
   _ _
-- RADIO LINK SETUP FAILURE FDD
___
```

```
Release 1999
```

```
RadioLinkSetupFailureFDD ::= SEQUENCE
    protocolIEs
                                    Protocol IE-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
                                                                               TYPE CauseLevel-RL-SetupFailureFDD
                                                        CRITICALITY ignore
                                                                                                                       PRESENCE mandatory } |
                                                                                        PRESENCE optional }
     ID id-UL-SIRTarget
                                        CRITICALITY ignore TYPE UL-SIR
     ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                  PRESENCE optional },
    . . .
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 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 ::= {
    . . .
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-
SetupFailureFDD
                    PRESENCE mandatory }
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
```

```
rL-ID
                                RL-ID,
                                Cause.
    cause
    iE-Extensions
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs } } OPTIONAL.
    . . .
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-TD
                                            RL-ID,
    rL-Set-TD
                                            RL-Set-ID,
    uRA-Information
                                            URA-Information
                                                                 OPTIONAL,
    sAI
                                            SAI,
    qA-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,
    diversitvIndication
                                            DiversityIndication-RL-SetupFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
                                            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
    dSCH-InformationResponse-RL-SetupFailureFDD
                                                     DSCH-InformationResponseList-RL-SetupFailureFDD
                                                                                                         OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    . . .
SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining
                                     Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                NonCombiningOrFirstRL-RL-SetupFailureFDD
```

```
ļ
Combining-RL-SetupFailureFDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
                              ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
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 ::= 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
ļ
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
--Unaffected parts are omitted.
    _ _
-- RADIO LINK ADDITION RESPONSE FDD
_ _
   **********
_ _
RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                 ProtocolIE-Container
                                                           {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
    . . .
}
```

. . .

3GPP TS 25.423 V3.5.0 (2001-03)

```
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= ·
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                            CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                                      PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                                                                                  PRESENCE optional },
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
    . . .
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 ::= SEOUENCE
    rL-ID
                                    RL-ID,
    rL-Set-ID
                                    RL-Set-ID,
    uRA-Information
                                    URA-Information
                                                        OPTIONAL,
    SAT
                                    SAT.
    qA-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
                                    DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication
                                    DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
    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 ::= {

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 }

```
Release 1999
```

```
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
   combining
                                 Combining-RL-AdditionRspFDD,
   nonCombining
                                 NonCombining-RL-AdditionRspFDD
Combining-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
                             ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
NonCombining-RL-AdditionRspFDD ::= SEQUENCE {
   dCH-InformationResponse
                                         DCH-InformationResponse,
   iE-Extensions
                                             ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
   . . .
ļ
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
       _ _
-- RADIO LINK ADDITION RESPONSE TDD
RadioLinkAdditionResponseTDD ::= SEQUENCE {
                                                           {{RadioLinkAdditionResponseTDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                     OPTIONAL,
   . . .
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-InformationResponse-RL-AdditionRspTDD
                          CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD
                                                                                          PRESENCE mandatory }
   { ID id-CriticalityDiagnostics
                                        CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                           PRESENCE optional },
   . . .
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
```

	rL-ID	RL-ID,	
	uRA-Information	URA-Information OPTIONAL,	
	sAI		
		SAI,	
	gA-Cell	GA-Cell OPTIONAL,	
	gA-AccessPointPosition	GA-AccessPointPosition OPTIONAL,	
	ul-TimeSlot-ISCP-Info	UL-TimeSlot-ISCP-Info,	
	minUL-SIR	UL-SIR,	
	maxUL-SIR	UL-SIR,	
	maximumAllowedULTxPower	MaximumAllowedULTxPower,	
	maximumDLTxPower	DL-Power,	
	minimumDLTxPower	DL-Power,	
	pCCPCH-Power	PCCPCH-Power,	
	timingAdvanceApplied	TimingAdvanceApplied,	
	alphaValue	AlphaValue,	
	ul-PhysCH-SF-Variation	UL-PhysCH-SF-Variation,	
	synchronisationConfiguration	SynchronisationConfiguration,	
	secondary-CCPCH-Info-TDD	Secondary-CCPCH-Info-TDD OPTIONAL,	
	ul-CCTrCHInformation	UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,	
	dl-CCTrCHInformation	DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,	
	dCH-Information	DCH-Information-RL-AdditionRspTDD OPTIONAL,	
	dSCH-InformationResponse	DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,	
	uSCH-InformationResponse	USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,	
	neighbouring-UMTS-CellInformation	Neighbouring-UMTS-CellInformation OPTIONAL,	
	neighbouring-GSM-CellInformation	Neighbouring-GSM-CellInformation OPTIONAL,	
	iE-Extensions	ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,	
1			
F			
-	?L-IntormationResponse-RL-AdditionRspT	'DD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {	
		DD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {	
ļ		DD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {	
]		DD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {	
		· ·	
		DD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	
τ	 JL-CCTrCHInformationList-RL-AdditionRs	pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	
τ	 JL-CCTrCHInformationList-RL-AdditionRs	pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	PRESENCE
τ	 JL-CCTrCHInformationList-RL-AdditionRs JL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI	pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	PRESENCE
τ	 JL-CCTrCHInformationList-RL-AdditionRs	pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	PRESENCE
τ	 JL-CCTrCHInformationList-RL-AdditionRs JL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI	pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	PRESENCE
τ τ]	 UL-CCTrCHInformationList-RL-AdditionRs UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI handatory }	ppTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { E-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD	PRESENCE
τ τ]	 UL-CCTrCHInformationList-RL-AdditionRs UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI handatory }	pTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}	PRESENCE
נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE mandatory } UL-CCTrCHInformationListIE-RL-Addition	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { E-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD </pre>	PRESENCE
נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI andatory } UL-CCTrCHInformationListIE-RL-Addition UL-CCTrCHInformationItem-RL-AdditionRs	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { CE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD spTDD ::= SEQUENCE {</pre>	PRESENCE
נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs L-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI andatory } L-CCTrCHInformationListIE-RL-Addition L-CCTrCHInformationItem-RL-AdditionRs cCTrCH-ID CCTrCH	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { EE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD pTDD ::= SEQUENCE { I-ID,</pre>	PRESENCE
נ נ נ נ נ	 L-CCTrCHInformationList-RL-AdditionRs; L-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI uandatory } L-CCTrCHInformationListIE-RL-Addition L-CCTrCHInformationItem-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} mRspTDD RNSAP-PROTOCOL-IES ::= { E=RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD pTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, OPTIONAL, </pre>	PRESENCE
נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs; UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE andatory } UL-CCTrCHInformationListIE-RL-Addition UL-CCTrCHInformationItem-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pr	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { EE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD pTDD ::= SEQUENCE { I-ID,</pre>	PRESENCE
נ נ נ נ נ	 L-CCTrCHInformationList-RL-AdditionRs; L-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListI uandatory } L-CCTrCHInformationListIE-RL-Addition L-CCTrCHInformationItem-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} mRspTDD RNSAP-PROTOCOL-IES ::= { E=RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD pTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, OPTIONAL, </pre>	PRESENCE
נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs; UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE andatory } UL-CCTrCHInformationListIE-RL-Addition UL-CCTrCHInformationItem-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pr	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} mRspTDD RNSAP-PROTOCOL-IES ::= { E=RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD pTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, OPTIONAL, </pre>	PRESENCE
נ נ נ נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs [L-CCTrCHInformationListIEs-RL-Addition] { ID id-UL-CCTrCH-InformationListIE handatory } [L-CCTrCHInformationListIE-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pro- 	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { EE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD ppTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, rotocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, </pre>	PRESENCE
נ נ נ נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs UL-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE andatory } UL-CCTrCHInformationListIE-RL-AdditionRs cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pr UL-CCTrCHInformationItem-RL-AdditionRs	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} mRspTDD RNSAP-PROTOCOL-IES ::= { E=RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD pTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, OPTIONAL, </pre>	PRESENCE
נ ת ת נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs L-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE handatory } L-CCTrCHInformationListIE-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pro- L-CCTrCHInformationItem-RL-AdditionRs; 	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { EE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD ppTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, rotocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, </pre>	PRESENCE
נ נ נ נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs L-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE handatory } L-CCTrCHInformationListIE-RL-AdditionRs; cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pro- L-CCTrCHInformationItem-RL-AdditionRs; 	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { EE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD ppTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, rotocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, </pre>	PRESENCE
נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ	L-CCTrCHInformationList-RL-AdditionRs L-CCTrCHInformationListIEs-RL-Addition { ID id-UL-CCTrCH-InformationListIE andatory } L-CCTrCHInformationListIE-RL-AdditionRs cCTrCH-ID CCTrCH ul-DPCH-Information UL iE-Extensions Pro- L-CCTrCHInformationItem-RL-AdditionRs 	<pre>apTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} onRspTDD RNSAP-PROTOCOL-IES ::= { EE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD RspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD ppTDD ::= SEQUENCE { I-ID, -DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, rotocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, </pre>	PRESENCE

```
UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD
                                                            CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
}
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIes-RL-AdditionRspTDD}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD
                                                                                                                                       PRESENCE
mandatory }
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD
DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
      ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD
                                                            CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    . . .
```

```
DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversitvIndication
                                        DiversitvIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    iE-Extensions
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining
                    Combining-RL-AdditionRspTDD,
    nonCombining
                   NonCombining-RL-AdditionRspTDD
ļ
Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
NonCombining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
                                    ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationListIEs-RL-AdditionRspTDD}}
DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE DSCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                              PRESENCE mandatory
ļ
DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD
DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE
    dsch-ID
                            DSCH-ID,
```

3GPP TS 25.423 V3.5.0 (2001-03)

```
transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    diversitvIndication
                            DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs } } OPTIONAL,
    . . .
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}
USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE USCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                             PRESENCE mandatory
ļ
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID
                            USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversityIndication
                            DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
                            ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

--Unaffected parts are omitted.

3GPP TS 25.423 V3.5.0 (2001-03)

- --- RADIO LINK ADDITION FAILURE FDD ____ RadioLinkAdditionFailureFDD ::= SEQUENCE { {{RadioLinkAdditionFailureFDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}} protocolExtensions 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 }, . . . l CauseLevel-RL-AdditionFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-AdditionFailureFDD, rLSpecificCause RLSpecificCauseList-RL-AdditionFailureFDD, . . . 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, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } } 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 ::= {

. . .

3GPP TS 25.423 V3.5.0 (2001-03)

{ 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 ::= { . . . SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-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-ID RL-ID, rL-Set-ID 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, 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, iE-Extensions ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL, . . .

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

3GPP TS 25.423 V3.5.0 (2001-03)

```
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 }
l
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 ::= {
    . . .
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
                                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
ļ
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

R3-011391

			CHAN		EQUI	EST			CR-Form-v3
ж	2 <mark>5.42</mark>	3	CR <mark>363</mark>	H	rev	Ħ	Current vers	^{ion:} 4.0.() ^ж
For <u>HELP</u> o	on using	g this fori	m, see bottom	of this pag	e or lool	k at the	e pop-up text	over the # s	ymbols.
Proposed chan	ge affe	ects: ೫	(U)SIM	ME/UE	Ra	dio Ac	cess Network	KX Core I	Network
Title:	ж <mark>С</mark>	Correction	<mark>is to the Prima</mark>	ry CPICH	Power h	andling	g		
Source:	<mark>೫ R</mark>	R-WG3							
Work item code	e: ೫ T	El					Date: ೫	May 2001	
Category:	ж <mark>А</mark>	N					Release: ೫	REL-4	
		A (corr B (Add C (Fun D (Edit etailed exp	ential correction) responds to a co lition of feature), ctional modificat torial modificatio lanations of the 3GPP TR 21.900	prrection in a tion of featu n) above cate	re)		2 9) R96 R97 R98 R99 REL-4 REL-5	(GSM Phase 2 (Release 1990 (Release 1997 (Release 1998 (Release 1998 (Release 4) (Release 5)	6) 7) 8)
		measu DL pow CPICH for all o IE has Furthe IE is m cells c Chang - As to ne tow the PC RE op SF kn in	ONSE messagurement report wer balancing I power. There cells where an been made m more, in the p nandatory in th ontrolled by th ssuming the ab SRNC if, e.g. f ighbours them wards that DRI e Primary CPIC beer IE is also ESPONSE me obtional IE in the RNC may optic iowledge of the SRNC.	is in absol where the afore, the F RL has be andatory in procedure to e <i>Neighbo</i> e DRNC. to the agre bove solution two neighbours NC, the <i>Ne</i> CH power of included a ssage. How e <i>Neighbour</i> onally order e neighbours TDD the <i>F</i> TUP RESF seived in m used, e.g. CCPCH po	ute power DL refer Primary C een estal in the RA eext, it is uring FD ed CR a pouring c eaning the ouring c eaning the pouring c easing the pouring the pouring c easing the pouring the p	er leve ence / CPICH blished DIO L indica D Cell t RAN rimary ells be nat the ing FD ner cel atory IE ne Prin D Cell s mea s Prim C Cell s mea s Prim S mea s Prim	el. The measu Power IE is re power has to d. Thus, the F INK SETUP I ted that the F I Information 3 #20: CPICH Powe longing to an first time an D Cell Inform I. Therefore, E in the RADI nary CPICH F Information II surement from ary CPICH power port is in abs it to the Maxia , the PCCPC	arement is use elative to the lo be known by Primary CPIC RESPONSE Primary CPIC IE for the neig er is still not a bother DRNS RL is establis bation IE will r the Primary C O LINK ADD Power IE is ke E message, a m UE thus pr bower would b atly optional ir , the Transmi olute power le mum Tx pow H power has	ed, e.g. for Primary y SRNC <i>H Power</i> message. <i>H Power</i> ghbouring available are not shed not include <i>CPICH</i> ITION ept as as the ior e needed of the tted Code evel. The er which is to be

		 RESPONSE message. In addition, the <i>PCCPCH Power</i> IE has been included as mandatory IE in the RADIO LINK ADDITION RESPONSE message. However, the <i>PCCPCH Power</i> IE is kept as optional IE in the <i>Neighbouring TDD Cell Information</i> IE message, as the SRNC may optionally order pathloss measurement from UE thus prior knowledge of the neighbouring cells PCCPCH Power would be needed in the SRNC. The missing of the <i>Primary CPICH Power</i> IE in the RADIO LINK SETUP FAILURE is corrected by this which previously was included by the CR364.
Sumi	mary of change:	 FDD: The <i>Primary CPICH Power</i> IE is made mandatory in the RADIO LINK SETUP RESPONSE and RADIO LINK SETUP FAILURE (IE missing). The <i>Primary CPICH Power</i> IE is added to the RADIO LINK ADDITION RESPONSE and RADIO LINK ADDITION FAILURE. TDD: The <i>PCCPCH Power</i> IE is made mandatory in the RADIO LINK SETUP
Cons	sequences if #	 RESPONSE. The PCCPCH Power IE is added to the RADIO LINK ADDITION RESPONSE. FDD:
not a	pproved:	The DL Power Balancing fuction will not work, if the <i>Primary CPICH Power</i> is not available over the lur. TDD: The evaluation of the Transmitted Code Power as well as path loss calculations (for handover decisions) will not work, if the <i>PCCPCH Power</i> IE is not available over the lur.
		Additional information: The change is not backwards compatible. One possible alternative would be that the <i>Primary CPICH Power</i> IE and <i>PCCPCH Power</i> IE are kept optional and in the procedure text mandate the inclusion of the IEs. However, the behaviour would still be non backward compatible with this alternative.
Claus	ses affected: #	9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1 and 9.3.3.
Othe affec		X Other core specifications # CR362 R99 Test specifications 0&M Specifications *
04		

ж

Other comments:

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

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

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	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	М		FDD DL Code Information 9.2.2.14A		_	
>Diversity Indication	C- NotFirstRL		9.2.1.21		_	
>CHOICE Diversity Indication	M				-	
>>Combining					_	
>>>RL ID	Μ		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	M		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 9.2.2.10		-	
>Minimum DL TX Power	M		DL Power 9.2.2.10		-	
>Primary Scrambling Code	0		9.2.1.45	0	—	
>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	Θ <u>Μ</u>		9.2.1.44		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>DSCH Information Response	0		DSCH 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		YES	ignore
>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
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE shall be present only if the RL is not the first RL in the RL
	Information

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

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigne Criticalit
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		9.2.1.24		YES	
	-					ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		01		Mandatory For 3.84Mcps TDD only	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	0				_	
Position	•		9.2.1.70A		_	
>UL Time Slot ISCP Info	Μ		9.2.3.13D		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М	1	Uplink SIR		_	
					_	
			9.2.1.69			
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.2.10		_	
>Minimum DL TX Power	M		DL Power			
>Minimum DL TX Power	IVI				_	
			9.2.2.10			-
>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		9.2.1.54		_	
					_	
>Block STTD Indicator	0		9.2.3.A		-	
>PCCPCH Power	<u>ӨМ</u>		9.2.1.43		-	
>Timing Advance Applied	Μ		9.2.3.12A		-	
>Alpha Value	Μ		9.2.3.a		-	
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation	M		9.2.3.7E			
• • •	111		9.2.3.7L		_	
Configuration	0		0.0.0.70			
>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			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M	1	9.2.3.6		_	
	M	+			-	
>>>TDD DPCH Offset			9.2.3.8A		_	
>>>UL Timeslot Information	М		9.2.3.13C		-	
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information	1	01			YES	ignore
>>Repetition Period	Μ		9.2.3.7			ignore
>>>Repetition Length	M		9.2.3.6			
					_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot	М		9.2.3.2C			
Information	1	1	1	1	1	

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.26A		_	
>>DSCH Flow Control	М		9.2.1.26B		_	
Information						
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0	1	9.2.1.62		_	
>>Transport Format	M		9.2.3.13		_	
Management			01210110			
>USCH Information		0			GLOBAL	ignore
Response		<maxnoof USCHs></maxnoof 			0200/12	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0	1	9.2.1.3	1	_	1
>>Transport Layer	0	1	9.2.1.62		_	
Address		1	0.2.1.02			
>>Transport Format	М	1	9.2.3.13		_	
Management	141	1	0.2.0.10			
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell	0		9.2.1.41C		YES	ignore
Information	0		9.2.1.410		TES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignoro
	0	0.1	9.Z.1.3D	Manalatanı		ignore
RL Information Response LCR		01		Mandatory For 1.28Mcps TDD only	YES	ignore
>RL ID	М		9.2.1.49	· · ·	_	
>URA Information	М	1	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 LCR	М		9.2.3.13H		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	М	1	Uplink SIR		-	
·		1	9.2.1.69			
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.2.10		_	
>Minimum DL TX Power	М		DL Power 9.2.2.10		_	
>UL PhysCH SF Variation	М		9.2.3.13B			
>UL CCTrCH Information LCR		0 <maxno ofCCTrCH</maxno 		For DCH	GLOBAL	ignore
	M	sLCR>	0.2.2.2			
>>CCTrCH ID	М	0.1	9.2.3.2			ignass
>>UL DPCH Information LCR		01	0.0.0.7		YES	ignore
>>>Repetition Period	M		9.2.3.7		_	
>>>Repetition Length	M	 	9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		-	
>>>UL Timeslot Information LCR	М		9.2.3.x5		-	
>DL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2	1	_	1
>>(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
LCR						
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		-	
>>>DL Timeslot Information LCR	М		9.2.3.2E			
>>>TSTD Indicator	Μ		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	Μ		9.2.1.26A		_	
>>DSCH Flow Control Information	М		9.2.1.26B		_	
>>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		_	
>>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		_	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case2	This IE shall be present when Sync Case IE is Case2.

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.

7

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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		-	
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		0.2.1.11		YES	ignore
>General	101				-	ignore
>>Cause	М		9.2.1.5		_	
>RL Specific	171		3.2.1.3			
>>Unsuccessful RL		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxn<>			EACH	ignore
Information Response		oofRLs>			LACIT	ignore
>>>RL ID	М	00111232	9.2.1.49			
>>>Cause	M		9.2.1.5			
>>Successful RL	IVI	0 <maxno< td=""><td>9.2.1.0</td><td></td><td>EACH</td><td>ignoro</td></maxno<>	9.2.1.0		EACH	ignoro
Information Response		ofRLs-1>			EACH	ignore
>>>RL ID	М	UIRLS-1>	0.0.1.40			
			9.2.1.49		-	
>>>RL Set ID	M		9.2.2.35 9.2.1.70B		_	
>>>URA Information	0				_	
>>>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 Info	0		9.2.2.37B		-	
>>>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>Diversity Indication	Μ		9.2.1.21		_	
>>>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	М		9.2.1.35		_	
>>>Maximum DL TX Power	М		DL Power 9.2.2.10		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		_	
>>>Primary CPICH Power	M		<u>9.2.1.44</u>		=	
>>>DSCH Information Response	0		DSCH 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		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		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	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	ussenption		• · · · · · ·
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		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	Μ		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
>Diversity Indication	М		9.2.1.21		-	
>CHOICE Diversity	M				-	
Indication						
>>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	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	М		DL Power 9.2.2.10		-	
>Minimum DL TX Power	M		DL Power 9.2.2.10		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	М		9.2.2.39A		_	
>Primary CPICH Power	<u>M</u>		<u>9.2.1.44</u>		=	
>Cell GA Additional Shapes	0		9.2.1.5B		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 reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10]001
RL Information Response		01	0.2.1.00	Mandatory For 3.84Mcps TDD only	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	0		9.2.1.70B		_	-
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		_	
Position	-					
>UL Time Slot ISCP Info	Μ		9.2.3.13D		_	
>Minimum Uplink SIR	M		Uplink SIR		-	
			9.2.1.69			
>Maximum Uplink SIR	М		Uplink SIR		_	
Mandana All 1111 T			9.2.1.69			
>Maximum Allowed UL Tx Power	Μ		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power		-	
			9.2.2.10			
>Minimum DL TX Power	М		DL Power		-	
			9.2.2.10			
>PCCPCH Power	Μ		9.2.1.43		_	
>Timing Advance Applied	Μ		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 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information						-g
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot	M	1	9.2.3.13C	1	_	
Information			0.2.0.100			
>DL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	CCTrCHs>	9.2.3.2	+	-	
>>DL DPCH	IVI	01	3.2.3.2		YES	ianara
Information		01			153	ignore
>>>Repetition Period	NA	+	0227	+		
	M		9.2.3.7		_	
>>Repetition Length >>>TDD DPCH Offset	M		9.2.3.6 9.2.3.8A		_	
>>>DD DPCH Offset	M		9.2.3.8A 9.2.3.2C		-	
Information	IVI		9.2.3.20		_	
>DCH Information		01			-	
>>Diversity Indication >>CHOICE Diversity	M		9.2.1.21			
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL	-	
>>>>DCH Information	0		9.2.1.16A		YES	ignore

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigne Criticalit
No. O cashining			reference			
>>>Non Combining					-	
>>>>DCH Information Response	М		9.2.1.16A		_	
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof DSCHs></maxnoof 			GLODAL	ignore
>>DSCH ID	М		9.2.1.26A		_	
>>Transport Format Management	M		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.1.26B		-	
>>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 			GLODAL	ignore
>>USCH ID	М		9.2.3.14	1	_	
>>Transport Format Management	M		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		YES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
RL Information Response LCR		01		Mandatory For 1.28Mcps TDD only	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		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>PCCPCH Power	<u>M</u>		<u>9.2.1.43</u>		=	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.2.10		-	
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>UL PhysCH SF Variation	М		9.2.3.13B		-	
>UL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R></maxnoof 		For DCH	GLOBAL	ignore
	1	1 17 2		1	1	1

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>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	М		9.2.3.13G		_	
Information LCR						
>DL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH		01			YES	ignore
Information LCR						-
>>>Repetition Period	Μ		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>DL Timeslot	M		9.2.3.2E		_	
Information LCR						
>>>TSTD Indicator	М	1	9.2.3.13E		-	
>DCH Information		01			YES	ignore
>>Diversity Indication	М		9.2.2.7		-	
>>CHOICE Diversity	M				_	
Indication						
>>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL	_	
>>>Non Combining					-	
>>>>DCH Information Response	М		9.2.1.16A		_	
>DSCH Information Response LCR		0 <maxnoof DSCHsLCR ></maxnoof 			GLOBAL	ignore
>>DSCH ID	М	-	9.2.1.26A		_	
>>Transport Format	M		9.2.3.13		_	
Management			0.2.0110			
>>DSCH Flow Control Information	М		9.2.1.26B		_	
>>CHOICE Diversity Indication	0				_	
>>>Non Combining					_	
>>>>Binding ID	0		9.2.1.3		-	
>>>>Transport	0		9.2.1.62		-	
Layer Address >USCH Information Response LCR		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>			GLOBAL	ignore
		USCHsLCR				
>>USCH ID	М		9.2.3.14		_	
>>Transport Format Management	M		9.2.3.13		-	
>>CHOICE Diversity Indication	0				-	
>>>Non Combining					_	
>>>BindingID	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		-	
			9.2.1.13	1	YES	

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	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
CHOICE Cause Level	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxnoof RLs-1></maxnoof 			EACH	ignore
>>>RL ID	Μ		9.2.1.49		_	
>>>Cause	Μ		9.2.1.5		_	
>>Successful RL Information Response		0 <maxnoof RLs-2></maxnoof 			EACH	ignore
>>>RL ID	Μ		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	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>Diversity Indication	М		9.2.1.21		_	
>>>CHOICE Diversity Indication	M		5.2.1.21		-	
>>>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	M		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	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	М		DL Power 9.2.2.10		-	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Primary CPICH Power	M		<u>9.2.1.44</u>		=	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.3.3 PDU Definitions

--Unaffected parts are omitted.

-- RADIO LINK SETUP RESPONSE FDD ____ RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} protocolExtensions 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-ID RL-ID, rL-Set-ID RL-Set-ID, uRA-Information URA-Information OPTIONAL. sAI SAI, qA-Cell OPTIONAL. GA-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 FDD-DL-CodeInformation, diversitvIndication DiversityIndication-RL-SetupRspFDD, -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in -- the tabular message format in subclause 9.1. sSDT-SupportIndicator SSDT-SupportIndicator, maxUL-SIR UL-SIR,

3GPP TS 25.423 V4.0.0 (2001-03)

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 OPTIONAL, dSCHInformationResponse DSCH-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 ::= { CRITICALITY ignore EXTENSION GA-CellAdditionalShapes { ID id-GA-CellAdditionalShapes PRESENCE optional }, . . . ļ DiversityIndication-RL-SetupRspFDD ::= CHOICE { combining Combining-RL-SetupRspFDD, nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupRspFDD Combining-RL-SetupRspFDD ::= SEOUENCE { 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 } 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 ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }} DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse PRESENCE mandatory }

Release 4

18

RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { l _ -- RADIO LINK SETUP RESPONSE TDD RadioLinkSetupResponseTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}} OPTIONAL, . . . RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= { PRESENCE optional } ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI 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-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory --For 3.84Mcps TDD only { ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE mandatory } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-TD RL-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, qA-AccessPointPosition GA-AccessPointPosition OPTIONAL, UL-TimeSlot-ISCP-Info, ul-TimeSlot-ISCP-Info maxUL-SIR UL-SIR, minUL-SIR UL-SIR, MaximumAllowedULTxPower, maximumAllowedULTxPower maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, UARFCNforNt UARFCN OPTIONAL, cellParameterID CellParameterID OPTIONAL, syncCase SyncCase OPTIONAL, SCH-TimeSlot sCH-TimeSlot OPTIONAL. -- This IE shall be present when Sync Case IE is Case2. -block-STTD-Indicator Block-STTD-Indicator OPTIONAL, PCCPCH-PowerpCCPCH-Power OPTIONAL, timingAdvanceApplied TimingAdvanceApplied, alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondary-CCPCH-Info-TDD Secondary-CCPCH-Info-TDD OPTIONAL,

```
Release 4
                                                                          20
                                                                                             3GPP TS 25.423 V4.0.0 (2001-03)
    ul-CCTrCHInformation
                                        UL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL.
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    dsch-InformationResponse
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-UMTS-CellInformation
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                         PRESENCE optional },
    . . .
UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                 PRESENCE mandatory }
UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD
UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD
                                                         CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
}
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
                                    TDD-DPCHOffset,
    tDD-DPCHOffset
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
Release 4
                                                                          21
                                                                                            3GPP TS 25.423 V4.0.0 (2001-03)
DL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD PRESENCE mandatory }
DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD
DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL.
   iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD } }
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                   RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                   DL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocollE-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD
```

```
3GPP
```

22

3GPP TS 25.423 V4.0.0 (2001-03)

```
DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID.
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                            BindingID OPTIONAL,
    transportLaverAddress TransportLaverAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
}
USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
                                                       OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress
    transportFormatManagement
                                TransportFormatManagement,
    iE-Extensions
                                ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-LCR-InformationResponse-RL-SetupRspTDD
                                                                                                                                      PRESENCE
mandatory },
    --For 1.28Mcps TDD only
    . . .
RL-LCR-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID.
    uRA-Information
                                URA-Information,
    sAI
                                SAI,
                                GA-Cell
    qA-Cell
                                            OPTIONAL,
    uTRAN-AccessPointPosition UTRAN-AccessPointPosition
                                                            OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR
                                UL-SIR,
    minUL-SIR
                                UL-SIR,
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower,
```

```
23
```

```
maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power.
    ul-PhysCH-SF-Variation
                                UL-PhysCH-SF-Variation.
    ul-LCR-CCTrCHInformation
                                            UL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                             OPTIONAL,
    dl-LCR-CCTrCHInformation
                                            DL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                             OPTIONAL,
    dCH-InformationResponse
                                            DCH-InformationResponseList-RL-SetupRspTDD
                                                                                             OPTIONAL,
    dsch-LCR-InformationResponse
                                            DSCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                             OPTIONAL,
    usch-LCR-InformationResponse
                                            USCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                             OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation
                                                                                             OPTIONAL,
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation
                                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs } }
                                                                                                                                       OPTIONAL,
    . . .
RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                       PRESENCE
mandatory }
UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD
UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-LCR-Information
                                    UL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD }
UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
      ID id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                             CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory
}
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                    UL-TimeslotLCR-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
```

```
Release 4
```

24

3GPP TS 25.423 V4.0.0 (2001-03)

```
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD PRESENCE
mandatory }
DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-LCR-Information
                                    DL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL.
    . . .
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD }
DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory
}
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
                                        DL-Timeslot-LCR-Information,
    dL-Timeslot-LCR-Information
    tSTD-Indicator
                                    TSTD-Indicator,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= Protocolle-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
                                                          TYPE DCH-InformationResponse PRESENCE mandatory }
    { ID id-DCH-InformationResponse CRITICALITY ignore
DSCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-SetupRspTDD}}
```

```
Release 4
                                                                     25
                                                                                       3GPP TS 25.423 V4.0.0 (2001-03)
DSCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                         CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
DSCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-SetupRspTDD
DSCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
   dsch-ID
                          DSCH-ID,
   dSCH-FlowControlInformation
                                  DSCH-FlowControlInformation,
   bindingID
                          BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
   iE-Extensions
                          ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-SetupRspTDD}}
USCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
USCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEOUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-SetupRspTDD
USCH-LCR-InformationItem-RL-SetupRspTDD ::= SEOUENCE {
   usch-ID
                              USCH-ID,
   bindingID
                              BindingID OPTIONAL,
    transportLayerAddress
                              TransportLayerAddress OPTIONAL,
    transportFormatManagement
                              TransportFormatManagement,
                              ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
     _ _
-- RADIO LINK SETUP FAILURE FDD
---
RadioLinkSetupFailureFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupFailureFDD-IEs}},
```

```
Release 4
                                                                          26
                                                                                             3GPP TS 25.423 V4.0.0 (2001-03)
                                    ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
    protocolExtensions
                                                                                                                           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
                                        CRITICALITY ignore TYPE UL-SIR
                                                                                         PRESENCE optional }
     ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                   PRESENCE optional },
    . . .
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 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 ::= {
    . . .
l
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-
SetupFailureFDD
                    PRESENCE mandatory
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    cause
                                Cause,
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

Re	elease 4	27 3GPP TS 25.423 V4.0.0 (2001-03)	
١			
ſ			
Un	UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {		
}			
	SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {SuccessfulRL- InformationResponse-RL-SetupFailureFDD-IEs} }		
Su }	<pre>ccessfulRL-InformationResponse-RL-Setupl { ID id-SuccessfulRL-InformationRespon PRESENCE mandatory }</pre>		
SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {		FailureFDD ::= SEOUENCE {	
	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	FDD-DL-CodeInformation,	
	diversityIndication	DiversityIndication-RL-SetupFailureFDD,	
		ity Indication IE and the choice based on the diversity indication as described in	
	the tabular message format in subc		
	sSDT-SupportIndicator	SSDT-SupportIndicator,	
	maxUL-SIR minUL-SIR	UL-SIR, UL-SIR,	
	closedlooptimingadjustmentmode	OL-SIR, Closedlooptimingadjustmentmode OPTIONAL,	
	maximumAllowedULTxPower	MaximumAllowedULTxPower,	
	maximumDLTxPower	DL-Power,	
	minimumDLTxPower	DL-Power, DL-Power,	
1	primaryCPICH-Power	PrimaryCPICH-Power,	
	dSCH-InformationResponse-RL-SetupFailu		
	neighbouring-UMTS-CellInformation	Neighbouring-UMTS-CellInformation OPTIONAL,	
	neighbouring-GSM-CellInformation	Neighbouring-GSM-CellInformation OPTIONAL,	
	iE-Extensions	ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,	
}			
Su	ccessfulRL-InformationResponse-RL-Setup { ID id-GA-CellAdditionalShapes	FailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional },	
ı			
ſ			
Di	versityIndication-RL-SetupFailureFDD :::	= CHOICE {	
		ning-RL-SetupFailureFDD,	
	-	ingOrFirstRL-RL-SetupFailureFDD	
}	-	-	

```
Release 4
                                                                     28
                                                                                       3GPP TS 25.423 V4.0.0 (2001-03)
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 ::= 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 ::= {
    . . .
    - -
-- RADIO LINK ADDITION RESPONSE FDD
_ _
   RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                                            {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                                      OPTIONAL,
    . . .
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
                                                        CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                              PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
    . . .
```

```
Release 4
                                                                          29
                                                                                            3GPP TS 25.423 V4.0.0 (2001-03)
                                                    ::= SEOUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-
RL-InformationResponseList-RL-AdditionRspFDD
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.
    qA-Cell
                                    GA-Cell
                                                OPTIONAL.
                                    GA-AccessPointPosition OPTIONAL,
    qA-AccessPointPosition
    received-total-wide-band-power Received-total-wide-band-power,
    secondary-CCPCH-Info
                                    Secondary-CCPCH-Info
                                                                OPTIONAL,
    dl-CodeInformation
                                    DL-CodeInformationList-RL-AdditionRspFDD,
    diversitvIndication
                                    DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
    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,
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                        PRESENCE optional },
    . . .
l
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	
}		

```
Release 4
                                                                      30
                                                                                       3GPP TS 25.423 V4.0.0 (2001-03)
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,
   iE-Extensions
                                             ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
     *****
_ _
-- RADIO LINK ADDITION RESPONSE TDD
      RadioLinkAdditionResponseTDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkAdditionResponseTDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                       OPTIONAL,
    . . .
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
                          CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD
                                                                                           PRESENCE mandatory
    --For 3.84Mcps TDD only |
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                                      RL-ID,
   uRA-Information
                                      URA-Information
                                                         OPTIONAL,
    sAI
                                      SAI,
   qA-Cell
                                      GA-Cell
                                                 OPTIONAL,
   qA-AccessPointPosition
                                      GA-AccessPointPosition OPTIONAL,
   ul-TimeSlot-ISCP-Info
                                      UL-TimeSlot-ISCP-Info,
   minUL-SIR
                                      UL-SIR,
```

Release 4 31 3GPP TS 25.423 V4.0.0 (2001-03) maxUL-SIR UL-SIR, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power. minimumDLTxPower DL-Power, pCCPCH-Power PCCPCH-Power, timingAdvanceApplied TimingAdvanceApplied, alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondary-CCPCH-Info-TDD Secondary-CCPCH-Info-TDD OPTIONAL, ul-CCTrCHInformation UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL, dl-CCTrCHInformation DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL, dCH-Information DCH-Information-RL-AdditionRspTDD OPTIONAL, dSCH-InformationResponse DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL, uSCH-InformationResponse USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL, neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL, neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL, iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, . . . RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional }, . . . UL-CCTrCHInformationList-RL-AdditionRspTDD ::= Protocolle-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}} UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE mandatory } UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRspTDD OPTIONAL, ProtocolExtensionContainer { { UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD } } UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory

}

```
Release 4
                                                                          32
                                                                                             3GPP TS 25.423 V4.0.0 (2001-03)
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength.
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD
                                                                                                                                        PRESENCE
mandatory }
l
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD
DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                CCTrCH-ID.
    cCTrCH-ID
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD
                                                             CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
                                    RepetitionLength,
    repetitionLength
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

3GPP TS 25.423 V4.0.0 (2001-03)

```
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication
                                        DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining
                    Combining-RL-AdditionRspTDD,
    nonCombining
                    NonCombining-RL-AdditionRspTDD
Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                        PRESENCE optional
NonCombining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
    iE-Extensions
                                    ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationListIEs-RL-AdditionRspTDD}}
DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE DSCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                             PRESENCE mandatory
}
DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD
DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
    transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    diversityIndication
                           DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

34

3GPP TS 25.423 V4.0.0 (2001-03)

```
. . .
DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress
                                                   OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs } } OPTIONAL,
    . . .
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
USCH-InformationResponse-RL-AdditionRspTDD ::= Protocolle-Single-Container {{USCH-InformationListles-RL-AdditionRspTDD}}
USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE USCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                            PRESENCE mandatory
}
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID
                            USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversitvIndication
                           DiversitvIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions
                            ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore
                                                                                    EXTENSION RL-LCR-InformationResponse-RL-AdditionRspTDD
    PRESENCE mandatory },
    --For 1.28Mcps TDD only
    . . .
}
RL-LCR-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE
    rL-ID
                                RL-ID,
    uRA-Information
                                URA-Information,
    sAI
                                SAI.
   gA-Cell
                                GA-Cell
                                            OPTIONAL,
    uTRAN-AccessPointPosition UTRAN-AccessPointPosition
                                                            OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR
                                UL-SIR,
```

35

3GPP TS 25.423 V4.0.0 (2001-03)

Release 4

Release 4	30	3GPP TS 25.423 V4.0.0 (2001-03)	
minUL-SIR	UL-SIR,		
pCCPCH-Power	PCCPCH-Power,		
maximumAllowedULTxPower	MaximumAllowedULTxPower,		
maximumDLTxPower	DL-Power,		
minimumDLTxPower	DL-Power,		
ul-PhysCH-SF-Variation	UL-PhysCH-SF-Variation,		
ul-CCTrCH-LCR-Information	UL-CCTrCH-LCR-InformationList-RL-SetupF	RspTDD OPTIONAL,	
dl-CCTrCH-LCR-Information	DL-CCTrCH-LCR-InformationList-RL-SetupF	RspTDD OPTIONAL,	
dCH-InformationResponse	DCH-InformationResponseList-RL-SetupRsp	pTDD OPTIONAL,	
dsch-LCR-InformationRespons	se DSCH-LCR-InformationResponse-RL-SetupRs	SpTDD OPTIONAL,	
usch-LCR-InformationRespons			
neighbouring-UMTS-CellInfo			
neighbouring-GSM-CellInform		,	
iE-Extensions			T א T
	Prococontactensioncontainer { {	RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs} } OPTION	IAL,
}			
RL-LCR-InformationResponseList	-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSIC	ON ::= {	
}			
,			
IIICCTrCH-LCR-InformationList-	RL-AdditionRspTDD ::= ProtocollE-Single-Container	r {{UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD }}	
		- ((or correct for intermedication of intermediate))	
III_CCTrCH_LCP_InformationListI	Es-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {		
	cmationListie-RL-AdditionRspTDD CRITICALITY igr	nore TYPE UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD	
PRESENCE mandatory }			
}			
UL-CCTrCH-LCR-InformationListI	E-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1maxNrC	OfCCTrCHsLCR)) OF UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD	
UL-CCTrCH-LCR-InformationItem-I	RL-AdditionRspTDD ::= SEQUENCE {		
cCTrCH-ID	CCTrCH-ID,		
ul-DPCH-LCR-Information	UL-DPCH-LCR-InformationList-RL-Addition	nRspTDD OPTIONAL,	
iE-Extensions		R-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,	
		A Informationiteem An Addition(Spibb Extins) j official,	
···			
}			
UL-CCTrCH-LCR-InformationItem-P	RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION	N ::= {	
• • •			
}			
UL-DPCH-LCR-InformationList-RL	-AdditionRspTDD ::= ProtocolIE-Single-Container {	{ {UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD} }	
UL-DPCH-LCR-InformationListIEs	-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {		
	-	nore TYPE UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE	
mandatory }		nore fills of bren fex informationicem As Addreiomospibb fixedmen	
}			
UL-DPCH-LCR-InformationItem-RL			
repetitionPeriod	RepetitionPeriod,		
repetitionLength	RepetitionLength,		
tDD-DPCHOffset	TDD-DPCHOffset,		
uL-TimeslotLCR-Information	UL-TimeslotLCR-Information,		
	,		

```
Release 4
```

```
36
```

3GPP TS 25.423 V4.0.0 (2001-03)

```
ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocollE-Single-Container {{DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD}
DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD PRESENCE
mandatory }
DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-LCR-Information
                                        DL-DPCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                            OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
                                    TDD-DPCHOffset,
    tDD-DPCHOffset
    dL-TimeslotLCR-Information
                                        DL-TimeslotLCR-Information,
    tSTD-Indicator
                                    TSTD-Indicator,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DCH-InformationResponseListIEs-RL-AdditionRspTDD}}
DCH-InformationResponseListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
```

```
Release 4
                                                                          37
                                                                                             3GPP TS 25.423 V4.0.0 (2001-03)
DSCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-AdditionRspTDD}}
DSCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
DSCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-AdditionRspTDD
DSCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID.
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress
                                                    OPTIONAL,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-AdditionRspTDD}}
USCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
USCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-AdditionRspTDD
USCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    transportFormatManagement
                               TransportFormatManagement,
    diversityIndication
                                DiversityIndication-RL-AdditionRspTDD2
                                                                            OPTIONAL,
                                ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Neighbouring-GSM-CellInformation-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationItem-RL-AdditionRspTDD }}
Neighbouring-GSM-CellInformationItem-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
```

{ ID id-Neighbouring-GSM-CellInformation CRITICALITY ignore TYPE Neighbouring-GSM-CellInformation PRESENCE mandatory }}

38

****** ____ -- 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 GeneralCauseList-RL-AdditionFailureFDD, generalCause rLSpecificCause RLSpecificCauseList-RL-AdditionFailureFDD, . . . 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 ::= {

```
Release 4
```

```
39
```

3GPP TS 25.423 V4.0.0 (2001-03)

```
CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD
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 ::= {
    . . .
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-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-ID
                                        RL-ID,
    rL-Set-ID
                                        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,
    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,
    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 },
```

. . .

}

40

3GPP TS 25.423 V4.0.0 (2001-03)

```
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-RL-AdditionFailureFDD,
    combining
    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 ::= {
    . . .
```

R3-011392

	CHANGE REQUEST									
^ж 25	. <mark>423</mark>	3	CR <mark>364</mark>	ж	rev	ж	Current vers	ion:	3.5.0	Ħ
For <u>HELP</u> on U	using	this forn	n, see bottom	of this pag	ge or l	look at th	e pop-up text	over	the	nbols.
Proposed change	affec	cts: ¥	(U)SIM	ME/UE		Radio Ad	ccess Network	K X	Core Ne	etwork
Title: ¥	a Ad	ldition of	the missing I	<mark>Es in the F</mark>	RL Set	<mark>tup Resp</mark>	onse and RL	Additi	<mark>on Respo</mark>	onse
Source: ¥	R-N	WG3								
Work item code: ₩	B TE	1					<i>Date:</i> ೫	May	/ 2001	
Category: #	F						Release: ೫	R99)	
	Deta	F (esse A (corre B (Addi C (Fund D (Edito ailed expl	ne following cate ntial correction esponds to a co tion of feature), ctional modifica- orial modificatio anations of the GPP TR 21.900) prrection in a tion of featu n) above cate	ure)		Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	(GSM (Relea (Relea (Relea	l Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	eases:
Reason for change	: ¥		imary Scramb							
			SRB Delay IEs are missing in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message.							
			In addition, the <i>PC Preamble</i> and <i>SRB Delay</i> IEs are missing in the RADIO LINK ADDITION FAILURE message.							
		-	Changes compared to the CR agreed at RAN3 #20:							
		- The missing Primary CPICH Power IE in the RADIO LINK SETUP FAILURE is added by the CR362.								
Summary of chan	ge: Ж									
		- The <i>Primary Scrambling Code</i> , <i>UL UARFCN</i> , <i>DL UARFCN</i> , <i>PC Preamble</i> and <i>SRB Delay</i> IEs are included in the RADIO LINK SETUP FAILURE message.								
			PC Preamble a RE message.	and SRB [Delay	IEs are ir	ncluded in RA	DIO L	INK ADD	DITION
Consequences if not approved:	ж	possibl Additic	rtial successfu e. onal informatio oposed chang	on:		·		proce	dures are	e not
Clauses affected:	ж	9.1.5.	1, 9.1.8.1 and	9.3.3.						
Other specs affected:	ж	Tes	ner core speci st specificatior M Specificatio	าร	Ħ	CR365	Rel-4			
Other comments:	ж									

How to create CRs using this form:

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

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

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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		-	10,001
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		9.2.1.12		YES	ignore
CHOICE Cause Level	M		0.2.1.11		YES	ignore
>General	101				-	ignore
>>Cause	М		9.2.1.5		_	
>RL Specific	101		0.2.1.0		_	
>>Unsuccessful RL		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>Ignore</td></maxn<>			EACH	Ignore
Information Response		oofRLs>			LACIT	ignore
>>>RL ID	М	00ITTE32	9.2.1.49		_	
>>>Cause	M		9.2.1.5			
>>Successful RL	171	0 <maxno< td=""><td>3.2.1.3</td><td></td><td>EACH</td><td>ignoro</td></maxno<>	3.2.1.3		EACH	ignoro
Information Response		ofRLs-1>			EACH	ignore
>>>RL ID	М	01723-12	9.2.1.49			
>>>RL ID >>>RL Set ID	M				_	
			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 Info	0		9.2.2.37B		-	
>>>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>Diversity Indication	Μ		9.2.1.21		_	
>>>CHOICE Diversity Indication	М				-	
>>>Combining					_	
>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	_	
>>>>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		9.2.1.09 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 9.2.2.10		_	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Primary Scrambling Code	<u>0</u>		<u>9.2.1.45</u>		=	
>>>UL UARFCN	<u>0</u>		<u>UARFCN</u> 9.2.1.66	Corresponds to Nu in ref. [6]	=	
>>>DL UARFCN	<u>0</u>		<u>UARFCN</u> 9.2.1.66	Corresponds to Nd in ref. [6]	=	
>>>DSCH Information Response	0		DSCH 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		YES	ignore
>>>PC Preamble	M		<u>9.2.2.27a</u>		_	
>>>SRB Delay	Μ		9.2.2.39A		-	
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.

9.1.8 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	Μ		9.2.1.59		_	
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-1>				.9
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>Successful RL		0 <maxnoof< td=""><td>0.2.110</td><td></td><td>EACH</td><td>ignore</td></maxnoof<>	0.2.110		EACH	ignore
Information Response		RLs-2>			2/(011	ignore
>>>RL ID	М	1120 27	9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		_	
>>URA Information	0		9.2.1.70B		_	
>>>SAI	M	1	9.2.1.70B 9.2.1.52		1	
>>>Cell GAI	0	+	9.2.1.52 9.2.1.5A		-	
>>>UTRAN Access	0		9.2.1.5A 9.2.1.70A		_	
Point Position					_	
>>>Received Total Wide Band Power	Μ		9.2.2.35A		-	
>>>Secondary CCPCH Info	0		9.2.2.37B		-	
>>>DL Code	М		FDD DL		YES	ignore
Information			Code			5
			Information			
			9.2.2.14A			
>>>Diversity Indication	Μ		9.2.1.21		_	
>>>CHOICE Diversity Indication	М				-	
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>Non Combining					-	
>>>>DCH	М		9.2.1.16A		_	
Information Response			0.2.1110/1			
>>>SSDT Support	М	1	9.2.2.43		_	
			0.2.2.70			
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Closed Loop Timing	0		9.2.1.69 9.2.2.3A		-	
Adjustment Mode	М		9.2.1.35		_	
UL Tx Power >>>Maximum DL TX	Μ		DL Power		_	
Power >>>Minimum DL TX	M		9.2.2.10 DL Power			
Power			9.2.2.10		-	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>>>PC Preamble	M		<u>9.2.2.27a</u>		Ξ	
>>>SRB Delay	M		<u>9.2.2.39A</u>		_	
Criticality Diagnostics	0		9.2.1.13		YĒS	ignore

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

3GPP TS 25.423 V3.5.0(2001-03)

9.3.3 PDU Definitions

-- Only the affected parts are included.

********** _ _ -- 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 PRESENCE optional CRITICALITY ignore TYPE CN-PS-DomainIdentifier 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 CRITICALITY ignore TYPE UL-SIR PRESENCE optional } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . CauseLevel-RL-SetupFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-SetupFailureFDD, rLSpecificCause RLSpecificCauseList-RL-SetupFailureFDD, . . . GeneralCauseList-RL-SetupFailureFDD ::= SEOUENCE 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 ::= {
}
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-
SetupFailureFDD
                    PRESENCE mandatory }
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEOUENCE {
    rL-ID
                                RL-ID,
    cause
                                Cause,
    iE-Extensions
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    . . .
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
                                            SAI,
                                            GA-Cell
    qA-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,
    -- 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,
    maxUL-SIR
                                            UL-SIR,
    minUL-SIR
                                            UL-SIR,
    closedlooptimingadjustmentmode
                                            Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                            MaximumAllowedULTxPower,
    maximumDLTxPower
                                            DL-Power,
    minimumDLTxPower
                                            DL-Power,
```

3GPP TS 25.423 V3.5.0(2	2001-03)
-------------------------	----------

Nelease 1555		5	3611 10 23.423 43.5.0(2001-
primaryScramblingCode	PrimaryScramblingC	Code OPTIONAL,	
uL-UARFCN	UARFCN	OPTIONAL,	
dl-uarfCN	UARFCN	OPTIONAL,	
dSCH-InformationResponse-F	_	SCH-InformationResponseList-RL-SetupFail	lureFDD OPTIONAL,
neighbouring-UMTS-CellInfo	5	ing-UMTS-CellInformation OPTIONAL,	
neighbouring-GSM-CellInfor	-	ing-GSM-CellInformation OPTIONAL,	
pC-Preamble	PC-Preamble,		
sRB-Delay	SRB-Delay,	utonaion Containon ((Cuasastul DI Inform	mationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
iE-Extensions	Protocolex	xtensioncontainer { {SuccessiuiRL-inform	macionResponse-RL-SecupraliurerDD-Excles} } OPTIONAL,
}			
Successful PI - Information Perpor	nce_PI_SetupFailureFDD_Fa	xtIEs RNSAP-PROTOCOL-EXTENSION ::= {	
···	ISE-KL-SecupratituterDD-Ex	KULES KNSAP-PROTOCOL-EXTENSION ··- {	
}			
DiversityIndication-RL-SetupFa	ailureFDD ::= CHOICE {		
combining	Combining-RL-Setup	pFailureFDD,	
nonCombiningOrFirstRL	NonCombiningOrFirstRL-		
Combining-RL-SetupFailureFDD	::= SFOUENCE {		
rL-ID	RL-ID,		
iE-Extensions		ainer { { CombiningItem-RL-SetupFailure	FDD-ExtIEs} } OPTIONAL,
CombiningItem-RL-SetupFailure	FDD-ExtIEs RNSAP-PROTOCOI	L-EXTENSION ::= {	
1			
JonCombiningOrFirstRL-RL-Setur	PESILVESTO SECULENCE	ſ	
dCH-InformationResponse		۱ mationResponse,	
iE-Extensions			stRLItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
	1100000124		
,			
JonCombiningOrFirstRLItem-RL-S	SetupFailureFDD-ExtIEs RM	NSAP-PROTOCOL-EXTENSION ::= {	
····	secupiariarerss shores in		
}			
)SCH-InformationResponseList-F	<pre></pre>	rotocolIE-Single-Container {{ DSCH-Info	rmationResponseListIEs-RL-SetupFailureFDD }}
OSCH-InformationResponseListI	Es-RL-SetupFailureFDD RNS	SAP-PROTOCOL-IES ::= {	
-	-	Y ignore TYPE DSCH-FDD-InformationResp	ponse PRESENCE mandatory }
}	÷		
RadioLinkSetupFailureFDD-Exter	DEIONE DNGAD-DDOTOCOI - EVI	TENSTON ··- {	
	ISTOUS KNSAP-PROTOCOL-EAT	TENDION ··= {	
}			
J			

9

Release 1999

3GPP TS 25.423 V3.5.0(2001-03)

-- Only the affected parts are included.

```
___
-- RADIO LINK ADDITION FAILURE FDD
_ _
RadioLinkAdditionFailureFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkAdditionFailureFDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
    . . .
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                                                            TYPE CauseLevel-RL-AdditionFailureFDD
                                                            CRITICALITY
                                                                            ignore
       PRESENCE
                 mandatory }
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
    . . .
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
                      RLSpecificCauseList-RL-AdditionFailureFDD,
    . . .
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,
   iE-Extensions
                                             ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                 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,
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-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-ID
                                        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,
    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,
    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 ::= {
    . . .
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 ::= {
    . . .
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
    iE-Extensions
                                                 ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
}
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
1
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

R3-011393

CR-Form-v3

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, May 21 st – 25 th , 2001

CHANGE REQUEST											
^ж 25	.423	3	CR <mark>365</mark>	ж	rev	ж	Current vers	ion:	4.0.0	ж	
For <u>HELP</u> on	using	this form	n, see bottom o	of this pag	ge or l	ook at th	e pop-up text	over	the # syr	nbols.	
Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network											
Title: # Addition of the missing IEs in the RL Setup Response and RL Addition Response											
Source: ៖	Source: # R-WG3										
Work item code: \$	€ TE	1					<i>Date:</i> ೫	Ma	y 2001		
Category: 3	€ <mark>A</mark>						Release: ೫	RE	L-4		
	Deta	F (esse A (corre B (Addi C (Fund D (Edito ailed expl	the following cate ential correction) esponds to a con- ition of feature), ctional modification prial modification lanations of the a GPP TR 21.900	rrection in a ion of featu 1) above cate	ıre)		Use <u>one</u> of 2 R96 R97 R98 R99 REL-4 REL-5	(GSN (Rele (Rele (Rele (Rele (Rele	Mowing rele A Phase 2) ease 1996) ease 1997) ease 1998) ease 1999) ease 4) ease 5)	eases:	
Reason for change	e: ¥	SRB D RADIO	imary Scrambl elay IEs are m LINK SETUP tion, the PC Pl	issing in t FAILURE	he Su mes	ccessful sage.	RL Informatio	on Re	esponse IE	of the	
			ION FAILURE			,					
Summary of chan	ge: ₩	- The F SRB D - The F FAILUF Change	Primary Scrami Pelay IEs are in PC Preamble a RE message. es compared to hissing Primary (CR362.	cluded in nd <i>SRB L</i> o the CR	the R Delay I agree	ADIO LIN Es are in d at RAN	NK SETUP FA Included in RA	ailúf Dio I	RE messa LINK ADD	ge. ITION	
Consequences if not approved:	ж	possibl Additio	rtial successfu le. onal informatio roposed chang	n:				proce	edures are	e not	
Clauses affected:	ж	9.1.5.	1, 9.1.8.1 and	9.3.3.							
Other specs affected:	ж	Te	ner core specifi st specification M Specificatio	S	ж	CR364	R99				
Other comments:	ж										

How to create CRs using this form:

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

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

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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
CHOICE Cause Level	M		0.2.1.11		YES	ignore
>General	171				-	ignore
>>Cause	М		9.2.1.5			
>RL Specific	IVI		9.2.1.5		_	-
>>Unsuccessful RL		1				
		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxn<>			EACH	ignore
Information Response		oofRLs>	0.0.4.40			
>>>RL ID	M		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>Successful RL Information Response		0 <maxno ofRLs-1></maxno 			EACH	ignore
>>>RL ID	Μ		9.2.1.49		_	
>>>RL Set ID	М		9.2.2.35		_	
>>>URA Information	0	1	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
>>>Diversity Indication	М		9.2.1.21		_	
>>>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
>>>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	М		9.2.1.35		-	
>>>Maximum DL TX Power	М		DL Power 9.2.2.10		-	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Primary Scrambling Code	<u>O</u>		<u>9.2.1.45</u>		=	
>>>UL UARFCN	<u>0</u>		<u>UARFCN</u> 9.2.1.66	Corresponds to Nu in ref. [6]	=	
>>>DL UARFCN	<u>0</u>		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	Ξ	
>>>DSCH Information Response	0		DSCH 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	M		<u>9.2.2.27a</u>		<u>-</u>	
>>>SRB Delay	M		<u>9.2.2.39A</u>		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		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.			

9.1.8 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	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
CHOICE Cause Level	Μ				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	М		9.2.1.5		-	
>>Successful RL Information Response		0 <maxnoof RLs-2></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	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>>>Diversity Indication	М		9.2.1.21		_	
>>>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	Μ		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 9.2.2.10		-	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>PC Preamble	M		<u>9.2.2.27a</u>		-	
>>>SRB Delay	M		<u>9.2.2.39A</u>		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

7

9.3.3 PDU Definitions

-- Only the affected parts are included. -- RADIO LINK SETUP FAILURE FDD ****** RadioLinkSetupFailureFDD ::= SEQUENCE { {{RadioLinkSetupFailureFDD-IEs}}, protocolIEs ProtocolIE-Container 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 PRESENCE optional CRITICALITY ignore TYPE CN-CS-DomainIdentifier ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } | CRITICALITY ignore TYPE UL-SIR PRESENCE optional } ID id-UL-SIRTarget { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . CauseLevel-RL-SetupFailureFDD ::= CHOICE { GeneralCauseList-RL-SetupFailureFDD generalCause rLSpecificCause RLSpecificCauseList-RL-SetupFailureFDD, . . . 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, ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, iE-Extensions . . .

```
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEOUENCE (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-
SetupFailureFDD
                    PRESENCE mandatory }
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEOUENCE {
    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
                                            SAI,
    qA-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,
    -- 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,
    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,
dSCH-InformationResponse-RL-Se	tupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
neighbouring-UMTS-CellInformat:	ion Neighbouring-UMTS-CellInformation OPTIONAL,
neighbouring-GSM-CellInformation	ON Neighbouring-GSM-CellInformation OPTIONAL,
pC-Preamble	PC-Preamble,
sRB-Delay	SRB-Delay,
iE-Extensions	ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
}	
<pre>SuccessfulRL-InformationResponse-R: { ID id-GA-CellAdditionalShape: }</pre>	L-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { s CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional },
DiversityIndication-RL-SetupFailure combining nonCombiningOrFirstRL Nor }	eFDD ::= CHOICE { Combining-RL-SetupFailureFDD, nCombiningOrFirstRL-RL-SetupFailureFDD
	EQUENCE { -ID, otocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
CombiningItem-RL-SetupFailureFDD-E	xtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-DCH-InformationResponse }	e CRITICALITY ignore EXTENSION DCH-InformationResponse PRESENCE optional }
<pre>NonCombiningOrFirstRL-RL-SetupFail dCH-InformationResponse iE-Extensions }</pre>	ureFDD ::= SEQUENCE { DCH-InformationResponse, ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
NewCombiningOutlingthDITtow DI	
	FailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}	
DSCH-InformationResponseList-RL-Se	tupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}
	-SetupFailureFDD RNSAP-PROTOCOL-IES ::= { sponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse PRESENCE mandatory }
RadioLinkSetupFailureFDD-Extension	s RNSAP-PROTOCOL-EXTENSION ::= {
}	

10

-- RADIO LINK ADDITION FAILURE FDD RadioLinkAdditionFailureFDD ::= SEOUENCE { protocolIEs ProtocolIE-Container {{RadioLinkAdditionFailureFDD-IEs}}, ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-CauseLevel-RL-AdditionFailureFDD TYPE CauseLevel-RL-AdditionFailureFDD CRITICALITY ignore PRESENCE mandatory } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }. . . . CauseLevel-RL-AdditionFailureFDD ::= CHOICE { generalCause GeneralCauseList-RL-AdditionFailureFDD, rLSpecificCause RLSpecificCauseList-RL-AdditionFailureFDD, . . . 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 { UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD, unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD successful-RL-InformationRespList-RL-AdditionFailureFDD SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } } 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 }

```
Release 4
```

. . .

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE rL-ID RL-ID, Cause, Callee ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL. iE-Extensions . . . UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ļ SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-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-ID 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-RL-AdditionFailureFDD, diversityIndication -- 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, 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 },

```
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 }
l
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 ::= {
    . . .
```

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, May 21st – 25th, 2001

	CR-Form-v3 CHANGE REQUEST									
^ж 25.	423 CR 366 [#] rev _ [#] Current version: 3.5.0 [#]									
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.									
Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network										
Title: ೫	Cell in CTrCh Resources Initialisation									
Source: ೫	R-WG3									
Work item code: ℜ	TEI Date: # May 2001									
Category: Ж	F Release: # R99									
	Use one of the following categories:Use one of the following releases:F (essential correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (Addition of feature),R97(Release 1997)C (Functional modification of feature)R98(Release 1998)D (Editorial modification)R99(Release 1999)Detailed explanations of the above categories can be found in 3GPP TR 21.900.REL-4(Release 4) REL-5									
	 * A moving UE may cause Cell Updates frequently. This may result in a situation on lur where a second Cell Update (in Uplink Signalling Transfer Procedure) is received by the SRNC when a 'Common Transport Channel Resources Initiatialisation' procedure belonging to the previous Cell Update is still ongoing. It is not possible for the SRNC to know in which cell the resources have been allocated when receiving 'Common Transport Channel Resources Response' message, if the optional C-ID is not included in the Common Transport Channel Resources Request message. By adding the C-ID IE into the 'Common Transport Channel Resources Response' message this possibility of ambiguity to which cell the DRNC and the SRNC have allocated the UE can be removed. Otherwise there could be a need for the SRNC to wait for the lur message transfer delay variation time after having received the 'Common Transport Channel Resources Response' message to be sure that there are no crossing signals. 									
	Updates to the agreed CR in RAN3 #20: A clarification which C-ID is included in the 'Common Transport Channel Resources Response' message is added into the procedure text.									
Consequences if not approved:	 In case a new Cell Update occurs when Common Transport Channel Initiation Procedure is ongoing there might be a mismatch between DRNC and SRNC of the cell in which the UE has been allocated. This change is backward compatible. 									

Clauses affected:	ж (% 8.4.1.2, 9.1.36.1, 9.1.36.2, 9.3.3.									
Other specs	жХ	Other core specifications # CR367 TS 25.423 (rel4)									
affected:		Test specifications O&M Specifications									
Other comments:	ж										

How to create CRs using this form:

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

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

8.4.1.2 Successful Operation

SR	NC	DRNC
	COMMON TRANSPORT CHANNEL RESOURCES REQUEST	
	COMMON TRANSPORT CHANNEL RESOURCES RESPONSE	

Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST to the DRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE and include the *Binding ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to" Bearer not Requested", the DRNC shall use the transport bearer indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell indicated by the *C-ID* IE and the corresponding *C-ID* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell where the UE is located and the corresponding *C-ID* IE. The DRNC shall include the *FACH Scheduling Priority* IE and *FACH Initial Window Size* IE in the *FACH Flow Control Information* IE of the *FACH Info for UE Selected S-CCPCH* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If the DRNS has any RACH, [FDD - CPCH,] and/or FACH resources previously allocated for the UE in another cell than the cell where resources are currently being allocated, the DRNS shall release the previously allocated RACH, [FDD - CPCH,] and/or FACH resources.

If the DRNS has successfully reserved the required resources, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

9.1.36.1 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		_	-
S-RNTI	М		9.2.1.53		YES	ignore
C-RNTI	0		9.2.1.14		YES	ignore
FACH Info for UE Selected S-CCPCH		1			YES	ignore
>FACH Flow Control Information	М		9.2.1.26C		YES	ignore
Transport Layer Address	0		9.2.1.62		YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	Ignore
<u>C-ID</u>	M		<u>9.2.1.6</u>		YES	ignore

9.1.36.2 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	Μ		9.2.1.59		_	
S-RNTI	М		9.2.1.53		YES	ignore
C-RNTI	0		9.2.1.14		YES	ignore
FACH Info for UE Selected S-CCPCHs		1			YES	ignore
>FACH Flow Control Information	М		9.2.1.26C		YES	ignore
Transport Layer Address	0		9.2.1.62		YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	Ignore
<u>C-ID</u>	M		9.2.1.6		YES	ignore

9.3.3 PDU Definitions

-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE FDD CommonTransportChannelResourcesResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseFDD-Extensions}} OPTIONAL. . . . } CommonTransportChannelResourcesResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-S-RNTI CRITICALITY ignore TYPE S-RNTI PRESENCE mandatory } | { ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE optional } | { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD PRESENCE mandatory } | { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress PRESENCE optional } | { ID id-BindingID CRITICALITY ignore TYPE BindingID PRESENCE optional } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . }

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
 fACH-FlowControlInformation FACH-FlowControlInformation-CTCH-ResourceRspFDD,

4

```
iE-Extensions
                                 ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-
CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
}
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-Extles RNSAP-PROTOCOL-EXTENSION ::= {
}
FACH-FlowControlInformation-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ FACH-
FlowControlInformationIEs-CTCH-ResourceRspFDD }}
FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
   { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation
   PRESENCE mandatory }
}
CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-C-ID CRITICALITY ignore EXTENSION C-ID PRESENCE mandatory },
   . . .
}
_ _
-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
CommonTransportChannelResourcesResponseTDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
{{CommonTransportChannelResourcesResponseTDD-IEs}},
                                ProtocolExtensionContainer
   protocolExtensions
{{CommonTransportChannelResourcesResponseTDD-Extensions}}
                                                              OPTIONAL.
}
CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-S-RNTI
                                CRITICALITY ignore TYPE S-RNTI
                                                                             PRESENCE
mandatory } |
   { ID id-C-RNTI
                                CRITICALITY ignore TYPE C-RNTI
                                                                             PRESENCE
          } |
optional
   { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-
InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE mandatory } |
   { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress
   PRESENCE optional } |
   { ID id-BindingID
                               CRITICALITY ignore TYPE BindingID
                                                                                 PRESENCE
optional
   { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
   PRESENCE optional },
   . . .
}
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
                                FACH-FlowControlInformation-CTCH-ResourceRspTDD,
   fACH-FlowControlInformation
                                ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-
   iE-Extensions
CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
   . . .
}
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
FACH-FlowControlInformation-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ FACH-
FlowControlInformationIEs-CTCH-ResourceRspTDD }}
FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
   { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation
   PRESENCE mandatory }
}
CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
 { ID id-C-ID
                 CRITICALITY ignore EXTENSION C-ID PRESENCE mandatory },
  _...
```

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, May 21st – 25th, 2001

CHANGE REQUEST							
[#] 25.42	23 CR 367 [#] rev - [#] Current version: 4.0.0 [#]						
For <u>HELP</u> on usir	ng this form, see bottom of this page or look at the pop-up text over the $#$ symbols.						
Proposed change aff	ects: # (U)SIM ME/UE Radio Access Network X Core Network						
Title: ೫ 🤇	Cell in CTrCh Resources Initialisation						
Source: ೫ <mark>।</mark>	R-WG3						
Work item code: 🕇	רבו באד דער דער דער דער דער דער דער דער דער דע						
Category: #	A Release: # REL-4						
D	se one of the following categories:Use one of the following releases:F (essential correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (Addition of feature),R97(Release 1997)C (Functional modification of feature)R98(Release 1998)D (Editorial modification)R99(Release 1999)etailed explanations of the above categories canREL-4(Release 4)e found in 3GPP TR 21.900.REL-5(Release 5)						
Posson for change:	# A moving UE may cause Cell Updates frequently. This may result in a situation on						
Reason for change.	 A moving OE may cause Cell Opdates frequently. This may result in a stuation of lur where a second Cell Update (in Uplink Signalling Transfer Procedure) is received by the SRNC when a 'Common Transport Channel Resources Initiatialisation' procedure belonging to the previous Cell Update is still ongoing. It is not possible for the SRNC to know in which cell the resources have been allocated when receiving 'Common Transport Channel Resources Response' message, if the optional C-ID is not included in the Common Transport Channel Resources Response' message this possibility of ambiguity to which cell the DRNC and the SRNC have allocated the UE can be removed. Otherwise there could be a need for the SRNC to wait for the lur message transfer delay variation time after having received the 'Common Transport Channel Resources that there are no crossing signals. 						
Summary of change:	 The Cell Identifier (C-ID) has been added into the Common Transport Channel Resources Response message. Updates to the agreed CR in RAN3 #20: A clarification which C-ID is included in the 'Common Transport Channel Resources Response' message is added into the procedure text. 						
Consequences if not approved:	 In case a new Cell Update occurs when Common Transport Channel Initiation Procedure is ongoing there might be a mismatch between DRNC and SRNC of the cell in which the UE has been allocated. This change is backward compatible. 						

Clauses affected:	ж (8.4.1.2 , 9.1.36.1 , 9.1.36.2 , 9.3.3 .						
Other specs	жХ	Other core specifications # CR366 TS 25.423 (R99)						
affected:		Test specifications O&M Specifications						
Other comments:	ж							

How to create CRs using this form:

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

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

8.4.1.2 Successful Operation

SR	NC	DRNC
	COMMON TRANSPORT CHANNEL RESOURCES REQUEST	
	COMMON TRANSPORT CHANNEL RESOURCES RESPONSE	

Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST to the DRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE and include the *Binding ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to" Bearer not Requested", the DRNC shall use the transport bearer indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell indicated by the *C-ID* IE and the corresponding *C-ID* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell where the UE is located and the corresponding *C-ID* IE. The DRNC shall include the *FACH Scheduling Priority* IE and *FACH Initial Window Size* IE in the *FACH Flow Control Information* IE of the *FACH Info for UE Selected S-CCPCH* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If the DRNS has any RACH, [FDD - CPCH,] and/or FACH resources previously allocated for the UE in another cell than the cell where resources are currently being allocated, the DRNS shall release the previously allocated RACH, [FDD - CPCH,] and/or FACH resources.

If the DRNS has successfully reserved the required resources, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

9.1.36.1 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		-	
S-RNTI	М		9.2.1.53		YES	ignore
C-RNTI	0		9.2.1.14		YES	ignore
FACH Info for UE Selected S-CCPCH		1			YES	ignore
>FACH Flow Control Information	М		9.2.1.26C		YES	ignore
Transport Layer Address	0		9.2.1.62		YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	Ignore
<u>C-ID</u>	M		<u>9.2.1.6</u>		YES	ignore

9.1.36.2 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	Μ		9.2.1.59		_	
S-RNTI	М		9.2.1.53		YES	ignore
C-RNTI	0		9.2.1.14		YES	ignore
FACH Info for UE Selected S-CCPCHs		1			YES	ignore
>FACH Flow Control Information	М		9.2.1.26C		YES	ignore
Transport Layer Address	0		9.2.1.62		YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	Ignore
C-ID	M		9.2.1.6		YES	ignore

9.3.3 PDU Definitions

3

```
-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE FDD
CommonTransportChannelResourcesResponseFDD ::= SEQUENCE {
   protocolIEs
                              ProtocolIE-Container
{{CommonTransportChannelResourcesResponseFDD-IEs}},
   protocolExtensions
                              ProtocolExtensionContainer
{{CommonTransportChannelResourcesResponseFDD-Extensions}}
                                                          OPTIONAL.
   . . .
}
CommonTransportChannelResourcesResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-S-RNTI
                         CRITICALITY ignore TYPE S-RNTI
                                                                         PRESENCE
mandatory } |
   { ID id-C-RNTI
                              CRITICALITY ignore TYPE C-RNTI
                                                                         PRESENCE
optional
          } |
   { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-
InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD
                                           PRESENCE mandatory } |
   { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress
   PRESENCE optional } |
{ ID id-BindingID
                              CRITICALITY ignore TYPE BindingID
                                                                            PRESENCE
optional
          } |
   { ID id-CriticalityDiagnostics
                                    CRITICALITY ignore TYPE CriticalityDiagnostics
   PRESENCE optional },
   . . .
}
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
```

fACH-FlowControlInformation FACH-FlowControlInformation-CTCH-ResourceRspFDD,

4

ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCHiE-Extensions CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL, } FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-Extles RNSAP-PROTOCOL-EXTENSION ::= { } FACH-FlowControlInformation-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD }} FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation PRESENCE mandatory } } CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-C-ID CRITICALITY ignore EXTENSION C-ID PRESENCE mandatory }, . . . } _ _ -- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD CommonTransportChannelResourcesResponseTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesResponseTDD-IEs}}, ProtocolExtensionContainer protocolExtensions {{CommonTransportChannelResourcesResponseTDD-Extensions}} OPTIONAL. } CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-S-RNTI CRITICALITY ignore TYPE S-RNTI PRESENCE mandatory } | { ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE } | optional { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE mandatory } | { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress PRESENCE optional } | { ID id-BindingID CRITICALITY ignore TYPE BindingID PRESENCE optional { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE { FACH-FlowControlInformation-CTCH-ResourceRspTDD, fACH-FlowControlInformation ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCHiE-Extensions CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL, . . . } FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { } FACH-FlowControlInformation-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD }} FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= { { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation PRESENCE mandatory } } CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-C-ID CRITICALITY ignore EXTENSION C-ID PRESENCE mandatory }, _...

	CR-Form-v3
ж	25.423 CR 368 * rev * Current version: 3.5.0 *
For HELP on us	sing this form, see bottom of this page or look at the pop-up text over the % symbols.
Proposed change a	
Title: #	Alignment of Neighbouring GSM Cell Information with RRC
Source: #	R-WG3
Work item code: #	TEI Date: ೫ May, 2001
Category: #	F Release: % R99
	Use one of the following categories:Use one of the following releases:F (essential correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (Addition of feature),R97(Release 1997)C (Functional modification of feature)R98(Release 1998)D (Editorial modification)R99(Release 1999)Detailed explanations of the above categories canREL-4(Release 4)be found in 3GPP TR 21.900.REL-5(Release 5)
Reason for change	 In the current RNSAP specification the Neighbouring GSM Cell Information is not aligned with RRC. When the neighbouring cell information was introduced in RNSAP it was done with 100% alignment with RRC v3.4.0 (even including the "undefined" <i>GSM Output Power</i> IE). The alignment was made with the information provided on GSM cells in the Measurement Control procedure. However, in v3.6.0 the specifications are inconsistent. The current information in RRC provided for measurements on GSM cells in connected mode is: * Cell Individual Offset * BSIC * Band Indicator * BCCH ARFCN * Output Power (Optional) Consequently the Q-Offset Serving to Neighbour, Q-RxlevMin, and Maximum Allowed UL Tx Power have been removed. Further more the Cell Individual Offset and the Band Indicator have been added.
Summary of chang	 Further more, since the Output Power parameter is still undefined it is of no use. E: # The CR attempts to align the Neighbouring GSM cell Information in RSNAP with the information provided for GSM cells in the Measurement Control procedure. To do this the following IEs shall be removed: * Q-Offset Serving to Neighbour * Q-RxlevMin * Maximum Allowed UL Tx Power And the following IEs shall be added: * Cell individual offset

		* Band indicator		
		Furthermore, the GSM Output Po a value range.)We	er IE is removed since it is not useful without
Consequences if not approved:	ж	If this CR is not approved the me not work properly.	as	urements on GSM cells in Cell_DCH state will
		Backward compatibility:		
				h the previous version of RNSAP, except for
		5 5	-	Cells. Since the current Neighbouring GSM hing what is used in RRC it does not work
				serror an incompatible change is justified.
				orrer an meenipaliere shange to juelinea.
Clauses affected:	ж	8.3.1.2, 8.3.4.2, 8.3.7.2, and 9.2.	1.2	A.
Other specs	Ж	X Other core specifications	Ж	25.423 CR 369 Rel-4
affected:		Test specifications		
	[O&M Specifications		
Other comments:	ж			

How to create CRs using this form:

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

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

8.3.1.2 Successful Operation

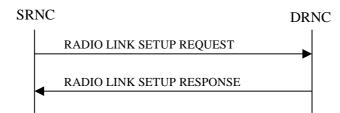


Figure 5: Radio Link Setup procedure: Successful Operation

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).

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall assign a new D-RNTI for this UE.

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

[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 on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then 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 an RL is to be combined, the DRNS shall choose which RL(s) to combine it with.]

[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.]

If the RADIO LINK SETUP 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.

[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.]

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

[TDD - If the *Primary CCPCH RSCP* IE and/or the *DL Time Slot ISCP Info* IE are present, the DRNC should use the indicated values when deciding the Initial DL TX Power.]

[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 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 – The DRNS shall start the 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 concerning RLS or a DL POWER CONTROL REQUEST message is received. 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) with DPC_MODE=0 and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the 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 concerning 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).]

[TDD - If the *DCH Information* IE is present in 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.

[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. [4]. If the QE-Selector is set to "non-selected ", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

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

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE, the DRNS 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 *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 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 immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value.]

[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.]

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates 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 or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully established.

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]. 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 message RADIO LINK SETUP RESPONSE message.

[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.]

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

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

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS 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 UE Context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS 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 UE context.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL. In this case the Reference *RL ID* IE shall be included to indicate with which RL the combination is performed. The Reference *RL ID* IE shall be included for all but one of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

[FDD - In the case of not combining an RL with another RL, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that no combining is performed. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH and DSCH of the RL in the RADIO LINK SETUP RESPONSE message.]

[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 case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *Binding ID* IE and the *Transport Layer Address* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

[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.]

For any cell neighbouring a cell in which a RL was established, the DRNS shall also provide the SRNC with the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD - Cell Parameter ID, the Sync Case, the SCH Time Slot information, the Block STTD Indicator] and the node identification of the CN nodes connected to the RNC controlling the neighbouring cell if the UMTS neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD - CPICH Power level, cell individual offset]/[TDD - PCCPCH Power level, DPCH Constant Value] and Frame Offset of the UMTS neighbouring cell.

If a UMTS neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC and CN domain nodes) of the RNC controlling the UMTS neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx Diversity Indicator* IE and Tx diversity capability (i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE) in the *Neighbouring FDD Cell Information* IE].

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK SETUP RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the <u>Cell Individual Offset GSM Output Power</u> IE in the *Neighbouring GSM Cell Information* IE.

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall include the node identifications of the CN Domain nodes that the RNC is connected to (using LAC and RAC of the current cell), and the *D-RNTI* IE in the RADIO LINK SETUP RESPONSE message.

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

[TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include <u>the</u> UARFCN IE, the Cell Parameter ID IE, the Sync Case IE, the SCH Time Slot IE, the Block STTD Indicator <u>IE</u>, and the PCCPCH Power IE in the RADIO LINK SETUP RESPONSE message.]

[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 DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE

message the *Secondary CCPCH Info* IE for the FACH where 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.]

6

[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.]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

After sending of 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. [FDD - The DRNS shall start DL transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].] [TDD – The DRNS shall start transmission on the new RL immediately as specified in ref. [4].]

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

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

For each Radio Link established in a cell where at least one URA Identity is being broadcast, the DRNC shall include a URA Identity for this cell in 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 Identity of all other RNCs that are having at least one cell within the URA in the cell in the *URA Information* IE in the RADIO LINK SETUP RESPONSE message.

8.3.2.2 Successful Operation

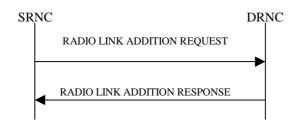


Figure 7: Radio Link Addition procedure: Successful Operation

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

Upon reception, 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.

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), then 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.

[FDD - If the *Primary CPICH Ec/No* IE measured by the UE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power. If the *Primary CPICH Ec/No* IE is not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[TDD - If the *Primary CCPCH RSCP* IE and/or the *DL Time Slot ISCP Info* IE are included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use them in the calculation of the Initial DL TX Power. If the *Primary CCPCH RSCP* IE and *DL Time Slot ISCP Info* IE are not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or a DL POWER CONTROL REQUEST message is received. 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) with DPC_MODE=0 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 innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).].

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

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT shall, if supported, be activated for the concerned new RL, with the indicated SSDT Cell Identity used for that RL.]

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

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to immediately activate all ongoing Transmission Gap Pattern Sequence(s) also in the new RL. For each sequence the *TGCFN* refers to latest passed CFN with that value. If *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the on going compressed mode pattern in the new RLs, but the on going pattern in the existing RL shall be maintained.]

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

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

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the 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 the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

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

In the case of not combining an RL with existing RL(s), the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication* IE that no combining is done. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, [TDD – and DSCH, USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the DCHs in the set of co-ordinated DCHs.

[TDD - If the radio link to be added includes a DSCH, the DRNC shall send a set of valid *DSCH Scheduling Priority* IE and *MAC-c/sh SDU Length* IE parameters to the SRNC in the message RADIO LINK ADDITION RESPONSE message.]

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

For any UMTS cell neighbouring a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the UMTS neighbouring cell if the UMTS neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE, *Cell Individual Offset* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the UMTS neighbouring cell.

If there are GSM neighbouring cells to the cell(s) where 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 <u>Cell Individual Offset GSM Output Power-IE</u> in the *Neighbouring GSM Cell Information* IE.

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.

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 DRNC shall also provide the selected scrambling and channelisation codes of the new RLs in order to enable the SRNC to inform the UE about the selected codes.

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the added RLs in the RADIO LINK ADDITION RESPONSE message.

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL. [FDD - The DRNS shall start DL transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].] [TDD – The DRNS shall start transmission on the new RL immediately as specified in ref. [4].]

[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 SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

9

[FDD - If the UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where 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 ADDITION RESPONSE message.]

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

[FDD – After addition of the new RL(s), the UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 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, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

For each Radio Link established in a cell where at least one URA Identity is being broadcast, the DRNC shall include a URA Identity for this cell in the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or notmultiple URA Identities are being broadcast in the cell, and the RNC Identity of all other RNCs that are having at least one cell within the URA in the cell in the *URA Information* IE in the RADIO LINK ADDITION RESPONSE message.

9.2.1.41C Neighbouring GSM Cell Information

The *Neighbouring GSM Cell Information* IE provides information for one GSM Cell that is a neighbouring cell to a cell in the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Neighbouring GSM Cell Information		1 <maxnoofgsm neighbours></maxnoofgsm 		
>CGI		1		Cell Global Identity as defined in ref. [1].
>>LAI		1		
>>>PLMN-ID	M		OCTET STRING (3)	 digits 0 to 9, two digits per octet, each digit encoded 0000 to 1001, 1111 used as filler bit 4 to 1 of octet n encoding digit 2n-1 bit 8 to 5 of octet n encoding digit 2n The PLMN-ID consists of
			00757	3 digits from MCC followed by either -a filler plus 2 digits from MNC (in case of 2 digit MNC) or -3 digits from MNC (in case of a 3 digit MNC).
>>>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed
>>Cl	М		OCTET STRING (2)	
>Cell Individual Offset	<u>0</u>		<u>9.2.1.7</u>	The Cell Individual Offset to be used for UEs using DCHs.
>Q-Offset Serving to Neighbour	M		INTEGER (- 5050)	
>Q RxlevMin	M		INTEGER (- 5813)	Range: -115 to -25 dBm, Step: 2 dB Actual value = (IE value * 2) + 1: -58: -115 dBm -57: -113 dBm
>Maximum Allowed UL Tx Power	₩		9.2.1.35	
>BSIC		1		Base Station Identity Code as defined in ref. [1].
>>NCC	М		BIT STRING(3)	Network Colour Code.
>>BCC	М		BIT STRING(3)	Base Station Colour Code.
>Band Indicator	M		ENUMERAT ED (DCS 1800 band, PCS 1900 band,)	Indicates whether or not the BCCH ARFCN belongs to the 1800 band or 1900 band of GSM frequencies.
>BCCH ARFCN	М		INTEGER (01023)	BCCH Frequency as defined in ref. [29].
→GSM Output Power	θ		Value range??	Output Power level of the GSM cell as defined in ref. [29].

Range bound	Explanation
MaxnoofGSMneighbours	Maximum number of neighbouring GSM cells for one cell.

11

9.3.4 Information Element Definitions

-- 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

--

<Editor's note: Parts of the module is skipped.>

```
-- B
Band-Indicator ::= ENUMERATED {
   dcs1800Band,
    pcs1900Band,
    . . .
BCC ::= BIT STRING (SIZE (3))
BCCH-ARFCN ::= INTEGER (0..1023)
BetaCD ::= INTEGER (0..15)
BindingID
                      ::= OCTET STRING (SIZE (1..4,...))
BLER
                       ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
Block-STTD-Indicator ::= ENUMERATED {
   active,
    inactive
}
BSIC ::= SEQUENCE {
    nCC
               NCC,
    bCC
                BCC
}
```

-- C

<Editor's note: Parts of the module is skipped.>

```
-- G
                     ::= INTEGER (1..14)
GapLength
-- Unit Slot
GapDuration
                     ::= INTEGER (1..144,...)
-- Unit Frame
GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF
   SEOUENCE {
                                 GeographicalCoordinate,
       geographicalCoordinate
       iE-Extensions
                             ProtocolExtensionContainer { {GA-Cell-ExtIEs} } OPTIONAL,
       . . .
   }
GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
GA-AccessPointPosition ::= SEQUENCE {
   geographicalCoordinate
                             GeographicalCoordinate,
   iE-Extensions
                    ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,
   . . .
}
GA-AccessPoint-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GeographicalCoordinate ::= SEQUENCE {
              ENUMERATED { nort.
INTEGER (0..8388607),
INTEGER (-8300000
   latitudeSign ENUMERATED { north, south },
   latitude
   longitude
                     INTEGER (-8388608..8388607),
                         ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
}
GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
}
-- H
```

14

<Editor's note: Parts of the module is skipped.> -- N NCC ::= BIT STRING (SIZE (3)) Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-CellInformationItemIE }} Neighbouring-UMTS-CellInformationItemIE RNSAP-PROTOCOL-IES ::= { { ID id-Neighbouring-UMTS-CellInformationItem CRITICALITY ignore TYPE Neighbouring-UMTS-CellInformationItem PRESENCE mandatory } } Neighbouring-UMTS-CellInformationItem ::= SEQUENCE rNC-ID RNC-ID. cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL, cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL, neighbouring-FDD-CellInformation Neighbouring-FDD-CellInformation OPTIONAL, neighbouring-TDD-CellInformation Neighbouring-TDD-CellInformation OPTIONAL, iE-Extensions ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs } } OPTIONAL, . . . Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . Neighbouring-FDD-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem Neighbouring-FDD-CellInformationItem ::= SEQUENCE { c-ID C-ID, uARFCNforNu UARFCN, uARFCNforNd UARFCN, frameOffset FrameOffset OPTIONAL, primaryScramblingCode PrimaryScramblingCode, primaryCPICH-Power PrimaryCPICH-Power OPTIONAL, cellIndividualOffset CellIndividualOffset OPTIONAL, txDiversityIndicator TxDiversityIndicator, sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL, closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL, closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Neighbouring-FDD-CellInformationItem-ExtIEs } } OPTIONAL, . . . Neighbouring-FDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { Neighbouring-GSM-CellInformation ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationIE }}

Release 1999

15

Neighbouring-GSM-CellInformationIE RNSAP-PROTOCOL-IES ::= {
 { ID id-Neighbouring-GSM-CellInformation CRITICALITY ignore TYPE Neighbouring-GSM-CellInformationIEs PRESENCE mandatory }
}

Neighbouring-GSM-CellInformationIEs ::= SEQUENCE (SIZE (1..maxNrOfGSMNeighboursPerRNC,...)) OF Neighbouring-GSM-CellInformationItem

Neighbouring-GSM-CellInformationItem ::= SEQUENCE { cGI CGI, cellIndividualOffset CellIndividualOffset OPTIONAL, q-Offset-Serving-to-Neighbour Q-Offset-Serving-to-Neighbour, -q-RxlevMin-Q-RxlevMin, maximumAllowedULTxPower MaximumAllowedULTxPower, bSIC BSIC, band-Indicator Band-Indicator, bCCH-ARFCN BCCH-ARFCN, qSM-Output-Power GSM-Output-Power OPTIONAL, ProtocolExtensionContainer { { Neighbouring-GSM-CellInformationItem-ExtIEs } } OPTIONAL, iE-Extensions . . . Neighbouring-GSM-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . Neighbouring-TDD-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem Neighbouring-TDD-CellInformationItem ::= SEQUENCE { c-ID C-ID, uARFCNforNt UARFCN, frameOffset FrameOffset OPTIONAL, cellParameterID CellParameterID, syncCase SyncCase, timeSlot TimeSlot OPTIONAL -- This IE shall be present only if Sync Case = Case1 -- , sCH-TimeSlot SCH-TimeSlot OPTIONAL -- This IE shall be present only if Sync Case = Case2 -- , block-STTD-Indicator Block-STTD-Indicator, cellIndividualOffset CellIndividualOffset OPTIONAL, DPCHConstantValue OPTIONAL, dPCHConstantValue pCCPCH-Power PCCPCH-Power OPTIONAL, ProtocolExtensionContainer { { Neighbouring-TDD-CellInformationItem-ExtIEs } } OPTIONAL, iE-Extensions . . . Neighbouring-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { } NrOfDLchannelisationcodes ::= INTEGER (1..8) NrOfTransportBlocks ::= INTEGER (0..512)

-- O

<Editor's note: The rest of the module is skipped.>

CHANGE REQUEST									
ж	25.423 CR 369 # rev # Current version: 4.0.0 #								
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <i>x</i> symbols.									
Proposed change a	Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network								
Title: ೫	Alignment of Neighbouring GSM Cell Information with RRC								
Source: ೫	R-WG3								
Work item code: ℜ	TEI Date: # May, 2001								
Category: ೫	A Release: # REL-4								
	Use one of the following categories:Use one of the following releases:F (essential correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (Addition of feature),R97(Release 1997)C (Functional modification of feature)R98(Release 1998)D (Editorial modification)R99(Release 1999)Detailed explanations of the above categories canREL-4(Release 4)be found in 3GPP TR 21.900.REL-5(Release 5)								
Reason for change	: # In the current RNSAP specification the Neighbouring GSM Cell Information is not								
	aligned with RRC.								
	When the neighbouring cell information was introduced in RNSAP it was done with 100% alignment with RRC v3.4.0 (even including the "undefined" <i>GSM Output Power</i> IE). The alignment was made with the information provided on GSM cells in the Measurement Control procedure. However, in v3.6.0 the specifications are inconsistent.								
	The current information in RRC provided for measurements on GSM cells in connected mode is: * Cell Individual Offset * BSIC * Band Indicator * BCCH ARFCN * Output Power (Optional)								
	Consequently the Q-Offset Serving to Neighbour, Q-RxlevMin, and Maximum Allowed UL Tx Power have been removed. Further more the Cell Individual Offset and the Band Indicator have been added.								
	Further more, since the Output Power parameter is still undefined it is of no use.								
Summary of chang	The CR attempts to align the Neighbouring GSM cell Information in RSNAP with the information provided for GSM cells in the Measurement Control procedure. To do this the following IEs shall be removed: * Q-Offset Serving to Neighbour * Q-RxlevMin * Maximum Allowed UL Tx Power And the following IEs shall be added: * Cell individual offset								

		* Band indicator					
		Further more, the GSM Output Power IE is removed since it is not useful without a value range.					
Consequences if not approved:	Ħ	If this CR is not approved the measurements on GSM cells in Cell_DCH state will not work properly.					
		Backward compatibility:					
		This CR is backward compatible with the previous version of RNSAP, except for the handling of GSM Neighbouring Cells. Since the current Neighbouring GSM					
		Cell Information anyway is not matching what is used in RRC it does not work					
		properly. Since this CR corrects this error an incompatible change is justified.					
Clauses affected:	ж	8.3.1.2, 8.3.4.2, 8.3.7.2, and 9.2.1.2A.					
Other specs	Ж	Other core specifications					
affected:		Test specifications					
		O&M Specifications					
	_						
Other comments:	Ж						

How to create CRs using this form:

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

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

8.3.1.2 Successful Operation

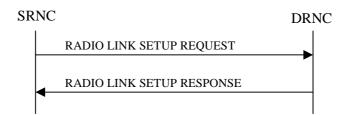


Figure 5: Radio Link Setup procedure: Successful Operation

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).

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall assign a new D-RNTI for this UE.

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

[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 on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then 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 an RL is to be combined, the DRNS shall choose which RL(s) to combine it with.]

[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.]

If the RADIO LINK SETUP 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.

[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.]

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

[TDD - If the *Primary CCPCH RSCP* IE and/or the [3.84Mcps TDD - *DL Time Slot ISCP Info* IE] and/or the [1.28Mcps TDD - *DL Time Slot ISCP Info LCR* IE] are present, the DRNC should use the indicated values when deciding the Initial DL TX Power.]

[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 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 – The DRNS shall start the 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 concerning RLS or a DL POWER CONTROL REQUEST message is received. 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 DRNS shall start the 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 concerning RL. No

inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).]

[FDD - If the *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 life time 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]).]

[TDD - If the *DCH Information* IE is present in 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.

[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. [4]. If the QE-Selector is set to "non-selected ", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

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

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

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

If the *DCH Specific Info* IE in the *DCH Information* 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 may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the uplink of this DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the downlink of this DCH.

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE, the DRNS 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 *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. If the RADIO LINK SETUP REQUEST message includes both *SSDT Cell Identity* IE and *SSDT Cell Identity for EDSCHPC* IE, then DRNS shall ignore the *SSDT Cell Identity for EDSCHPC* IE.]

[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 last Radio Link is deleted.]

Release 4

[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 immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value.]

[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.]

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates 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 or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully established.

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]. 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 message RADIO LINK SETUP RESPONSE message.

[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.]

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

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS 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 UE Context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS 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 UE context.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first RL. In this case the Reference *RL ID* IE shall be included to indicate with which RL the combination is performed. The Reference *RL ID* IE shall not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

[FDD - In the case of not combining an RL with another RL, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that no combining is performed. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH and DSCH of the RL in the RADIO LINK SETUP RESPONSE message.]

[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 case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *Binding ID* IE and the *Transport Layer Address* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

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

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

[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.]

For any cell neighbouring a cell in which a RL was established, the DRNS shall also provide the SRNC with the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD - Cell

Parameter ID, [3.84Mcps TDD - the Sync Case, the SCH Time Slot information], the Block STTD Indicator] and the node identification of the CN nodes connected to the RNC controlling the neighbouring cell if the UMTS neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD - CPICH Power level, cell individual offset]/[TDD - PCCPCH Power level, DPCH Constant Value] and Frame Offset of the UMTS neighbouring cell.

6

If a UMTS neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC and CN domain nodes) of the RNC controlling the UMTS neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx Diversity Indicator* IE and Tx diversity capability (i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE) in the *Neighbouring FDD Cell Information* IE].

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK SETUP RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the <u>Cell Individual OffsetGSM Output Power</u> IE in the *Neighbouring GSM Cell Information* IE.

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall include the node identifications of the CN Domain nodes that the RNC is connected to (using LAC and RAC of the current cell), and the *D-RNTI* IE in the RADIO LINK SETUP RESPONSE message.

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

[TDD – If the *D*-*RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include <u>the</u> *UARFCN* IE, the *Cell Parameter ID* IE, the *Sync Case* IE, the *SCH Time Slot* IE, the *Block STTD Indicator* <u>IE</u>, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[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 indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where 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.]

[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.]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

After sending of 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. [FDD - The DRNS shall start DL transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].] [TDD – The DRNS shall start transmission on the new RL immediately as specified in ref. [4].]

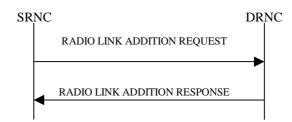
[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indicator* IE].

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

For each Radio Link established in a cell where at least one URA Identity is being broadcast, the DRNC shall include a URA Identity for this cell in 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 Identity of all other RNCs that are having at least one cell within the URA in the cell in the *URA Information* IE in the RADIO LINK SETUP RESPONSE message.

8.3.2.2 Successful Operation



8

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 reception, 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.

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), then 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.

[FDD - If the *Primary CPICH Ec/No* IE measured by the UE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power. If the *Primary CPICH Ec/No* IE is not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[TDD - If the *Primary CCPCH RSCP* IE and/or the [3.84Mcps TDD - *DL Time Slot ISCP Info* IE] and/or the [1.28Mcps TDD - *DL Time Slot ISCP Info LCR* IE] are included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use them in the calculation of the Initial DL TX Power. If the *Primary CCPCH RSCP* IE and [3.84Mcps TDD - *DL Time Slot ISCP Info* IE] and [1.28Mcps TDD - *DL Time Slot ISCP Info* IE] and [1.28Mcps TDD - *DL Time Slot ISCP Info* LCR IE] are not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or a DL POWER CONTROL REQUEST message is received. 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 innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).].

[FDD - If the *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 life time 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]).]

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

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT shall, if supported, be activated for the concerned new RL, with the indicated SSDT Cell Identity used for that RL.]

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

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to immediately activate all ongoing Transmission Gap Pattern Sequence(s) also in the new RL. For each sequence the *TGCFN* refers to latest passed CFN with that value. If *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the on going compressed mode pattern in the new RLs, but the on going pattern in the existing RL shall be maintained.]

Release 4

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

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

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the 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 the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

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

[FDD - In the case of combining one or more RLs being established by this procedure, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL for all RLs but the first RL. In this case the Reference RL ID shall be included to indicate one of the other RLs being established by this procedure that the new RL is combined with. The Reference *RL ID* IE shall not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

In the case of not combining an RL with existing RL(s), the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication* IE that no combining is done. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, [TDD – and DSCH, USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the DCHs in the set of co-ordinated DCHs.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

[TDD - If the radio link to be added includes a DSCH, the DRNC shall send a set of valid *DSCH Scheduling Priority* IE and *MAC-c/sh SDU Length* IE parameters to the SRNC in the message RADIO LINK ADDITION RESPONSE message.]

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

For any UMTS cell neighbouring a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, [3.84Mcps TDD - the Sync Case, the SCH Time slot information], the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the UMTS neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE, *Cell Individual Offset* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the UMTS neighbouring cell.

If there are GSM neighbouring cells to the cell(s) where 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 <u>Cell Individual Offset</u> GSM Output Power IE in the Neighbouring GSM Cell Information IE.

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.

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 DRNC shall also provide the selected scrambling and channelisation codes of the new RLs in order to enable the SRNC to inform the UE about the selected codes.

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE, and the UTRAN access point position for each of the added RLs in the RADIO LINK ADDITION RESPONSE message.

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL. [FDD - The DRNS shall start DL transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].] [TDD – The DRNS shall start transmission on the new RL immediately as specified in ref. [4].]

[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 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 UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where 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 ADDITION RESPONSE message.]

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

[FDD – After addition of the new RL(s), the UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 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, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

For each Radio Link established in a cell where at least one URA Identity is being broadcast, the DRNC shall include a URA Identity for this cell in 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 Identity of all other RNCs that are having at least one cell within the URA in the cell in the *URA Information* IE in the RADIO LINK ADDITION RESPONSE message.

9.2.1.41C Neighbouring GSM Cell Information

The *Neighbouring GSM Cell Information* IE provides information for one GSM Cell that is a neighbouring cell to a cell in the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Neighbouring GSM Cell Information		1 <maxnoofgsm neighbours></maxnoofgsm 		
>CGI		1		Cell Global Identity as defined in ref. [1].
>>LAI		1		
>>>PLMN-ID	M		OCTET STRING (3)	 digits 0 to 9, two digits pe octet, each digit encoded 0000 to 1001, 1111 used as filler bit 4 to 1 of octet n encoding digit 2n-1 bit 8 to 5 of octet n encoding digit 2n
			00757	-The PLMN-ID consists of 3 digits from MCC followed by either -a filler plus 2 digits from MNC (in case of 2 digit MNC) or -3 digits from MNC (in case of a 3 digit MNC).
>>>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed
>>CI	М		OCTET STRING (2)	
>Cell Individual Offset	<u>0</u>		<u>9.2.1.7</u>	The Cell Individual Offset to be used for UEs using DCHs.
>Q-Offset Serving to Neighbour	M		INTEGER (- 5050)	
>Q-RxlovMin	M		INTEGER (- 5813)	Range: -115 to -25 dBm, Step: 2 dB Actual value = (IE value * 2) + 1: -58: -115 dBm -57: -113 dBm -13: -25 dBm
>Maximum Allowed UL Tx Power	M		9.2.1.35	
>BSIC		1		Base Station Identity Code as defined in ref. [1].
>>NCC	М		BIT STRING(3)	Network Colour Code.
>>BCC	М		BIT STRING(3)	Base Station Colour Code.
>Band Indicator	М		ENUMERAT ED (DCS 1800 band, PCS 1900 band,)	Indicates whether or not the BCCH ARFCN belongs to the 1800 band or 1900 band of GSM frequencies.
>BCCH ARFCN	М		INTEGER (01023)	BCCH Frequency as defined in ref. [29].
→GSM Output Power	θ		Value range??	Output Power level of the GSM cell as defined in ref. [29].

Range bound	Explanation
MaxnoofGSMneighbours	Maximum number of neighbouring GSM cells for one cell.

12

9.3.4 Information Element Definitions

-- 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

_ _

<Editor's note: Parts of the module is skipped.>

```
-- B
Band-Indicator ::= ENUMERATED {
   dcs1800Band,
    pcs1900Band,
    . . .
BCC ::= BIT STRING (SIZE (3))
BCCH-ARFCN ::= INTEGER (0..1023)
BetaCD ::= INTEGER (0..15)
BindingID
                      ::= OCTET STRING (SIZE (1..4,...))
BLER
                       ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
Block-STTD-Indicator ::= ENUMERATED {
   active,
    inactive
}
BSIC ::= SEQUENCE {
    nCC
               NCC,
    bCC
                BCC
BurstModeParameters ::= SEQUENCE {
```

Error! No text of specified style in document.

```
Release 1999
```

```
14
```

burstStart INTEGER (0..15), burstLength INTEGER (10..25), burstFreq INTEGER (1..16), iE-Extensions ProtocolExtensionContainer { { BurstModeParameters-ExtIEs } } OPTIONAL, . . . ļ BurstModeParameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } -- C <Editor's note: Parts of the module is skipped.> -- G GapLength ::= INTEGER (1..14) -- Unit Slot GapDuration ::= INTEGER (1..144,...) -- Unit Frame GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF SEQUENCE { geographicalCoordinate GeographicalCoordinate, ProtocolExtensionContainer { {GA-Cell-ExtIEs} } OPTIONAL, iE-Extensions . . . } GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } GA-CellAdditionalShapes ::= CHOICE { pointWithUncertainty GA-PointWithUnCertainty, pointWithUncertaintyEllipse GA-PointWithUnCertaintyEllipse, pointWithAltitude GA-PointWithAltitude, pointWithAltitudeAndUncertaintyEllipsoid GA-PointWithAltitudeAndUncertaintyEllipsoid, ellipsoidArc GA-EllipsoidArc, ProtocolExtensionContainer { {GA-CellAdditionalShapes-ExtIEs } } OPTIONAL, iE-Extensions . . . } GA-CellAdditionalShapes-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } GA-AltitudeAndDirection ::= SEQUENCE { ENUMERATED {height, depth}, directionOfAltitude altitude INTEGER (0..32767),

Error! No text of specified style in document.

```
Release 1999
```

```
. . .
}
GA-EllipsoidArc ::= SEQUENCE {
    geographicalCoordinates
                                 GeographicalCoordinate,
    innerRadius
                                 INTEGER (0..65535),
    uncertaintyRadius
                                INTEGER (0..127),
    offsetAngle
                                 INTEGER (0..179),
    includedAngle
                                INTEGER (0..179),
    confidence
                                 INTEGER (0..127),
    iE-Extensions
                                ProtocolExtensionContainer { { GA-EllipsoidArc-ExtIEs } } OPTIONAL,
    . . .
l
GA-EllipsoidArc-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-PointWithAltitude ::= SEQUENCE {
                                 GeographicalCoordinate,
    geographicalCoordinates
    altitudeAndDirection
                                GA-AltitudeAndDirection,
                                ProtocolExtensionContainer { { GA-PointWithAltitude-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
GA-PointWithAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
                                INTEGER (0..127),
    uncertaintyAltitude
    confidence
                                INTEGER (0..127),
                                ProtocolExtensionContainer { { GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-PointWithUnCertaintyEllipse ::= SEQUENCE {
    geographicalCoordinates
                                 GeographicalCoordinate,
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
    confidence
                                INTEGER (0..127),
                                ProtocolExtensionContainer { { GA-PointWithUnCertaintyEllipse-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

15

}

}

16

```
GA-PointWithUnCertaintyEllipse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-UncertaintyEllipse ::= SEQUENCE {
    uncertaintySemi-major
                                INTEGER (0..127),
    uncertaintySemi-minor
                                INTEGER (0..127),
    orientationOfMajorAxis
                                INTEGER (0..179),
    . . .
GA-PointWithUnCertainty ::=SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    iE-Extensions
                         ProtocolExtensionContainer { {GA-PointWithUnCertainty-ExtIEs } } OPTIONAL,
    uncertaintyCode
                            INTEGER (0..127)
}
GA-PointWithUnCertainty-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-AccessPointPosition ::= SEQUENCE {
    geographicalCoordinate
                                GeographicalCoordinate,
    iE-Extensions
                            ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,
    . . .
GA-AccessPoint-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GeographicalCoordinate ::= SEQUENCE {
                            ENUMERATED { north, south },
   latitudeSign
   latitude
                      INTEGER (0..8388607),
   longitude
                       INTEGER (-8388608..8388607),
    iE-Extensions
                            ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs } } OPTIONAL,
    . . .
GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Almanac ::= SEOUENCE {
    wn<sub>a</sub>-alm
                            BIT STRING (SIZE (8)),
    satellite-Almanac-Information
                                        SEQUENCE (SIZE (1..maxNoSat)) OF
        SEQUENCE {
            sAT-ID
                                SAT-ID,
            qps-e-alm
                                BIT STRING (SIZE (16)),
                                BIT STRING (SIZE (8)),
            gps-toa-alm
```

```
17
            gps-delta-I-alm
                                BIT STRING (SIZE (16)),
           omegadot-alm
                                BIT STRING (SIZE (16)),
            svhealth-alm
                                BIT STRING (SIZE (8)),
            qps-a-sqrt-alm
                                BIT STRING (SIZE (24)),
            omegazero-alm
                                BIT STRING (SIZE (24)),
           m-zero-alm
                                BIT STRING (SIZE (24)),
            qps-omega-alm
                                BIT STRING (SIZE (24)),
            qps-af-zero-alm
                                BIT STRING (SIZE (11)),
           gps-af-one-alm
                                BIT STRING (SIZE (11)),
           iE-Extensions
                                ProtocolExtensionContainer { { Satellite-Almanac-Information-ExtIEs } }
                                                                                                            OPTIONAL,
            . . .
       },
                            ProtocolExtensionContainer { { GPS-Almanac-ExtIEs } }
                                                                                         OPTIONAL,
    iE-Extensions
    . . .
}
Satellite-Almanac-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPSInformation ::= SEQUENCE (SIZE (1..maxNoGPSTypes)) OF
    SEQUENCE
        qPSInformationItem
                                ENUMERATED {
            gPS-NavigationModel-and-TimeRecovery,
           qPS-Ionospheric-Model,
           gPS-UTC-Model,
           gPS-Almanac,
           gPS-RealTime-Integrity,
            . . .
        },
                                ProtocolExtensionContainer { { GPSInformation-ExtIEs} }
       iE-Extensions
                                                                                             OPTIONAL,
        . . .
-- This IE shall be present if the Information Type IE indicates 'GPS Information'
GPSInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                            BIT STRING (SIZE (8)),
    alpha-one-ionos
                            BIT STRING (SIZE (8)),
    alpha-two-ionos
                           BIT STRING (SIZE (8)),
    alpha-three-ionos
                           BIT STRING (SIZE (8)),
    beta-zero-ionos
                            BIT STRING (SIZE (8)),
    beta-one-ionos
                            BIT STRING (SIZE (8)),
    beta-two-ionos
                            BIT STRING (SIZE (8)),
```

18

```
beta-three-ionos
                            BIT STRING (SIZE (8)),
    iE-Extensions
                            ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs } }
                                                                                                  OPTIONAL,
    . . .
}
GPS-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-NavigationModel-and-TimeRecovery ::= SEQUENCE (SIZE (1..maxNoSat)) OF
    SEQUENCE {
        tx-tow-nav
                                        INTEGER (0..1048575),
        sAT-ID
                                        SAT-ID,
        tlm-message-nav
                                        BIT STRING (SIZE (14)),
        tlm-revd-c-nav
                                        BIT STRING (SIZE (2)),
       ho-word-nav
                                        BIT STRING (SIZE (22)),
        w-n-nav
                                        BIT STRING (SIZE (10)),
        ca-or-p-on-12-nav
                                        BIT STRING (SIZE (2)),
       user-range-accuracy-index-nav
                                        BIT STRING (SIZE (4)),
        sv-health-nav
                                        BIT STRING (SIZE (6)),
        iodc-nav
                                        BIT STRING (SIZE (10)),
       12-p-dataflag-nav
                                        BIT STRING (SIZE (1)),
        sfl-reserved-nav
                                        BIT STRING (SIZE (87)),
                                        BIT STRING (SIZE (8)),
        t-qd-nav
        t-oc-nav
                                        BIT STRING (SIZE (16)),
        a-f-2-nav
                                        BIT STRING (SIZE (8)),
        a-f-1-nav
                                        BIT STRING (SIZE (16)),
        a-f-zero-nav
                                        BIT STRING (SIZE (22)),
        c-rs-nav
                                        BIT STRING (SIZE (16)),
        delta-n-nav
                                        BIT STRING (SIZE (16)),
        m-zero-nav
                                        BIT STRING (SIZE (32)),
        c-uc-nav
                                        BIT STRING (SIZE (16)),
                                        BIT STRING (SIZE (32)),
        gps-e-nav
                                        BIT STRING (SIZE (16)),
        c-us-nav
        a-sort-nav
                                        BIT STRING (SIZE (32)),
        t-oe-nav
                                        BIT STRING (SIZE (16)),
        fit-interval-flag-nav
                                        BIT STRING (SIZE (1)),
        aodo-nav
                                        BIT STRING (SIZE (5)),
        c-ic-nav
                                        BIT STRING (SIZE (16)),
        omega-zero-nav
                                        BIT STRING (SIZE (32)),
        c-is-nav
                                        BIT STRING (SIZE (16)),
        i-zero-nav
                                        BIT STRING (SIZE (32)),
        c-rc-nav
                                        BIT STRING (SIZE (16)),
        gps-omega-nav
                                        BIT STRING (SIZE (32)),
                                        BIT STRING (SIZE (24)),
        omegadot-nav
        idot-nav
                                        BIT STRING (SIZE (14)),
        spare-zero-fill
                                        BIT STRING (SIZE (20)),
        iE-Extensions
                                        ProtocolExtensionContainer { { GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs } }
                                                                                                                              OPTIONAL,
        . . .
```

19

```
GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-RealTime-Integrity ::= CHOICE {
    badSatellites
                                BadSatellites,
    noBadSatellite
                                NULL
}
GPS-RX-POS ::= SEQUENCE {
    geographicalCoordinate
                                GeographicalCoordinate,
                                ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
GPS-RX-POS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Status-Health ::= ENUMERATED {
  udre-1-0,
  udre-0-75,
  udre-0-5,
  udre-0-3,
  udre-0-1,
  no-data,
  invalid-data
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
    a-one-utc
                           BIT STRING (SIZE (24)),
                           BIT STRING (SIZE (32)),
   a-zero-utc
    t-ot-utc
                          BIT STRING (SIZE (8)),
    delta-t-ls-utc
                         BIT STRING (SIZE (8)),
    w-n-t-utc
                           BIT STRING (SIZE (8)),
    w-n-lsf-utc
                           BIT STRING (SIZE (8)),
    dn-utc
                           BIT STRING (SIZE (8)),
    delta-t-lsf-utc
                         BIT STRING (SIZE (8)),
                           ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs} }
    iE-Extensions
                                                                                         OPTIONAL,
    . . .
}
GPS-UTC-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

GSM-Output-Power ::= SEQUENCE { -- Value range (and type?) to be aligned with WG2!!!!!!!!!!!!!!!!!

Error! No text of specified style in document.

```
Release 1999
```

}

```
GPS-Almanac ::= SEQUENCE {
    wn<sub>a</sub>-alm
                             BIT STRING (SIZE (8)),
                                         SEQUENCE (SIZE (1..maxNoSat)) OF
    satellite-Almanac-Information
        SEQUENCE {
            sAT-ID
                                 SAT-ID,
            gps-e-alm
                                 BIT STRING (SIZE (16)),
                                 BIT STRING (SIZE (8)),
            gps-toa-alm
            gps-delta-I-alm
                                 BIT STRING (SIZE (16)),
            omegadot-alm
                                 BIT STRING (SIZE (16)),
            svhealth-alm
                                 BIT STRING (SIZE (8)),
            qps-a-sqrt-alm
                                 BIT STRING (SIZE (24)),
            omegazero-alm
                                 BIT STRING (SIZE (24)),
            m-zero-alm
                                 BIT STRING (SIZE (24)),
            qps-omega-alm
                                 BIT STRING (SIZE (24)),
            qps-af-zero-alm
                                 BIT STRING (SIZE (11)),
            qps-af-one-alm
                                 BIT STRING (SIZE (11)),
                                 ProtocolExtensionContainer { { Satellite-Almanac-Information-ExtIEs } }
            iE-Extensions
                                                                                                              OPTIONAL,
            . . .
        },
                            ProtocolExtensionContainer { { GPS-Almanac-ExtIEs } }
                                                                                           OPTIONAL,
    iE-Extensions
    . . .
Satellite-Almanac-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPSInformation ::= SEQUENCE (SIZE (1..maxNoGPSTypes)) OF
    SEQUENCE {
        gPSInformationItem
                                 ENUMERATED {
            gPS-NavigationModel-and-TimeRecovery,
            gPS-Ionospheric-Model,
            gPS-UTC-Model,
            gPS-Almanac,
            gPS-RealTime-Integrity,
            . . .
        },
                                 ProtocolExtensionContainer { { GPSInformation-ExtIEs } }
        iE-Extensions
                                                                                               OPTIONAL,
        . . .
-- This IE shall be present if the Information Type IE indicates 'GPS Information'
GPSInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
Release 1999
```

```
}
GPS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                            BIT STRING (SIZE (8)),
    alpha-one-ionos
                            BIT STRING (SIZE (8)),
    alpha-two-ionos
                            BIT STRING (SIZE (8)),
    alpha-three-ionos
                            BIT STRING (SIZE (8)),
    beta-zero-ionos
                            BIT STRING (SIZE (8)),
    beta-one-ionos
                            BIT STRING (SIZE (8)),
    beta-two-ionos
                            BIT STRING (SIZE (8)),
   beta-three-ionos
                            BIT STRING (SIZE (8)),
                            ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs } }
    iE-Extensions
                                                                                                 OPTIONAL,
    . . .
GPS-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-NavigationModel-and-TimeRecovery ::= SEQUENCE (SIZE (1..maxNoSat)) OF
    SEQUENCE {
        tx-tow-nav
                                        INTEGER (0..1048575),
        SAT-TD
                                        SAT-ID,
        tlm-message-nav
                                        BIT STRING (SIZE (14)),
        tlm-revd-c-nav
                                        BIT STRING (SIZE (2)),
       ho-word-nav
                                        BIT STRING (SIZE (22)),
       w-n-nav
                                        BIT STRING (SIZE (10)),
        ca-or-p-on-12-nav
                                        BIT STRING (SIZE (2)),
       user-range-accuracy-index-nav
                                        BIT STRING (SIZE (4)),
        sv-health-nav
                                        BIT STRING (SIZE (6)),
        iodc-nav
                                        BIT STRING (SIZE (10)),
       12-p-dataflag-nav
                                        BIT STRING (SIZE (1)),
        sfl-reserved-nav
                                        BIT STRING (SIZE (87)),
        t-gd-nav
                                        BIT STRING (SIZE (8)),
        t-oc-nav
                                        BIT STRING (SIZE (16)),
        a-f-2-nav
                                        BIT STRING (SIZE (8)),
        a-f-1-nav
                                        BIT STRING (SIZE (16)),
        a-f-zero-nav
                                        BIT STRING (SIZE (22)),
        c-rs-nav
                                        BIT STRING (SIZE (16)),
        delta-n-nav
                                        BIT STRING (SIZE (16)),
        m-zero-nav
                                        BIT STRING (SIZE (32)),
        c-uc-nav
                                        BIT STRING (SIZE (16)),
                                        BIT STRING (SIZE (32)),
        gps-e-nav
       c-us-nav
                                        BIT STRING (SIZE (16)),
                                        BIT STRING (SIZE (32)),
        a-sort-nav
        t-oe-nav
                                        BIT STRING (SIZE (16)),
        fit-interval-flag-nav
                                        BIT STRING (SIZE (1)),
        aodo-nav
                                        BIT STRING (SIZE (5)),
        c-ic-nav
                                        BIT STRING (SIZE (16)),
        omega-zero-nav
                                        BIT STRING (SIZE (32)),
        c-is-nav
                                        BIT STRING (SIZE (16)),
```

21

```
Release 1999
                                                                            22
                                                                                                                     Error! No text of specified style in document.
        i-zero-nav
                                        BIT STRING (SIZE (32)),
        c-rc-nav
                                        BIT STRING (SIZE (16)),
        qps-omega-nav
                                        BIT STRING (SIZE (32)),
        omegadot-nav
                                        BIT STRING (SIZE (24)),
        idot-nav
                                        BIT STRING (SIZE (14)),
                                        BIT STRING (SIZE (20)),
        spare-zero-fill
       iE-Extensions
                                        ProtocolExtensionContainer { { GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs } }
                                                                                                                              OPTIONAL,
        . . .
    }
GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-RealTime-Integrity ::= CHOICE {
    badSatellites
                                BadSatellites,
    noBadSatellite
                                NULL
}
GPS-RX-POS ::= SEQUENCE {
    geographicalCoordinate
                                GeographicalCoordinate,
                                ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
GPS-RX-POS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Status-Health ::= ENUMERATED {
  udre-1-0,
  udre-0-75,
  udre-0-5,
  udre-0-3,
  udre-0-1,
  no-data,
  invalid-data
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
    a-one-utc
                            BIT STRING (SIZE (24)),
    a-zero-utc
                            BIT STRING (SIZE (32)),
    t-ot-utc
                            BIT STRING (SIZE (8)),
    delta-t-ls-utc
                            BIT STRING (SIZE (8)),
    w-n-t-utc
                            BIT STRING (SIZE (8)),
    w-n-lsf-utc
                            BIT STRING (SIZE (8)),
    dn-utc
                            BIT STRING (SIZE (8)),
    delta-t-lsf-utc
                            BIT STRING (SIZE (8)),
    iE-Extensions
                            ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs } }
                                                                                         OPTIONAL,
```

}

}

-- H

-- N

}

}

txDiversityIndicator

23 . . . GPS-UTC-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . <Editor's note: Parts of the module is skipped.> NCC ::= BIT STRING (SIZE (3)) Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-CellInformationItemIE } } Neighbouring-UMTS-CellInformationItemIE RNSAP-PROTOCOL-IES ::= { ID id-Neighbouring-UMTS-CellInformationItem CRITICALITY ignore TYPE Neighbouring-UMTS-CellInformationItem PRESENCE mandatory } Neighbouring-UMTS-CellInformationItem ::= SEQUENCE rNC-ID RNC-ID, cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL, cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL, neighbouring-FDD-CellInformation Neighbouring-FDD-CellInformation OPTIONAL, neighbouring-TDD-CellInformation Neighbouring-TDD-CellInformation OPTIONAL, iE-Extensions ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs} } OPTIONAL, . . . Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { id-neighbouring-LCR-TDD-CellInformation Neighbouring-LCR-TDD-CellInformation CRITICALITY ignore EXTENSION PRESENCE optional }, . . . Neighbouring-FDD-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem Neighbouring-FDD-CellInformationItem ::= SEQUENCE { c-ID C-ID, uARFCNforNu UARFCN, uARFCNforNd UARFCN, frameOffset FrameOffset OPTIONAL, primaryScramblingCode PrimaryScramblingCode, primaryCPICH-Power PrimaryCPICH-Power OPTIONAL, cellIndividualOffset CellIndividualOffset OPTIONAL,

TxDiversityIndicator,

```
Release 1999
```

```
24
```

```
sTTD-SupportIndicator
                                         STTD-SupportIndicator OPTIONAL,
    closedLoopModel-SupportIndicator
                                        ClosedLoopModel-SupportIndicator
                                                                             OPTIONAL,
    closedLoopMode2-SupportIndicator
                                        ClosedLoopMode2-SupportIndicator
                                                                             OPTIONAL.
    iE-Extensions
                                         ProtocolExtensionContainer { { Neighbouring-FDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-FDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-ID
                                        UC-ID,
    UARFCN
                                        UARFCN.
    primaryScramblingCode
                                        PrimaryScramblingCode,
    iE-Extensions
                                        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    . . .
NeighbouringFDDCellMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Neighbouring-GSM-CellInformation ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationIE }}
Neighbouring-GSM-CellInformationIE RNSAP-PROTOCOL-IES ::= {
     ID id-Neighbouring-GSM-CellInformation
                                                CRITICALITY iqnore TYPE
                                                                             Neighbouring-GSM-CellInformationIEs PRESENCE mandatory }
}
Neighbouring-GSM-CellInformationIEs ::= SEQUENCE ( SIZE (1..maxNrOfGSMNeighboursPerRNC,...)) OF Neighbouring-GSM-CellInformationItem
Neighbouring-GSM-CellInformationItem ::= SEQUENCE {
    cGI
                                         CGI,
                                                                 OPTIONAL,
    cellIndividualOffset
                                        CellIndividualOffset
    q-Offset-Serving-to-Neighbour
                                         Q-Offset-Serving-to-Neighbour,
    g-RxlevMin
                                        O-RxlevMin,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    bSIC
                                        BSIC,
    band-Indicator
                                        Band-Indicator,
    bCCH-ARFCN
                                        BCCH-ARFCN,
   gSM-Output-Power
                                        GSM-Output-Power OPTIONAL,
                                        ProtocolExtensionContainer { { Neighbouring-GSM-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-GSM-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

Neighbouring-TDD-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem

```
Neighbouring-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                     C-ID.
    uARFCNforNt.
                                     UARFCN.
    frameOffset.
                                     FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                     CellParameterID,
    syncCase
                                     SyncCase,
    timeSlot
                                     TimeSlot
                                                         OPTIONAL
    -- This IE shall be present only if Sync Case = Case1 -- ,
                                     SCH-TimeSlot
    sCH-TimeSlot
                                                             OPTIONAL
    -- This IE shall be present only if Sync Case = Case2 -- ,
    block-STTD-Indicator
                                     Block-STTD-Indicator,
    cellIndividualOffset
                                     CellIndividualOffset
                                                             OPTIONAL,
    dPCHConstantValue
                                     DPCHConstantValue OPTIONAL.
    pCCPCH-Power
                                     PCCPCH-Power
                                                             OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { Neighbouring-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
NeighbouringTDDCellMeasurementInformation ::= SEOUENCE {
    uC-ID
                                         UC-ID,
    UARFCN
                                         UARFCN,
    cellParameterID
                                         CellParameterID,
    iE-Extensions
                                         ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    . . .
NeighbouringTDDCellMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Neighbouring-LCR-TDD-CellInformation ::= SEQUENCE (SIZE (1.. maxNrofLCRTDDNeighboursPerRNC,..)) OF Neighbouring-LCR-TDD-CellInformationItem
Neighbouring-LCR-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                     C-ID,
    uARFCNforNt
                                     UARFCN,
    frameOffset.
                                     FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                     CellParameterID,
    timeSlotLCR
                                     TimeSlotLCR,
    block-STTD-Indicator
                                     Block-STTD-Indicator,
    cellIndividualOffset
                                     CellIndividualOffset
                                                             OPTIONAL,
    dPCHConstantValue
                                     DPCHConstantValue OPTIONAL,
    pCCPCH-Power
                                     PCCPCH-Power
                                                             OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { Neighbouring-LCR-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
```

25

Neighbouring-LCR TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

...
}
NrOfDLchannelisationcodes ::= INTEGER (1..8)
NrOfTransportBlocks ::= INTEGER (0..512)
-- 0

<Editor's note: The rest of the module is skipped.>

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, May 21st – May 25th, 2001

R3-011657

CHANGE REQUEST							
¥	25.423	8 CR 377	ж re	۳ <mark>1 ه</mark>	Current vers	^{sion:} 3.5.0 [#]	
For <u>HELP</u> on L	sing this fo	orm, see bottom	of this page	or look at	the pop-up text	over the # symbols.	
Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network							
Title: #	Correcti	on of the text for	ToAWE IE				
Source: #	R-WG3						
Work item code: #	TEI				<i>Date:</i>	2001-05-10	
Category: #	F				Release: ೫	R99	
Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tetailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5							
Reason for change: # The definition text specifies that "a frame received after ToAWS gives a Timing Adjustment Control frame". This is inconsistent with TS 25.402: ToAWS should be replaced by ToAWE.							
Summary of chang	·	Link between C Correct "ToAWS				n added.	
Consequences if not approved:	₩ The imple This		remain inco	nsistent w	vith 25.402 whic	h might lead to incorrect our described in	
Clauses affected:	<mark>೫ 9.2</mark>	.1.57					
Other specs affected:		Other core specif Fest specification D&M Specificatio	IS	ж 25.42	23 v4.0.0 (CR37	78)	
Other comments:	ж						

How to create CRs using this form:

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

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

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

9.2.1.57 ToAWE

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

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

3GPP TSG-RAN WG3 Meeting #21 Busan, Korea, May 21st – May 25th, 2001

R3-011658

											CR-Form-v3
CHANGE REQUEST											
¥	25	<mark>.423</mark>	CR 37	8	¥ rev	1	ж	Current ve	rsion:	4.0.0	ж
For <u>HELP</u> on u	using	this for	m, see bot	tom of this	page or	look a	at the	e pop-up te	xt over	the	mbols.
Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network											
Title: ೫	Co	rrectior	n of the tex	t for ToAW	EIE						
Source: #	R-N	VG3									
Work item code: ೫	TE							Date:	₩ <mark>200</mark>	01-05-10	
Category: ೫	Α							Release:	₩ <mark>RE</mark>	L-4	
	Deta	F (ess A (corr B (Add C (Fur D (Edi iled exp	ential correct responds to dition of feat actional mod torial modifie	a correction ure), lification of fe cation) the above of	in an ear eature)		lease	2	(GSN (Rele (Rele (Rele (Rele (Rele	llowing rel 1 Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4) ase 5)	
Reason for change	Reason for change: # The definition text specifies that "a frame received after ToAWS gives a Timing Adjustment Control frame". This is inconsistent with TS 25.402: ToAWS should be replaced by ToAWE.										
Summary of chang	ge:			en CR on R AWS" in "T				L-4 has bee	en adde	ed.	
Consequences if not approved:	¥	impler	nentations. R is backv					25.402 whi nded behav	-		
Clauses affected:	ж	9.2.1	.57								
Other specs affected:	ж	Τe	her core specificates the specificates where the specificates where the specificates of the specificates o		s ¥	25.4	423	v3.5.0 (CR3	377)		
Other comments:	ж										

How to create CRs using this form:

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

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

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

9.2.1.57 ToAWE

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

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

3GPP TSG-RAN WG3 Meeting #20 Busan, South Korea, May 21 – 25, 2001

CHANGE REQUEST							
æ	25.423 CR 381 # rev 1 # Current version: 3.5.0 #						
For <u>HELP</u> on u	using this form, see bottom of this page or look at the pop-up text over the $#$ symbols.						
Proposed change	Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network						
Title: ೫	Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration						
Source: ೫	R-WG3						
Work item code: %	TEI Date: # May 2001						
Category: ж	F Release: # R99						
	Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tetailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5						
Reason for change	 # It is not currently possible to specify the Downlink TPC step size when adding a new DL CCTrCH using the synchronised reconfiguration when another CCTrCH already exists. Therefore there is no way to determine a value for TPC step size when adding a new CCTrCH to an already existing CCTrCH. 						
Summary of chang	ge: % Within the description text when adding a DL CCTrCH the DL TPC step size for the new CCTrCH shall be set to the same value of the lowest numbered CCTrCH already existing in the current configuration.						
Consequences if not approved:	 If this CR is not approved the TPC step size for a new downlink CCTrCH can not be determined for a new CCTrCH Backward Compatibility This CR is not backward compatible because it fixes an error which can not be repaired without apprifying new babayour. 						
	repaired without specifying new behavour.						
Clauses affected:	¥ 8.3.4						
Other specs	X Other core specifications X 25.423 v4.0.0 CR382 25.433 v3.5.0 CR440 25.433 v4.0.0 CR441 25.433 v4.0.0 CR441 25.433 v4.0.0 CR441						
affected: Other comments:	Test specifications O&M Specifications						

How to create CRs using this form:

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

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

8.3.4 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 all Radio Links 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 reception, 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 then 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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.
- [FDD If, in the DCH Specific Info IE, the DRAC Control IE is present and set to "requested" 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 where the DRAC information is sent, for each Radio Link established in a cell where 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 *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE 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 a *DCHs to Add* IE with 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 it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- [FDD 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. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [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 where the DRAC information is sent, for each Radio Link

supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

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 then 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 set the UL inner loop power control to the UL SIR target 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 then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes *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 as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message 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 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 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. 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 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 to 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 *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of *Midamble Shift and Burst Type* IE, *Time Slot* IE, *TFCI Presence* IE or Code information was modified. The DRNC shall include code information if *TDD Channelisation Code* IE was modified.]

[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 DRNS has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message. If no DPCH was active before the reconfiguration, 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 a *DL CCTrCH to Add* IE, the DRNS shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current 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.]

SSDT Activation/Deactivation:

- [FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", 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, 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.]

DSCH Addition/Modification/Deletion:

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

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.

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Modify* IE, then the DRNS shall treat them each as follows:

- [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 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.]
 - [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 to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [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 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.]

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] USCH Addition/Modification/Deletion

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.

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.

If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH to Modify IE, then the DRNS shall treat them each as follows:

- 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.

- 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 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.]

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.

General

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In 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 only for one of the combined Radio Links.

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. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

3GPP TSG-RAN WG3 Meeting #20 Busan, South Korea, May 21 – 25, 2001

æ	25.423 CR 382 ^{# rev}	# Current version: 4.0.0 #					
For <u>HELP</u> on ι	ing this form, see bottom of this page or look	at the pop-up text over the X symbols.					
Proposed change	Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network						
Title: ೫	Correction of TDD DL TPC Step Size After additi Reconfiguration	ion of CCTrCH in Synchronised					
Source: #	R-WG3						
Work item code: ₩	TEI	Date:					
Category: अ	Α	Release: ೫ REL-4					
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier r B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999)					
Reason for change	new DL CCTrCH using the synchronise	e Downlink TPC step size when adding a ed reconfiguration when another CCTrCH ay to determine a value for TPC step size ady existing CCTrCH.					
Summary of chang	e: # Within the description text when adding the new CCTrCH shall be set to the sam already existing in the current configurat	ne value of the lowest numbered CCTrCH					
Consequences if not approved:	 If this CR is not approved the TPC step be determined for a new CCTrCH Backward Compatibility This CR is not backward compatible bed repaired without specifying new behavior 						
Clauses affected:	¥ 8.3.4						
Other specs	% X Other core specifications % 25 25 25	5.423 v3.5.0 CR381 5.433 v3.5.0 CR440 5.433 v4.0.0 CR441					
Other comments:	O&M Specifications						

How to create CRs using this form:

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

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

41

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 all Radio Links 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 reception, 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 then 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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.
- [FDD If, in the DCH Specific Info IE, the DRAC Control IE is present and set to "requested" 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 where the DRAC information is sent, for each Radio Link established in a cell where 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 *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]
- 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 in the uplink of the DCH at any point in time after activating the new configuration.
- 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.

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE 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 a *DCHs to Add* IE with 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 it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- [FDD 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. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [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 where the DRAC information is sent, for each Radio Link
 supported by a cell where 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 *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. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the uplink of this 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. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the downlink of this.

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 then 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 set the UL inner loop power control to the UL SIR target 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 then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes *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 as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message 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 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 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. 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 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 to 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 *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of [3.84Mcps TDD - Midamble Shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD - Midamble Shift LCR IE], TFCI Presence IE or Code information was modified. The DRNC shall include code information if [3.84Mcps TDD - TDD Channelisation Code IE] and/or [1.28Mcps TDD - TDD Channelisation Code LCR IE] was modified.]

[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 DRNS has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message. [3.84Mcps TDD - If no DPCH was active before the reconfiguration, 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 a *DL CCTrCH to Add* IE, the DRNS shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current 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.]

SSDT Activation/Deactivation:

- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", 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, in the new configuration. If the *RL Information* IE includes both *SSDT Cell Identity* IE and *SSDT Cell Identity for EDSCHPC* IE, then DRNS shall ignore the *SSDT Cell Identity for EDSCHPC* IE.]
- [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.]

DSCH Addition/Modification/Deletion:

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

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.

[FDD - If the *DSCHs to Add* IE includes the *Enhanced DSCH PC* IE, the DRNS shall activate enhanced DSCH power control, 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.]

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Modify* IE, then the DRNS shall treat them each as follows:

- [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 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.]
- [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 to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [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 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 *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, 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 *DSCHs to Add* IE includes *Enhanced DSCH PC* IE and *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 *DSCHs to Add* IE and *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 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] USCH Addition/Modification/Deletion

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.

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.

If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH to Modify IE, then the DRNS shall treat them each as follows:

- 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.
- 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 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.]

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.

General

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In 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 only for one of the combined Radio Links.

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

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. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

3GPP TSG RAN WG3 Meeting #21 Busan, Korea, 21st – 25th May 2001

	CHANGE REQUEST	CR-Form-v3
æ	25.423 CR 387 ^{# rev} 1 [#]	Current version: 3.5.0 [#]
For <u>HELP</u> on t	using this form, see bottom of this page or look at th	e pop-up text over the X symbols.
Proposed change	affects: ೫ (U)SIM ME/UE Radio Ad	ccess Network X Core Network
Title: ¥	Measurement clarifications	
Source: ¥	R-WG3	
Work item code: ₩	TEI	Date:
Category: #	F	Release: # R99
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier releas B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
Reason for chang		
	Following clarifications are necessary for the * The DPCH ID IE is defined optional within th procedure since not necessary for FDD. In ca case of not indicated DPCH ID IE needs to be * In case the Dedicated Measurement Object clarified where the measurement shall be per	the Dedicated Measurement Initiation ase of TDD, the DRNS behaviour in the clarified. <i>Type</i> IE is set to "ALL RL" it is
Summary of chang	ge: [#] Within the Dedicated Measurement procedure * Clarification of DRNS behaviour if no <i>DPCH</i> * Clarification which measurement shall be st <i>Measurement Object Type</i> IE is set to ALL RI	I ID IE is provided arted in case the Dedicated
Consequences if not approved:	# The DRNS behaviour of the measurement p cause confusion and problems in a multiven	
	Backward compatibility: This CR is backward compatible with the inte	ended behaviour of RNSAP V3.5.0
Clauses affected:	೫ <mark>8.3.11, 9.1.28, 9.1.29, 9.1.31</mark>	
Other specs	25.433 (CR448 R99 CR449 Rel 4 CR388 Rel 4
affected:	Test specifications O&M Specifications	

Other comments:

How to create CRs using this form:

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

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

8.3.11 Dedicated Measurement Initiation

8.3.11.1 General

This procedure is used by an SRNS to request the initiation of dedicated measurements in a DRNS.

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

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.11.2 Successful Operation

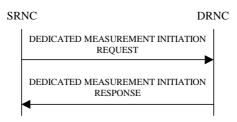


Figure 20: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the SRNC to the DRNC.

Upon reception, the DRNC shall initiate the requested dedicated measurement according to the parameters given in the request.

If the *Dedicated Measurement Object Type* IE is set to "RL", measurement results shall be reported for all the indicated Radio Links.

[TDD – If the *DPCH ID* IE is provided within the RL Information the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE is provided within the RL Information the measurement request shall apply for one existing DPCH per <u>CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable for this DPCH.]</u>

[FDD - If the *Dedicated Measurement Object Type* IE is set to "RLS", measurement results shall be reported for all the indicated Radio Link Sets.]

[FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RL", measurement results shall be reported for all current and future Radio Links within the UE Context.]

[TDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RL", measurement results shall be reported for one existing DPCH per CCTrCH in each used time slot of current and future Radio Links within the UE Context, provided the measurement type is applicable for the respective DPCH.]

[FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RLS", measurement results shall be reported for all the existing and future Radio Link Sets within the UE Context.]

If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the measurement report or in the measurement response, the latter only in the case the *Report Characteristics* IE is set to 'On-Demand'. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26].

If the *CFN* IE is provided, it indicates the frame for which the first measurement shall be provided. The provided measurement value shall be the one reported by the layer 3 filter referred to as point C in the measurement model [26].

Report characteristics

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

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

If the *Report Characteristics* IE is set to 'Periodic', the DRNS shall periodically initiate the Dedicated Measurement Report procedure for this measurement, with the requested report periodicity.

If the *Report Characteristics* IE is set to 'Event A', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event B', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event C', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the DRNS shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement

Threshold 2' and stays there for the 'Measurement Hysteresis Time', the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If 'Measurement Threshold 2' is not present, the DRNS shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the DRNS shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. . If 'Measurement Threshold 2' is not present, the DRNS shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is not set to 'On-Demand', the DRNS is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object(s) for which a measurement is defined exists any more the DRNS shall terminate the measurement locally without reporting this to the SRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the DRNS shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

The *Measurement Filter Coefficient* IE indicates how filtering of the dedicated measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

 $F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$

The variables in the formula are defined as follows:

 F_n is the updated filtered measurement result

 F_{n-1} is the old filtered measurement result

 M_n is the latest received measurement result from physical layer measurements

 $a = 1/2^{(k/2)}$, where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, a shall be set to 1 (no filtering)

In order to initialise the averaging filter, F_0 is set to M_1 when the first measurement result from the physical layer measurement is received.

Response message

If the DRNS was able to initiate the measurement requested by the SRNS it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement Id that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message.

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

8.3.11.3 Unsuccessful Operation

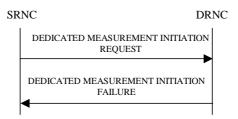


Figure 21: Dedicated Measurement Initiation procedure, Unsuccessful Operation

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. [11] or [14] to be measured on the Dedicated Measurement Object Type received in the *Dedicated Measurement Object Type* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message the DRNS shall regard the Dedicated Measurement Initiation procedure as failed.

If the requested measurement can not be initiated, the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message. The message shall include the same Measurement Id that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are:

Radio Network Layer Causes:

- Measurement not Supported For The Object
- Measurement Temporarily not Available

Miscellaneous Causes:

- Control Processing Overload
- HW Failure

8.3.11.4 Abnormal Conditions

-

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		_	
Measurement Id	M		9.2.1.37		YES	reject
Dedicated Measurement Object Type	М		9.2.1.17		YES	reject
CHOICE Dedicated Measurement Object Type	М				YES	reject
>RL					_	
>>RL Information		1 <maxn oofRLs></maxn 			EACH	reject
>>>RL-ID	М		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxn oofRLSet s></maxn 			EACH	reject
>>>RL-Set-ID	М		9.2.2.35		-	
Dedicated Measurement Type	М		9.2.1.18		YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
Report Characteristics	М		9.2.1.48		YES	reject
CFN reporting indicator	M		FN reporting indicator 9.2.1.28A		YES	reject
CFN	0		9.2.1.9		YES	reject

9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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

9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

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		-	· · ·
Measurement Id	М		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					-	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
>RLS or ALL RLS				FDD only	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		-	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
Criticality Diagnostics	0		9.2.1.13		YES	Ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started
	on.

9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Measurement Id	Μ		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	Μ			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					_	
>>RL Information		1 <maxnoo fRLs></maxnoo 			EACH	ignore
>>>RL-ID	Μ		9.2.1.49		-	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		-	
>RLS or ALL RLS				FDD only	-	
>>RL Set Information		1 <maxnoo fRLSets></maxnoo 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		-	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		_	

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on. [TDD – The RL may be always the same in case measurements on several DPCHs per RL are started .]
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

3GPP TSG RAN WG3 Meeting #21 Busan, Korea, 21st – 25th May 2001

		CHAN	GE R	EQUI	EST	•			CR-Form-v3
[#] 25	<mark>.423</mark> C	R <mark>388</mark>	ж	^{rev} 1	ж	Current vers	ion:	4.0.0	ж
For <u>HELP</u> on usin	ng this form	, see bottom c	of this pa	ge or lool	k at th	e pop-up text	over t	the X syr	nbols.
Proposed change affe	ects: ೫	(U)SIM	ME/UE	Ra	dio Ac	ccess Network	k X	Core Ne	etwork
Title: ೫ <mark>N</mark>	<u>/leasuremer</u>	nt clarifications							
Source: ೫ F	R-WG3								
Work item code: 🕱 🧻	ΓEI					Date: ೫	May	2001	
Category: ೫ /	4					Release: ೫	REL	4	
De	F (esser A (corre B (Addit C (Func D (Edito etailed expla	e following cate, ntial correction) sponds to a corr ion of feature), tional modification rial modifications anations of the a GPP TR 21.900.	rection in on of feat) above cate	ure)			(GSM (Relea (Relea (Relea	Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	
Reason for change:	Followir * The D procedu case of * In cas	he Common M since not nec are performed d where the co ng clarifications <i>PCH ID</i> IE is co re since not n not indicated where the me	essary fo d in a spo pommon n s are nec defined o ecessary DPCH ID ed Measu	or FDD. H ecific time neasuren essary fo ptional with for FDD I E needs rement (lowev e slot nent s or the thin th . In ca s to be Dbject	er, common n only. Thus, the hall be perform Dedicated Me he Dedicated I use of TDD, the clarified. <i>Type</i> IE is se	neasu e time med. easure Measu e DRN	rements slot has ment pro urement l NS behav	defined to be ocedures: nitiation viour in
Summary of change:	Within t * Clarific	our of Node B i ON MEASURE he Dedicated I cation of DRNS cation which m ement Object	MENT II Measure S behavio	NITIATIO ment pro pur if no h nent shall	N RE	QUEST mess e following ch / <i>ID</i> IE is provi arted in case	age fo anges ded	or TDD. are requ	
Consequences if not approved:	cause <u>Backw</u>	RNS behaviou confusion and ard compatibil R is backward	l problem l <u>ity:</u>	s in a mu	ıltiven	dor environme	ent		

Clauses affected:	% 8.3.11, 8.5.2, 9.1.28, 9.1.29, 9.1.31
Other specs	X Other core specifications # 25.433 CR448 R99 25.433 CR449 Rel 4 25.423 CR387 R99
affected:	Test specifications O&M Specifications
Other comments:	¥

How to create CRs using this form:

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

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

8.3.11 Dedicated Measurement Initiation

8.3.11.1 General

This procedure is used by an SRNS to request the initiation of dedicated measurements in a DRNS.

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

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.11.2 Successful Operation

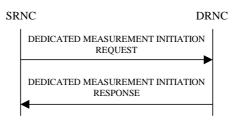


Figure 20: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the SRNC to the DRNC.

Upon reception, the DRNC shall initiate the requested dedicated measurement according to the parameters given in the request.

If the *Dedicated Measurement Object Type* IE is set to "RL", measurement results shall be reported for all the indicated Radio Links.

[TDD – If the *DPCH ID* IE is provided within the RL Information the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE is provided within the RL Information the measurement request shall apply for one existing DPCH per <u>CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this DPCH.]</u>

[FDD - If the *Dedicated Measurement Object Type* IE is set to "RLS", measurement results shall be reported for all the indicated Radio Link Sets.]

[FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RL", measurement results shall be reported for all current and future Radio Links within the UE Context.]

[TDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RL", measurement results shall be reported for one existing DPCH per CCTrCH in used each time slot of current and future Radio Links within the UE Context, provided the measurement type is applicable to the respective DPCH.]

[FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RLS", measurement results shall be reported for all the existing and future Radio Link Sets within the UE Context.]

If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the measurement report or in the measurement response, the latter only in the case the *Report Characteristics* IE is set to 'On-Demand'. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26].

If the *CFN* IE is provided, it indicates the frame for which the first measurement shall be provided. The provided measurement value shall be the one reported by the layer 3 filter referred to as point C in the measurement model [26].

Report characteristics

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

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

If the *Report Characteristics* IE is set to 'Periodic', the DRNS shall periodically initiate the Dedicated Measurement Report procedure for this measurement, with the requested report periodicity.

If the *Report Characteristics* IE is set to 'Event A', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event B', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event C', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the DRNS shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement

Threshold 2' and stays there for the 'Measurement Hysteresis Time', the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If 'Measurement Threshold 2' is not present, the DRNS shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the DRNS shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. . If 'Measurement Threshold 2' is not present, the DRNS shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is not set to 'On-Demand', the DRNS is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object(s) for which a measurement is defined exists any more the DRNS shall terminate the measurement locally without reporting this to the SRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the DRNS shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

The *Measurement Filter Coefficient* IE indicates how filtering of the dedicated measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

 $F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$

The variables in the formula are defined as follows:

 F_n is the updated filtered measurement result

 F_{n-1} is the old filtered measurement result

 M_n is the latest received measurement result from physical layer measurements

 $a = 1/2^{(k/2)}$, where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, *a* shall be set to 1 (no filtering)

In order to initialise the averaging filter, F_0 is set to M_1 when the first measurement result from the physical layer measurement is received.

Response message

If the DRNS was able to initiate the measurement requested by the SRNS it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement Id that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message.

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

8.3.11.3 Unsuccessful Operation

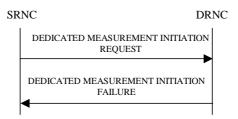


Figure 21: Dedicated Measurement Initiation procedure, Unsuccessful Operation

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. [11] or [14] to be measured on the Dedicated Measurement Object Type received in the *Dedicated Measurement Object Type* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message the DRNS shall regard the Dedicated Measurement Initiation procedure as failed.

If the requested measurement can not be initiated, the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message. The message shall include the same Measurement Id that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are:

Radio Network Layer Causes:

- Measurement not Supported For The Object
- Measurement Temporarily not Available

Miscellaneous Causes:

- Control Processing Overload
- HW Failure

8.3.11.4 Abnormal Conditions

-

8.5.2 Common Measurement Initiation

8.5.2.1 General

This procedure is used by an RNC to request the initiation of measurements of common resources to another RNC. The requesting RNC is referred to as RNC_1 and the RNC to which the request is sent is referred to as RNC_2 .

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

8.5.2.2 Successful Operation

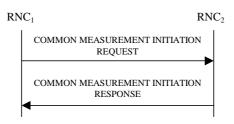


Figure 30A: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the RNC₁ to the RNC₂.

Upon reception, the RNC_2 shall initiate the requested measurement according to the parameters given in the request.

Unless specified below, the meaning of the parameters are given in other specifications.

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

If the *Common Measurement Type* IE is not set to 'SFN-SFN Observed Time Difference' and the *SFN Reporting Indicator* IE is set to "FN Reporting Required", the *SFN* IE shall be included in the measurement report or in the measurement response, the latter only in the case the *Report Characteristics* IE is set to 'On-Demand'. The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26]. If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then the *SFN Reporting Indicator* IE is ignored.

If the *SFN* IE is provided, it indicates the frame for which the first measurement shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Object Type* IE is set to "UP Neighbouring Cell", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the first *UTRAN Cell Identifier* IE.

Common measurement type

If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then the RNC₂ shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID* IE and the neighbouring cells identified by the *UTRAN Cell Identifier* IE (*UC-Id*).

If the *Common Measurement Type* IE is set to 'load', the RNC2 shall initiate measurements of uplink and downlink load on the measured object. If either uplink or downlink load satisfies the requested report characteristics, the RNC2 shall report the result of both uplink and downlink measurements.

Report characteristics

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

If the *Report Characteristics* IE is set to 'On-Demand', the RNC₂ shall report the result of the requested measurement immediately.

If the *Report Characteristics* IE is set to 'Periodic', the RNC₂ shall periodically initiate a Measurement Reporting procedure for this measurement, with the requested report frequency. Furthermore, if the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then all the available measurements shall be reported in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE and the neighbouring cells with no measurement result available shall be reported in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE.

If the *Report Characteristics* IE is set to 'Event A', the RNC₂ shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the RNC₂ shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event B', the RNC₂ shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the RNC₂ shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event C', the RNC₂ shall initiate a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the RNC₂ shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the RNC_2 shall initiate the Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the RNC_2 shall initiate the

Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the RNC₂ shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If 'Measurement Threshold 2' is not present, the RNC₂ shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the RNC₂ shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the RNC₂ shall initiate the Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the RNC₂ shall also initiate the Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the RNC₂ shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If 'Measurement Threshold 2' is not present, the RNC₂ shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the RNC₂ shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'On Modification', the RNC_2 shall report the result of the requested measurement immediately. Then the RNC_2 shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

- 1. If the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frame for LCS':
 - If the T_{UTRAN-GPS} Change Limit IE is included in the T_{UTRAN-GPS} Measurement Threshold Information IE, the RNC₂ shall each time a new measurement result is received from the physical layer measurement, calculate the change of T_{UTRAN-GPS} value (F_n). The RNC₂ shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of F_n rises above the threshold indicated by the T_{UTRAN-GPS} Change Limit IE. The change of T_{UTRAN-GPS} value (F_n) is calculated according to the following:

 $F_n=0$ for n=0

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

 F_n is the change of the T_{UTRAN-GPS} value expressed in unit [1/16 chip] when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received from the physical layer measurements, measured at SFN_n.

 M_{n-1} is the previous measurement result received from the physical layer measurements, measured at SFN_{n-1}.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the *Predicted* $T_{UTRAN-GPS}$ *Deviation Limit* IE is included in the $T_{UTRAN-GPS}$ *Measurement Threshold Information* IE, the RNC₂ shall, each time a new measurement result is received from the physical layer measurement, update the P_n and F_n. The RNC₂ shall initiate the Common Measurement

Reporting procedure and set n equal to zero when F_n rises above the threshold indicated by the *Predicted T_{UTRAN-GPS} Deviation Limit* IE. The P_n and F_n are calculated according to the following:

 $P_n = b \text{ for } n = 0$

 $P_n = ((1+a) * ((SFN_n - SFN_{n-1}) \mod 4096) * 10*3.84*10^3*16 + P_{n-1}) \mod 37158912000000 \text{ for } n > 0$

 $F_n = min(abs(M_n - P_n), abs(M_n - P_n - 37158912000000), abs(M_n - P_n + 37158912000000))$ for n > 0

 P_n is the predicted T_{UTRAN-GPS} value when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T_{UTRAN-GPS} Drift Rate value.

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

 F_n is the deviation of the last measurement result from the predicted T_{UTRAN-GPS} value (P_n) when n measurements have been received after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received from the physical layer measurements, measured at SFN_n.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

The $T_{UTRAN-GPS}$ Drift Rate is determined by the Node B in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

If the Common Measurement Type IE is set to 'SFN-SFN Observed Time Difference':

- If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the RNC₂ shall each time a new measurement result is received from the physical layer measurement, calculate the change of SFN-SFN value (F_n). The RNC₂ shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when the absolute value of F_n rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

 $F_n=0$ for n=0

2.

 $F_n = (M_n - a) \mod 40960$ for n > 0

 F_n is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN.

 M_n is the latest measurement result received from the physical layer measurements, measured at SFN_n.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the RNC₂ shall each time a new measurement result is received from the physical layer measurement, update the P_n and F_n. The RNC₂ shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when F_n rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P_n and F_n are calculated according to the following:

 $P_n = b$ for n = 0

 $P_n = ((a * (15*((SFN_n - SFN_{n-1}) \mod 4096) + (TS_n - TS_{n-1}))*2560*16 + P_{n-1}) \mod 40960) - 20480$ for n > 0

 $F_n = min(abs(M_n - P_n), abs(M_n - P_n - 40960), abs(M_n - P_n + 40960))$ for n > 0

 P_n is the predicted *SFN-SFN* value when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported *SFN-SFN* Drift Rate value.

b is the last reported SFN-SFN value.

 F_n is the deviation of the last measurement result from the predicted *SFN-SFN* value (P_n) when n measurements has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received from the physical layer measurements, measured at the Time Slot TS_n of the Frame SFN_n.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the Node B in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

If the *Report Characteristics* IE is not set to 'On-Demand', the RNC₂ is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists any more the RNC₂ shall terminate the measurement locally without reporting this to RNC₁.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the RNC_2 shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

Common measurement accuracy

If the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frames for LCS', then the *UTRAN GPS Timing Measurement Minimum Accuracy Class* IE included in the *Report Characteristics* IE indicates the minimum accuracy class required in the measurements.

- If the UTRAN GPS Timing Measurement Minimum Accuracy Class IE indicates 'Class A', then the concerned RNC₂ shall perform the measurement with the highest supported accuracy according to any of the accuracy classes A, B or C.
- If the UTRAN GPS Timing Measurement Minimum Accuracy Class IE indicates the 'Class B', then the concerned RNC₂ shall perform the measurements with the highest supported accuracy according to class B or C.

- If the UTRAN GPS Timing Measurement Minimum Accuracy Class IE indicates 'Class C', then the concerned RNC₂ shall perform the measurements with the highest supported accuracy according to class C only.
- If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then the concerned RNC₂ shall initiate the SFN-SFN observed Time Difference measurements between the reference cell identified by *UC-ID* IE and the neighbouring cells identified by their UC-ID. The *Report Characteristics* IE applies to each of these measurements.

Higher layer filtering

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

 $F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$

The variables in the formula are defined as follows

 F_n is the updated filtered measurement result

 F_{n-1} is the old filtered measurement result

 M_n is the latest received measurement result from physical layer measurements

 $a = 1/2^{(k/2)}$ -, where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, a shall be set to 1 (no filtering)

In order to initialise the averaging filter, F_0 is set to M_1 when the first measurement result from the physical layer measurement is received.

Response message

If the RNC₂ was able to initiate the measurement requested by RNC₁ it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent. The message shall include the same Measurement ID that was used in the measurement request. Only in the case when the *Report Characteristics* IE is set to "On-Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result. It shall also the *Common Measurement Achieved Accuracy* IE in the *Common Measurement Value* IE if the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frame for LCS'.

Furthermore, if the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then all the available measurements shall be reported in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE and the neighbouring cells with no measurement result available shall be reported in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE.

8.5.2.3 Unsuccessful Operation

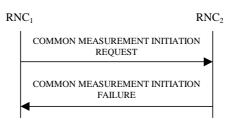


Figure 30B: Common Measurement Initiation procedure, Unsuccessful Operation

If the Common Measurement Type received in the *Common Measurement Type* IE is not 'load', and if the Common Measurement Type received in the *Common Measurement Type* IE is not defined in ref. [11] or [15] to be measured on the Common Measurement Object Type received in the *Common Measurement Object Type* IE in the COMMON MEASUREMENT INITIATION REQUEST message the RNC₂ shall regard the Common Measurement Initiation procedure as failed.

If the requested measurement cannot be initiated, the RNC₂ shall send a COMMON MEASUREMENT INITIATION FAILURE message. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC₂ shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frame for LCS', but the $T_{UTRAN-GPS}$ Measurement Minimum Accuracy Class IE in the Common Measurement Accuracy IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC₂ shall regard the Common Measurement Initiation procedure as failed.

[TDD - If the common measurement type requires the Time Slot Information but the *Time* Slot IE is not provided in the Common Measurement Object Type IE in the COMMON MEASUREMENT INITIATION REQUEST message the DRNS shall regard the Common Measurement Initiation procedure as failed.]

Typical cause values are as follows:

Radio Network Layer Cause

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

8.5.2.4 Abnormal Conditions

-

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
			Reference			
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
Measurement Id	Μ		9.2.1.37		YES	reject
Dedicated Measurement	Μ		9.2.1.17		YES	reject
Object Type						
CHOICE Dedicated	М				YES	reject
Measurement Object Type						-
>RL					_	
>>RL Information		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxn<>			EACH	reject
		oofRLs>				-
>>>RL-ID	Μ		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>reject</td></maxn<>			EACH	reject
		oofRLSet				-
		S>				
>>>RL-Set-ID	Μ		9.2.2.35		_	
Dedicated Measurement Type	Μ		9.2.1.18		YES	reject
Measurement Filter	0		9.2.1.36		YES	reject
Coefficient						
Report Characteristics	Μ		9.2.1.48		YES	reject
CFN reporting indicator	Μ		FN		YES	reject
			reporting			
			indicator			
			9.2.1.28A			
CFN	0		9.2.1.9		YES	reject

9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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

9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

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		_	•
Measurement Id	М		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				With	_	
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>>>Dedicated Measurement Value	Μ		9.2.1.19		-	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
>RLS or ALL RLS				FDD only	_	
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		_	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	-	
Criticality Diagnostics	0		9.2.1.13		YES	Ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started
	on.

9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	y
Measurement Id	М		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	Μ			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					_	
>>RL Information		1 <maxnoo fRLs></maxnoo 			EACH	ignore
>>>RL-ID	Μ		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		-	
>RLS or ALL RLS				FDD only	_	
>>RL Set Information		1 <maxnoo fRLSets></maxnoo 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		—	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		_	

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started
MaxnoofRLSets	on. Maximum number of individual RL Sets the measurement can be started on.

	CHANGE REQUEST	CR-Form-v3
ж	25.423 CR 389 #rev - #	Current version: 3.5.0 [#]
For <u>HELP</u> on us	ing this form, see bottom of this page or look at th	e pop-up text over the # symbols.
Proposed change a	ffects: # (U)SIM ME/UE Radio Ad	ccess Network X Core Network
Title: %	Clarification on DL Power reference	
Source: ೫	R-WG3	
Work item code: ℜ	TEI	Date:
Category: ೫	F	Release: # R99
	Use <u>one</u> of the following categories: F (essential 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 TR 21.900.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) e) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
Reason for change	* # In the current RNSAP specs the reference of	DL Power is incorrect. The
	DL Power should not be defined in the FDD s be defined generalized for FDD and TDD in c	•
Summary of chang	e: # DL Power is defined in subclause 9.2.1.x for	FDD and TDD.
	All affected references in the tabular formats changed to 9.2.1.x.	of the DL Power 9.2.2.10 are
Consequences if not approved:	# If this CR is not approved, definition and refer	rence of DL Power is incorrect.
	Backward compatibility:	
	This CR is backward compatible with the prev ASN.1 notation is not affected.	vious version of NBAP, because
Clauses affected:	% 9.1.3.1, 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7 9.1.17.1, 9.1.17.2, 9.1.20, 9.2.2.10 new: 9.2.1.x	7.2, 9.1.8.1, 9.1.12.1, 9.1.12.2,
Other specs affected:	XOther core specificationsXCR390Test specificationsO&M Specifications	REL-4
Other comments:	ж	

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

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

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 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		_	· · ·
SRNC-Id	М		RNC-Id		YES	reject
			9.2.1.50			_
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	Μ		9.2.2.25		-	
Code Length						
>Max Number of UL	C –		9.2.2.24		-	
DPDCHs	CodeLen					
>Puncture Limit	M		9.2.1.46	For the UL.	_	
>TFCS	М		TFCS for		-	
			the UL			
			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	M		9.2.2.8		_	
>SSDT Cell Identity Length	0		9.2.2.41		_	
>S Field Length	0		9.2.2.36		_	
DL DPCH Information		1			YES	reject
>TFCS	М		TFCS for		-	
			the DL.			
			9.2.1.63			
>DL DPCH Slot Format	M		9.2.2.9		-	
>Number of DL	М		9.2.2.26A		-	
Channelisation Codes	N.4		0.0.0.40			
>TFCI Signalling Mode	M		9.2.2.46		_	
>TFCI Presence	C- SlotFormat		9.2.1.55		_	
>Multiplexing Position	M		9.2.2.26		_	
>Power Offset Information	101	1	0.2.2.20		_	
>>PO1	М	1	Power	Power offset	_	
221 01	171		Offset	for the TFCI		
			9.2.2.30	bits.		
>>PO2	М		Power	Power offset	_	
			Offset	for the TPC		
			9.2.2.30	bits.		
>>PO3	М		Power	Power offset	_	
			Offset	for the pilot		
			9.2.2.30	bits.	<u> </u>	<u> </u>
>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		_	
DCH Information	M	1	DCH FDD		YES	reject
			Information 9.2.2.4A			
DSCH Information	0		DSCH		YES	reject
			FDD			
			Information			
			9.2.2.13A			
RL Information		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxn<>			EACH	notify
		oofRLs>			L	
>RL ID	Μ		9.2.1.49		_	

	IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	>C-ld	М		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		-	
Ĭ	>Initial DL TX Power	C_ifAlone		DL Power 9.2.2.10 9.2.1.x		_	
	>Primary CPICH Ec/No	C_ifAlone		9.2.2.32		-	
	>SSDT Cell Identity	0		9.2.2.40		-	
	>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
	ransmission Gap Pattern sequence Information	C – CM Active		9.2.2.47A		YES	reject
	ctive Pattern Sequence	0		9.2.2.A		YES	reject

Condition	Explanation
CodeLen	This IE shall be present only if Min UL Channelisation Code length
	IE equals to 4
SlotFormat	This IE shall only be present if the DL DPCH Slot Format IE is equal
	to any of the values 12 to 16.
NotFirstRL	This IE shall be present only if the RL is not the first one in the RL
	Information IE.
Diversity mode	This IE shall be present unless Diversity Mode IE in UL DPCH
	Information IE is "none"
C_IfAlone	Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be
	present.
CM_Active	This IE shall be present when the Active Pattern Sequence
	Information IE is present, otherwise this IE is optional.

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

/* partly omitted */

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 	0.2.1111		EACH	ignore
>RL ID	М	ON NEOF	9.2.1.49		_	
>RL Set ID	M		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.52 9.2.1.5A			
>UTRAN Access Point	0				_	
Position	-		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	М		FDD DL Code Information 9.2.2.14A		_	
>Diversity Indication	C- NotFirstRL		9.2.1.21		_	
>CHOICE Diversity Indication	М				_	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>Non Combining or First RL				Ŭ	_	
>>>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	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		_	
>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	0		9.2.1.44		_	
>DSCH Information Response	0		DSCH FDD		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
			Information Response 9.2.2.13B			
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>PC Preamble	M		9.2.2.27a		_	
>SRB Delay	M		9.2.2.39A		_	
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE shall be present only if the RL is not the first RL in the RL
	Information

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

9.1.4.2 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
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		9.2.1.12		YES	
RL Information Response	0	1	9.2.1.11		YES	ignore
	N.4	1	0.0.1.40		TES	ignore
>RL ID	M		9.2.1.49		_	
>URA Information	0	-	9.2.1.70B	-	_	
>SAI	М		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		-	
Position						
>UL Time Slot ISCP Info	М		9.2.3.13D		_	
>Maximum Uplink SIR	Μ		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 9.2.2.10		-	
>Minimum DL TX Power	M		<u>9.2.1.x</u> DL Power		_	
			<u>9.2.2.10</u> <u>9.2.1.x</u>			
>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	1	9.2.1.51		_	
>Block STTD Indicator	0		9.2.3.A		_	
>PCCPCH Power	0		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	M		9.2.3.7E			
Configuration					_	
>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			YES	ignore
>>>Repetition Period	М	1	9.2.3.7		-	
>>>Repetition Length	M	1	9.2.3.6		_	
>>>TDD DPCH Offset	M	1	9.2.3.8A	1	_	
>>>UL Timeslot	M	1	9.2.3.13C		_	
Information	111	1	0.2.0.100			
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	+ <u>-</u> -	9.2.3.2	1	_	
>>DL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	М	01	9.2.3.7		120	Ignore
		1		+		
>>>Repetition Length	M		9.2.3.6		—	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot	М	1	9.2.3.2C			
Information						

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	Μ		9.2.1.26A		-	
>DSCH Flow Control Information	М		9.2.1.26B		-	
>>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		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	Μ		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		YES	ignore
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation			
Case2	This IE shall be present when Sync Case IE is Case2.			

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.

8

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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		_	
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		9.2.1.12		YES	ignore
CHOICE Cause Level	M		9.2.1.11		YES	
	IVI				TES	ignore
>General			0.045		_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxn oofRLs></maxn 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>			2/10/1	ignore
>>>RL ID	М	on Lo Tr	9.2.1.49		_	
>>>RL Set ID	M	+	9.2.2.35			
>>>URA Information	0	<u> </u>	9.2.2.35 9.2.1.70B			
	M				_	
>>>SAI			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	М		FDD DL Code		YES	ignore
			Information 9.2.2.14A			
>>>Diversity Indication	М		9.2.1.21		_	
>>>CHOICE Diversity	M		5.2.1.21		_	
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	-	
>>>>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	М		9.2.1.35		-	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10 9.2.1.x		_	
>>>Minimum DL TX Power	M		DL Power 9.2.2.10 9.2.1.x		_	
>>>DSCH Information	0	1	DSCH		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response			FDD Information Response 9.2.2.13B			
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		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	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
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
>Diversity Indication	М		9.2.1.21		_	
>CHOICE Diversity Indication	М				_	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>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 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	М		9.2.2.39A		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

11

9.1.7.2 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		-	
RL Information Response		1	0.2.1.00		YES	ignore
>RL ID	М	1	9.2.1.49		-	ignore
>URA Information	0		9.2.1.70B			
>SAI	M		9.2.1.52			
>Cell GAI	0		9.2.1.52 9.2.1.5A		1	
>UTRAN Access Point			9.2.1.5A 9.2.1.70A		_	
Position	0				_	
>UL Time Slot ISCP Info	М		9.2.3.13D		-	
>Minimum Uplink SIR	Μ		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx	М		9.2.1.35		-	
Power						
>Maximum DL TX Power	М		DL Power 9.2.2.10		-	
			<u>9.2.1.x</u>			
>Minimum DL TX Power	М		DL Power		-	
			9.2.2.10			
			<u>9.2.1.x</u>			
>Timing Advance Applied	М		9.2.3.12A		-	
>Alpha Value	М		9.2.3.a		_	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation	М		9.2.3.7E		_	
Configuration >Secondary CCPCH Info	0		9.2.3.7B			
TDD	0		9.2.3.76		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		-	
>>UL DPCH		01			YES	ignore
Information						
>>>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	M		9.2.3.13C		_	
>DL CCTrCH Information		0 <maxnoof< td=""><td> </td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
		CCTrCHs>		1 OF DOIT	OLOBAL	ignore
>>CCTrCH ID	М	001101102	9.2.3.2			
>>DL DPCH	101	01	0.2.0.2		YES	ignore
Information		0			120	ignole
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.7		_	
					1	
>>>TDD DPCH Offset >>>DL Timeslot	M		9.2.3.8A 9.2.3.2C		_	
Information			9.2.3.20		_	
>DCH Information		01			_	
>>Diversity Indication	М		9.2.1.21		_	
>>CHOICE Diversity Indication	М					
>>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL	-	
>>>Non Combining					-	
>>>>DCH Information Response	Μ		9.2.1.16A		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof DSCHs></maxnoof 				
>>DSCH ID	М		9.2.1.26A		-	
>>Transport Format Management	М		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.1.26B		-	
>>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	М		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		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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 one UE.

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	М		9.2.1.59		_	
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-1>				_
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		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>				
>>>RL ID	М		9.2.1.49		-	
>>>RL Set ID	М		9.2.2.35		-	
>>>URA Information	0		9.2.1.70B		-	
>>>SAI	М	ļ	9.2.1.52		-	
>>>Cell GAI	0	ļ	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		YES	ignore
			Information 9.2.2.14A			
>>>Diversity Indication	M		9.2.1.21		-	
>>>CHOICE Diversity Indication	М				-	
>>>Combining					-	
>>>>RL ID	M		9.2.1.49	Reference RL ID	_	
>>>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 9.2.2.10 9.2.1.x		_	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		-	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.1.12 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	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 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		_	
>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
>DSCHs to be Added or Modified	0		DSCH FDD Information Response 9.2.2.13B		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

16

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		01			YES	ignore
>RL ID	М		9.2.1.49			.g
>Maximum Uplink SIR	0		Uplink SIR		_	
	Ũ		9.2.1.69			
>Minimum Uplink SIR	0		Uplink SIR		_	
	Ũ		9.2.1.69			
>Maximum DL TX Power	0		DL Power		_	
	Ũ		9.2.2.10			
			9.2.1.x			
>Minimum DL TX Power	0		DL Power		_	
	Ũ		9.2.2.10			
			<u>9.2.1.x</u>			
>Secondary CCPCH Info	0		9.2.3.7B		_	
TDD	U		0.2.0.70			
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	001101107	9.2.3.2		_	
>>UL DPCH to be		01	0.2.0.2		YES	ignore
Added		01				gnore
>>>Repetition Period	М		9.2.3.7			
					_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH	М		9.2.3.8A		-	
Offset	-					
>>> Rx Timing	0		9.2.3.7A		-	
Deviation						
>>>UL Timeslot	М		9.2.3.13C		-	
Information						
>>UL DPCH to be		01			YES	ignore
Modified						
>>>Repetition Period	0		9.2.3.7		-	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH	0		9.2.3.8A		-	
Offset						
>>>UL Timeslot Information		0 to <maxnooft S></maxnooft 			-	
>>>>Time Slot	М		9.2.1.56		-	
>>>Midamble	0		9.2.3.4		_	
Shift and Burst Type			00.1			
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information		0 to <maxnoofd PCH></maxnoofd 			_	
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code	0		9.2.3.8		_	
>>UL DPCH to be Deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3		_	
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH to be		01	0.2.0.2		YES	ignore
Added >>>Repetition Period	M	0	9.2.3.7		-	GUOLE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot	М		9.2.3.2C		-	
Information						
>>DL DPCH to be		01			YES	ignore
Modified					_	5
>>>Repetition Period	0		9.2.3.7		_	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>DL Timeslot Information		0 to <maxnooft< td=""><td></td><td></td><td>_</td><td></td></maxnooft<>			_	
		S>				
>>>>Time Slot	M		9.2.1.56		-	
>>>>Midamble Shift and Burst Type	0		9.2.3.4		-	
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information		0 to <maxnoofd PCH></maxnoofd 			_	
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code	0		9.2.3.8		_	
>>DL DPCH to be Deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3		_	
>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		9.2.1.26A		-	
>>Transport Format Management	М		9.2.3.13		-	
>DSCH Flow Control Information	М		9.2.1.26B		_	
>>Binding ID	0		9.2.1.3		_	
>>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		-	
Criticality Diagnostics	0	1	9.2.1.13		YES	ignore

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.
MaxnoofDPCH	Maximum number of DPCH for a UE.

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

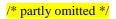
9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	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	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 9.2.2.10 9.2.1.x		-	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		-	
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.1.17.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information Response		01			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 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore



9.1.20	DL POWER CONTROL REQUEST [FDD]	
--------	--------------------------------	--

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Power Adjustment Type	М		9.2.2.28		YES	ignore
DL Reference Power	C- Common		DL Power 9.2.2.10 9.2.1.x		YES	ignore
Inner Loop DL PC Status	0		9.2.2.21a		YES	ignore
DL Reference Power Information	C- Individual	1 <maxnoo fRLs></maxnoo 			GLOBAL	ignore
>RL ID	Μ		9.2.1.49		-	
>DL Reference Power	М		DL Power 9.2.2.10 9.2.1.x		-	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.23		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.B		YES	ignore
Adjustment Ratio	C- CommonO rIndividual		9.2.2.C		YES	ignore

Condition	Explanation
Common	This IE shall be present only if the Power Adjustment Type IE is set
	to 'Common'.
Individual	This IE shall be present only if the Power Adjustment Type IE is set
	to 'Individual'.
CommonOrIndividual	This IE shall be present only if the Power Adjustment Type IE is set
	to 'Common' or 'Individual'.

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

9.2.1.x DL Power

<u>The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - PCCPCH power]</u> configured in a cell [FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols].

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

/* partly omitted */

9.2.2.10 DL Power

The DL Power IE indicates the power level of the DPDCH symbols, expressed as a relative value with respect to the CPICH power.

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

void

	CHANGE REQUEST
ж	25.423 CR 390 # rev - # Current version: 4.0.0 #
For <u>HELP</u> on usi	ing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.
Proposed change af	ffects: # (U)SIM ME/UE Radio Access Network X Core Network
Title: ೫ (Clarification on DL Power reference
Source: ೫ F	R-WG3
Work item code: #	TEI Date: # May 2001
Category: ೫	A Release: # REL-4
E	Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D (Editorial modification)R99D (Editorial modification)R99D (Editorial modification)R91C (Functional modification)R92D (Editorial modification)R93D (Editorial modification)R12-4D (Editorial modification)R21-5D (Editorial modification)R21-5D (Editorial modification)R22-5
Reason for change:	In the current RNSAP specs the reference of DL Power is incorrect. The DL Power should not be defined in the FDD specific clause 9.2.2.10, but it should be defined generalized for FDD and TDD in clause 9.2.1.x like in the NBAP specs.
Summary of change	 DL Power is defined in subclause 9.2.1.x for FDD and TDD. All affected references in the tabular formats of the DL Power 9.2.2.10 are changed to 9.2.1.x.
Consequences if not approved:	# If this CR is not approved, definition and reference of DL Power is incorrect.
	Backward compatibility: This CR is backward compatible with the previous version of NBAP, because ASN.1 notation is not affected.
Clauses affected:	# 9.1.3.1, 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1, 9.1.12.1, 9.1.12.2,
	9.1.17.1, 9.1.17.2, 9.1.20, 9.2.2.10 new: 9.2.1.x
Other specs affected:	X Other core specifications X CR389 R99 Test specifications O&M Specifications
Other comments:	¥

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

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

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 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		-	
SRNC-Id	М		RNC-Id		YES	reject
			9.2.1.50			-
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	M		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		TFCS for		-	
			the UL			
			9.2.1.63			
>UL DPCCH Slot Format	М		9.2.2.52		_	
>Uplink SIR Target	0		Uplink SIR		-	
Di constitucione e de	N.4		9.2.1.69			
>Diversity mode	M		9.2.2.8		_	
>SSDT Cell Identity Length	0		9.2.2.41		_	
>S Field Length	0		9.2.2.36		-	
>DPC Mode DL DPCH Information	0	1	9.2.2.12A		YES YES	reject
>TFCS	M	7	TFCS for		TES	reject
>1FC3			the DL. 9.2.1.63		_	
>DL DPCH Slot Format	М		9.2.2.9		-	
>Number of DL Channelisation Codes	М		9.2.2.26A		-	
>TFCI Signalling Mode	М		9.2.2.46		_	
>TFCI Presence	C-		9.2.1.55		-	
Multiplaying Depiting	SlotFormat		0.0.00			
>Multiplexing Position >Power Offset Information	М	4	9.2.2.26		_	
>>PO1	M	1	Power	Power offset	_	
>>r01			Offset 9.2.2.30	for the TFCI 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		-	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	М		9.2.2.21a			
DCH Information	М		DCH FDD Information 9.2.2.4A		YES	reject
DSCH Information	0		DSCH FDD Information 9.2.2.13A		YES	reject
RL Information		1 <maxn oofRLs></maxn 			EACH	notify

	IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	>RL ID	М		9.2.1.49		_	
	>C-ld	M		9.2.1.6		_	
	>First RLS Indicator	M		9.2.2.16A		-	
	>Frame Offset	M		9.2.1.30		_	
	>Chip Offset	M		9.2.2.1		_	
	>Propagation Delay	0		9.2.2.33		_	
	>Diversity Control Field	C – NotFirstRL		9.2.1.20		-	
	>Initial DL TX Power	C_ifAlone		DL Power 9.2.2.10 9.2.1.x		-	
	>Primary CPICH Ec/No	C_ifAlone		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
	ansmission Gap Pattern	C – CM Active		9.2.2.47A		YES	reject
Ac	ctive Pattern Sequence	0		9.2.2.A		YES	reject

Condition	Explanation
CodeLen	This IE shall be present only if Min UL Channelisation Code length
	IE equals to 4
SlotFormat	This IE shall only be present if the DL DPCH Slot Format IE is equal
	to any of the values 12 to 16.
NotFirstRL	This IE shall be present only if the RL is not the first one in the RL
	Information IE.
Diversity mode	This IE shall be present unless Diversity Mode IE in UL DPCH
	Information IE is "none"
C_IfAlone	Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be
	present.
CM_Active	This IE shall be present when the Active Pattern Sequence
	Information IE is present, otherwise this IE is optional.
EDSCHPC	This IE shall be present if Enhanced DSCH PC IE is present in the
	DSCH Information IE.

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 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	- U	1 <maxno< td=""><td>0.2.1.11</td><td></td><td>EACH</td><td>ignore</td></maxno<>	0.2.1.11		EACH	ignore
		ofRLs>			EXION	ignore
>RL ID	М		9.2.1.49		-	
>RL Set ID	М		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 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	М		FDD DL Code Information 9.2.2.14A		_	
>Diversity Indication	C- NotFirstRL		9.2.1.21		_	
>CHOICE Diversity Indication	M				_	
>>Combining						
>>>RL ID	M		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	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		-	
>Minimum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		-	
>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	0		9.2.1.44		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>DSCH Information Response	0		DSCH 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		YES	ignore
>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
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE shall be present only if the RL is not the first RL in the RL
	Information

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

9.1.4.2 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		_	
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	0.2.1.11	Mandatory For 3.84Mcps TDD only	YES	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	M	1	Uplink SIR	+	_	
			9.2.1.69		_	
>Maximum Allowed UL Tx	М		9.2.1.69			
Power					_	
>Maximum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		_	
>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		_	
>Block STTD Indicator	0		9.2.3.A		_	
>PCCPCH Power	0		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A		_	
>Alpha Value	M		9.2.3.12A 9.2.3.a			
>UL PhysCH SF Variation	M		9.2.3.a 9.2.3.13B			
>Synchronisation Configuration	M		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		-	
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2	ł	_	
>>DL DPCH Information		01	5.2.0.2	1	YES	ignore
>>>Repetition Period	М	0	9.2.3.7		-	ignore
>>>Repetition Length	M		9.2.3.6	+		
					_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>DL Timeslot Information	М		9.2.3.2C			
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response	-	0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.26A		-	
>DSCH Flow Control Information	М		9.2.1.26B		-	
>>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		0 <maxnoof USCHs></maxnoof 			GLOBAL	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		YES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
RL Information Response LCR		01		Mandatory For 1.28Mcps TDD only	YES	ignore
>RL ID	М		9.2.1.49		-	
>URA Information	М		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 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		-	
>Maximum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		-	
>Minimum DL TX Power	М		DL Power 9.2.2.10 9.2.1.x		-	
>UL PhysCH SF Variation	М	ſ	9.2.3.13B		-	
>UL CCTrCH Information LCR		0 <maxno ofCCTrCH</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ	sLCR>	9.2.3.2		_	
>>UL DPCH Information LCR		01	3.2.3.2		YES	ignore
>>>Repetition Period	M	+	9.2.3.7		_	
>>>Repetition Length	M		9.2.3.7		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot Information LCR	M		9.2.3.x5		-	
>DL CCTrCH Information		0 <maxno< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxno<>		For DCH	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
LCR		ofCCTrCH				
		sLCR>				
>>CCTrCH ID	Μ		9.2.3.2		_	
>>DL DPCH Information LCR		01			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 Information LCR	Μ		9.2.3.2E			
>>>TSTD Indicator	Μ		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		9.2.1.26A		-	
>>DSCH Flow Control Information	М		9.2.1.26B		-	
>>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	Μ		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		-	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case2	This IE shall be present when Sync Case IE is Case2.

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

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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		-	Тејест
D-RNTI	0					ignoro
			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	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.5		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1 <maxn oofRLs></maxn 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>Cause	M		9.2.1.5		_	
>>Successful RL	IVI	0 <maxno< td=""><td>9.2.1.0</td><td></td><td>EACH</td><td>ignoro</td></maxno<>	9.2.1.0		EACH	ignoro
					EACH	ignore
Information Response >>>RL ID	N.4	ofRLs-1>	0.0.1.40			
	M	}	9.2.1.49		_	
>>>RL Set ID	M		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	0		9.2.2.37B		-	
>>>DL Code Information	М		FDD DL		YES	ignoro
>>>DL Code Information	IVI				TES	ignore
			Code			
			Information			
			9.2.2.14A			
>>>Diversity Indication	M		9.2.1.21		-	
>>>CHOICE Diversity Indication	Μ				-	
>>>>Combining					_	
>>>>RL ID	Μ		9.2.1.49	Reference RL ID for the combining	-	
>>>>DCH	0	1	9.2.1.16A	Ŭ	YES	ignore
Information Response >>>>Non Combining or						
First RL	М		9.2.1.16A			
>>>>DCH Information Response					_	
>>>SSDT Support Indicator	M		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 9.2.2.10 9.2.1.x		-	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
			<u>9.2.1.x</u>			
>>>DSCH Information Response	0		DSCH 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		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		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	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		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	М		FDD DL Code Information 9.2.2.14A		YES	ignore
>Diversity Indication	М		9.2.1.21		_	
>CHOICE Diversity Indication	M				_	
>>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	Μ		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 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	Μ		DL Power <u>9.2.2.10</u> <u>9.2.1.x</u>		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>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
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 reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
RL Information Response		01		Mandatory For 3.84Mcps TDD only	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	0		9.2.1.70A		_	
Position	Ŭ		0.2.1.101			
>UL Time Slot ISCP Info	М		9.2.3.13D		_	
>Minimum Uplink SIR	M		Uplink SIR		_	
			9.2.1.69			
>Maximum Uplink SIR	M		Uplink SIR		-	
			9.2.1.69			<u> </u>
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.2.10		-	
			<u>9.2.1.x</u>			
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
			<u>9.2.1.x</u>			
>Timing Advance Applied	М		9.2.3.12A		_	
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation	M		9.2.3.7E			
Configuration						
>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 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			
>>>UL Timeslot	M		9.2.3.13C			
Information			3.2.3.130			
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М	l	9.2.3.2	ľ	-	
>>DL DPCH		01			YES	ignore
Information			0.007			
>>>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	Μ		9.2.3.2C		_	
>DCH Information		01			_	
>>Diversity Indication	М		9.2.1.21		_	
>>CHOICE Diversity Indication	М				-	
					<u> </u>	
>>>Combining >>>>RL ID	М		9.2.1.49	Reference	-	
			0.04.404	RL	VEO	;
>>>DCH Information	0		9.2.1.16A		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response			Telefence			
>>>Non Combining					_	
>>>DCH	М		9.2.1.16A		_	
Information	101		5.2.1.10/			
Response						
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof< td=""><td></td><td></td><td>0202/12</td><td>ignore</td></maxnoof<>			0202/12	ignore
		DSCHs>				
>>DSCH ID	М	200110	9.2.1.26A		_	
>>Transport Format	M		9.2.3.13		_	
Management			0.2.0.10			
>>DSCH Flow Control	М		9.2.1.26B		_	
Information			0.2.1.200			
>>CHOICE Diversity	0				_	
Indication	Ŭ					
>>Non Combining					_	
>>>>Binding ID	0	+	9.2.1.3			
>>>>Transport	0	}	9.2.1.5	+		
Layer Address			3.2.1.02		_	
>USCH Information		0			GLOBAL	ignore
Response		0 <maxnoof< td=""><td></td><td></td><td>GLUDAL</td><td>ignore</td></maxnoof<>			GLUDAL	ignore
Nesponse		<inaxnoof USCHs></inaxnoof 				
>>USCH ID	M	03088>	02244			
>>USCH ID >>Transport Format	M		9.2.3.14 9.2.3.13		_	
	IVI		9.2.3.13		-	
Management	0					
>>CHOICE Diversity	0				-	
Indication	-			-		
>>>Non Combining					-	
>>>Binding ID	0		9.2.1.3		_	
>>>>Transport	0		9.2.1.62		-	
Layer Address						
>Neighbouring UMTS Cell	0		9.2.1.41A		-	
Information						
>Neighbouring GSM Cell	0		9.2.1.41C		YES	ignore
Information	_		_			-
>Cell GA Additional	0		9.2.1.5B		YES	ignore
Shapes						
RL Information Response		01		Mandatory	YES	ignore
LCR				For		
				1.28Mcps		
				TDD only		
>RL ID	M	-	9.2.1.49		_	
>URA Information	M		9.2.1.70B		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A	ļ	_	
>UTRAN Access Point	0		9.2.1.70A		-	
Position						
>UL Time Slot ISCP Info	Μ		9.2.3.13H		-	
LCR						
>Minimum Uplink SIR	М		Uplink SIR		-	
			9.2.1.69			
>Maximum Uplink SIR	Μ		Uplink SIR		-	
		ļ	9.2.1.69			
>Maximum Allowed UL Tx	М		9.2.1.35		-	
Power			<u> </u>		<u> </u>	
>Maximum DL TX Power	М		DL Power		-	
			9.2.2.10			
			<u>9.2.1.x</u>		<u> </u>	
>Minimum DL TX Power	М		DL Power			
			9.2.2.10			
			<u>9.2.1.x</u>			
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>UL CCTrCH Information	T	0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
LCR		0<1110.001		101 0011	OLODAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		R>	Telefence			
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01	0.2.0.2		YES	ignore
Information LCR		07			120	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot	M		9.2.3.13G		_	
Information LCR						
>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				5
		<i>R</i> >				
>>CCTrCH ID	М		9.2.3.2		-	
>>DL DPCH		01			YES	ignore
Information LCR						
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		-	
>>>TDD DPCH Offset	M		9.2.3.8A	ļ	_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		-	
>>>TSTD Indicator	М	1	9.2.3.13E	ł	_	
>DCH Information		01	0.2.0.102	ł	YES	ignore
>>Diversity Indication	М		9.2.2.7	ł	-	ignoro
>>CHOICE Diversity	M		0.2.2.1		_	
Indication						
>>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference	_	
			0.2.1.10	RL		
>>>Non Combining					_	
>>>DCH	М		9.2.1.16A		_	
Information	101		5.2.1.10/			
Response						
>DSCH Information Response LCR		0 <maxnoof DSCHsLCR ></maxnoof 			GLOBAL	ignore
>>DSCH ID	М	-	9.2.1.26A		_	
>>Transport Format	M		9.2.3.13		_	
Management	IVI		9.2.3.13		_	
>>DSCH Flow Control Information	М		9.2.1.26B		-	
>>CHOICE Diversity	0	ł	1	ł	_	
Indication	-					
>>>Non Combining		1	1	1	_	
>>>Binding ID	0	1	9.2.1.3	1	_	
>>>>Transport	0	1	9.2.1.62	1	_	
Layer Address	-					
>USCH Information		0			GLOBAL	ignore
SUSCH Information Response LCR		<maxnoof USCHsLCR</maxnoof 				
Response LCR	NA		02244			
>>USCH ID	M	USCHsLCR	9.2.3.14			
Response LCR >>USCH ID >>Transport Format Management	М	USCHsLCR	9.2.3.14 9.2.3.13			
Response LCR >>USCH ID >>Transport Format Management >>CHOICE Diversity Indication		USCHsLCR				
Response LCR >>USCH ID >>Transport Format Management >>CHOICE Diversity Indication >>Non Combining	М	USCHsLCR	9.2.3.13			
Response LCR >>USCH ID >>Transport Format Management >>CHOICE Diversity Indication	M 0 0	USCHsLCR				
Response LCR >>USCH ID >>Transport Format Management >>CHOICE Diversity Indication >>>Non Combining >>>BindingID >>>Transport	M O	USCHsLCR	9.2.3.13		1	
Response LCR >>USCH ID >>Transport Format Management >>CHOICE Diversity Indication >>>Non Combining >>>BindingID	M 0 0	USCHsLCR	9.2.3.13		1	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Criticality Diagnostics	0		9.2.1.13		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	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
CHOICE Cause Level	M		0.2.11.00		YES	ignore
>General					-	ignore
>>Cause	М		9.2.1.5		_	
>RL Specific			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	1	9.2.1.70B		_	
>>>SAI	M	ł	9.2.1.52		_	
>>>Cell GAI	0	ł	9.2.1.5A		_	
>>>UTRAN Access	0	1	9.2.1.70A			
Point Position	Ĭ		0.2.1.10/1			
>>>Received Total	М		9.2.2.35A		_	
Wide Band Power						
>>>Secondary CCPCH Info	0		9.2.2.37B		-	
>>>DL Code	М		FDD DL		YES	ignore
Information			Code			_
			Information			
			9.2.2.14A			
>>>Diversity Indication	Μ		9.2.1.21		_	
>>>CHOICE Diversity	Μ				-	
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	_	
>>>>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>>>>Non Combining					_	
>>>>DCH	М	l l	9.2.1.16A		-	
Information Response						
>>>SSDT Support	М		9.2.2.43			
Indicator			0.2.2.70			
>>>Minimum Uplink	М	ł	Uplink SIR		L _	
SIR			9.2.1.69			
>>>Maximum Uplink	М	1	Uplink SIR		<u> </u>	
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		_	
Power			9.2.2.10			
Minimum DL TV	M		<u>9.2.1.x</u>			
>>>Minimum DL TX	Μ		DL Power		-	
Power			9.2.2.10			
>>>Neighbouring	0		<u>9.2.1.x</u> 9.2.1.41A			
		1	9.2.1.41A	1	I –	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		YES	ignore
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.1.12 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	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 9.2.2.10 9.2.1.x		_	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		-	
>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
>DSCHs to be Added or Modified	0		DSCH FDD Information Response 9.2.2.13B		YES	ignore
Criticality Diagnostics	0		9.2.1.13		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		01			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 9.2.2.10 9.2.1.x		-	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		-	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	M	1	9.2.3.2		-	
>>UL DPCH to be Added		01		For 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 Added LCR		01		For 1.28Mcps 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		-	
>>>UL Timeslot Information LCR	М		9.2.3.13G		_	
>>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 to <maxnooft S></maxnooft 		For 3.84Mcps TDD only	_	
>>>>Time Slot	Μ		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 to <maxnoofd PCH></maxnoofd 			-	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation	0		9.2.3.8		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Code			Reference			
>>>UL Timeslot Information LCR		0 to <maxnooft SLCR></maxnooft 		For 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 Information LCR		0 to <maxnoofd PCHLCR></maxnoofd 			GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		-	
>>>>TDD Channelisation Code LCR	0		9.2.3.8a		_	
>>UL DPCH to be Deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3		-	
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		-	
>>DL DPCH to be Added		01		For 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	Μ		9.2.3.7		-	
>>>Repetition Length	Μ		9.2.3.6		-	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>>DL Timeslot Information	М		9.2.3.2C		_	
>>DL DPCH to be Added LCR		01		For 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		_	
>>DL 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		-	
>>>DL Timeslot Information		0 to <maxnooft S></maxnooft 		For 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		-	
>>>>DL Code Information		0 to <maxnoofd PCH></maxnoofd 			-	
>>>>DPCH ID	М		9.2.3.3			
>>>>TDD Channelisation Code	0		9.2.3.8		_	
>>>DL Timeslot Information LCR		0 to <maxnooft SLCR></maxnooft 		For 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	М		9.2.3.12a	,	_	l

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Midamble Shift LCR	0		9.2.3.4C		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>DL Code Information LCR		0 to <maxnoofd PCHLCR></maxnoofd 			GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		—	
>>>>>TDD Channelisation Code LCR	0		9.2.3.8a		_	
>>DL DPCH to be Deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3		-	
>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		9.2.1.26A		_	
>>Transport Format Management	М		9.2.3.13		_	
>>DSCH Flow Control Information	М		9.2.1.26B		-	
>>Binding ID	0		9.2.1.3		-	
>>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		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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.
MaxnoofDPCH	Maximum number of DPCH for a UE for 3.84Mcps TDD
MaxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD
MaxnoofDPCHLCR	Maximum number of DPCH for a UE for 1.28Mcps TDD

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

9.1.17.1 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	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 9.2.2.10 9.2.1.x		-	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		-	
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.1.17.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М	1	9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information Response		01			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 9.2.2.10 9.2.1.x		-	
>Minimum DL TX Power	0		DL Power 9.2.2.10 9.2.1.x		-	
>DCH Information Response	0		9.2.1.16A		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
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	Ŭ
Power Adjustment Type	Μ		9.2.2.28		YES	ignore
DL Reference Power	C- Common		DL Power 9.2.2.10 9.2.1.x		YES	ignore
Inner Loop DL PC Status	0		9.2.2.21a		YES	ignore
DL Reference Power Information	C- Individual	1 <maxnoo fRLs></maxnoo 			GLOBAL	ignore
>RL ID	М		9.2.1.49		_	
>DL Reference Power	M		DL Power 9.2.2.10 9.2.1.x		-	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.23		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.B		YES	ignore
Adjustment Ratio	C- CommonO rIndividual		9.2.2.C		YES	ignore

9.1.20 DL POWER CONTROL REQUEST [FDD]

Condition	Explanation
Common	This IE shall be present only if the Power Adjustment Type IE is set
	to 'Common'.
Individual	This IE shall be present only if the Power Adjustment Type IE is set
	to 'Individual'.
CommonOrIndividual	This IE shall be present only if the Power Adjustment Type IE is set
	to 'Common' or 'Individual'.

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

9.2.1.x DL Power

<u>The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - PCCPCH power]</u> configured in a cell [FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols].

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

/* partly omitted */

9.2.2.10 DL Power

The DL Power IE indicates the power level of the DPDCH symbols, expressed as a relative value with respect to the CPICH power.

	IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Po	wer			ENUMERAT ED (- 35+15dB)	Step 0.1dB

<u>void</u>

	CHANGE REQUEST	CR-Form-v3
[#] 25.42	3 CR 394 ^{# rev} 1 [#]	Current version: 3.5.0 [#]
For <u>HELP</u> on using	g this form, see bottom of this page or look at the	pop-up text over the X symbols.
Proposed change affe	ects: # (U)SIM ME/UE Radio Acc	cess Network X Core Network
Title: % R	NSAP general corrections	
Source: ೫ R	-WG3	
Work item code: ೫ <mark>⊤</mark>	El	Date: ೫ May 2001
Category: ೫ F		Release: # R99
De	 <u>one</u> of the following categories: <i>F</i> (essential correction) <i>A</i> (corresponds to a correction in an earlier release, <i>B</i> (Addition of feature), <i>C</i> (Functional modification of feature) <i>D</i> (Editorial modification) tailed explanations of the above categories can found in 3GPP TR 21.900. 	Use <u>one</u> of the following releases: 2 (GSM Phase 2)) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
Reason for change:	[#] There are some inconsistencies between RI	
	corresponding text. In 8.3.4.2, the Synchronised Radio Link Rec the RADIO LINK RECONFIGURATION READ the paragraph, this is applied to the RADIO LIN RESPONSE message of Unsynchronised Rad	configuration Preparation procedure, Y message should be used. But in NK RECONFIGURATION
	In 8.3.5.1 and 8.3.6.1, there are the Synchron procedures. Namely, "Reconfiguration" is miss 8.3.4.3, 8.3.5.2 and 8.3.8.1. The Synchronised procedure is used with the Synchronised Radio procedure confusingly.	sing. And there is also missing in Radio Link Reconfiguration
	In 8.3.7.2, the two messages, RADIO LINK I and RADIO LINK RECONFIGURATION RESP erroneous usage of the RADIO LINK RECONF Synchronised Radio Link Reconfiguration Prep RADIO LINK RECONFIGURATION REQUES	PONSE are used. But there is an FIGURATION PREPARE of the paration. It must be changed to the
Summary of change: 8	It is proposed to change the message in sect "RADIO LINK RECONFIGURATION RESPO to the RADIO LINK RECONFIGURATION RE	NSE message should be changed
	It is proposed to change the procedure in se 8.3.6.1, and 8.3.8.1 ;	ection 8.3.4.3, 8.3.5.1, 8.3.5.2,
	"Synchronised Radio Link Preparation proce	edure (8.3.5.1 and 8.3.6.1) and the

		Synchronised Radio Link Reconfiguration (8.3.4.3, 8.3.5.2 and 8.3.8.1) procedur should be changed to the Synchronised Radio Link Reconfiguration Preparation procedure"		
		It is proposed to change the message in section 8.3.7.2 : "RADIO LINK RECONFIGURATION PREPARE message the RADIO LINK RECONFIGURATION REQUEST message		
Consequences if	ж		e name, system	
not approved:		element and text remain.		
		Backward compatibility:		
		This CR is backward compatible with the previous version	of RNSAP.	
k				
Clauses affected:	ж	8.3.4.2, 8.3.4.3, 8.3.5.1, 3.8.5.2, 8.3.6.1, 8.3.7.2, 8.3.8.1		
Other specs	ж	X Other core specifications # 25.423 V4.0.0, CR39	5R1	
affected:		Test specifications		
		O&M Specifications		
Other comments:	ж			

How to create CRs using this form:

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

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

8.3.4 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 all Radio Links 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 reception, 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 then 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.

3GPP TS 25.423 v3.5.0 (2001-03)

- If the *DCH Specific Info* IE 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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.
- [FDD If, in the DCH Specific Info IE, the DRAC Control IE is present and set to "requested" 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 where the DRAC information is sent, for each Radio Link established in a cell where 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 *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE 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 a *DCHs to Add* IE with 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 it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- [FDD 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. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.

- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [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 where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

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 then 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 set the UL inner loop power control to the UL SIR target 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.]

CR page 6

- [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 then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes *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 as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message 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 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 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. 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 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 to 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 *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

 [TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of *Midamble Shift and Burst Type* IE, *Time Slot* IE, *TFCI Presence* IE or Code information was modified. The DRNC shall include code information if *TDD Channelisation Code* IE was modified.]

[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 DRNS has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message. If no DPCH was active before the reconfiguration, 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 – 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.]

SSDT Activation/Deactivation:

- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", 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, 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.]

DSCH Addition/Modification/Deletion:

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

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.

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Modify* IE, then the DRNS shall treat them each as follows:

- [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 DNRS shall use them to

CR page 8

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 to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [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 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.]

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] USCH Addition/Modification/Deletion

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.

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.

If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH to Modify IE, then the DRNS shall treat them each as follows:

- 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.
- 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 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.]

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.

General

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In 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 only for one of the combined Radio Links.

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. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the <u>RADIO LINK</u> <u>RECONFIGURATION READY</u> <u>RADIO LINK RECONFIGURATION RESPONSE</u>-message.

8.3.4.3 Unsuccessful Operation

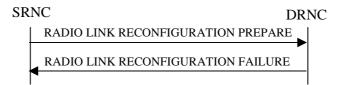


Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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 regard the <u>Synchronised Radio Link Reconfiguration Preparation</u> Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested <u>Synchronised Radio Link Reconfiguration Preparation</u> <u>Synchronised Radio Link</u> <u>Reconfiguration</u>-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.

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

3GPP TS 25.423 v3.5.0 (2001-03)

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;
- Invalid CM Settings;
- 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.

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 regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

8.3.5 Synchronised Radio Link Reconfiguration Commit

8.3.5.1 General

This procedure is used to order the DRNS to switch to the new configuration for the Radio Link(s) within the DRNS, previously prepared by the <u>Synchronised Radio Link Reconfiguration Preparation</u> Synchronised Radio Link Preparation procedure.

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

8.3.5.2 Successful Operation





Figure 12: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The DRNS shall switch to the new configuration previously prepared by the Synchronised Radio Link Reconfiguration Preparation Synchronised RL Reconfiguration procedure at the next coming CFN with a value equal to the value requested by the SRNC in the CFN IE when receiving the RADIO LINK **RECONFIGURATION COMMIT message from the SRNC.**

[FDD – If the Active Pattern Sequence Information IE is included in the RADIO LINK RECONFIGURATION COMMIT message, the CM Configuration Change CFN IE in the Active Pattern Sequence Information IE shall be ignored by the DRNS.]

When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1

In the case of a transport channel modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the indicated CFN.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the Active Pattern Sequence Information IE, the DRNS shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CFN IE. From that moment on all Transmission Gap Pattern Sequences included in Transmission Gap Pattern Sequence Status IE repetitions shall be started when the indicated TGCFN IE elapses. The CFN IE and TGCFN IE for each sequence refer to the next coming CFN with that value. If the values of the CFN IE and the TGCFN IE are equal, the concerning Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the CFN IE.]

8.3.5.3 Abnormal Conditions

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

8.3.6 Synchronised Radio Link Reconfiguration Cancellation

8.3.6.1 General

This procedure is used to order the DRNS to release the new configuration for the Radio Link(s) within the DRNS, previously prepared by the Synchronised Radio Link Reconfiguration Preparation Synchronised Radio Link Preparation procedure.

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

8.3.6.2 Successful Operation



Figure 13: Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

The DRNS shall release the new configuration ([FDD – including the new Transmission Gap Pattern Sequence parameters (if existing)]) previously prepared by the Synchronised RL Reconfiguration Preparation procedure and continue using the old configuration when receiving the RADIO LINK RECONFIGURATION CANCEL message from the SRNC. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

8.3.6.3 Abnormal Conditions

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

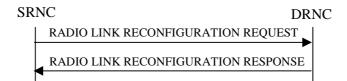


Figure 14: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

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

Upon reception, 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.

3GPP TS 25.423 v3.5.0 (2001-03)

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 *DCH Specific Info* IE includes on 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 *DCH Specific Info* IE includes on 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 *DCH Specific Info* IE 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.
- [FDD If the *DRAC Control* IE is present and set to "requested" in *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 RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]

DCH Addition:

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

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

- If the *DCHs to Add* IE includes multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if all of them can be in the new configuration.
- [FDD For 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. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- 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. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [FDD If the *DRAC Control* IE is set to "requested" in *DCH Specific Info* IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH to delete* IE, 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 <u>RADIO LINK RECONFIGURATION REQUEST</u> <u>RADIO LINK RECONFIGURATION</u> <u>PREPARE</u>-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 <u>RADIO LINK RECONFIGURATION REQUEST</u> <u>RADIO LINK RECONFIGURATION</u> <u>PREPARE</u>-message includes a *DL DPCH Information* IE, then the DRNS shall apply the parameters to the new configuration as follows:]

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

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

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

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information to modify* IEs or */DL CCTrCH Information to modify* IEs and it includes *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value to the referenced CCTrCH.]

[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 remove the referenced CCTrCH in the new configuration.]

General:

The DRNS shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

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

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.

CR page 16

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNC shall return this in the IEs *Maximum Uplink SIR* and *Minimum Uplink SIR* for each Radio Link in the RADIO LINK RECONFIGURATION RESPONSE message.

If the DL TX power upper or lower limit has been re-configured, the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

8.3.8 Physical Channel Reconfiguration

8.3.8.1 General

The Physical Channel Reconfiguration procedure is used by the DRNC to request to SRNC the reconfiguration of one of its physical channels.

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

The Physical Channel Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists as defined in subclause 3.1, or if a <u>Synchronised Radio Link Reconfiguration Preparation Synchronised</u> <u>Radio Link Reconfiguration procedure</u>, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing.

8.3.8.2 Successful Operation

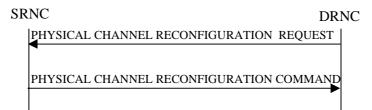


Figure 16: Physical Channel Reconfiguration procedure, Successful Operation

When the DRNC detects the need to modify one of its physical channels, it shall send a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

The message contains the new value of the physical channel parameter(s) that shall be reconfigured and in which radio link.

[FDD- If compressed mode is prepared or active and at least one of the downlink compressed mode methods is 'SF/2', the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message indicating for each DL Channelisation Code whether the alternative scrambling code will be used or not if the downlink compressed mode methods 'SF/2' is activated.]

[TDD – The SRNC shall apply the new values for any of *TDD Channelisation Code* IE, *Midamble shift* and Burst Type IE, Time Slot IE, TDD Physical Channel Offset IE, Repetition Period IE, Repetition Length IE, or *TFCI presence* IE included in the *UL DPCH Information* IE given in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the old values specified for this DPCH shall still apply.]

[TDD – The SRNC shall apply the new values for any of *TDD Channelisation Code* IE, *Midamble shift and Burst Type* IE, *Time Slot* IE, *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE included in the *DL DPCH Information* IE given in the PHYSICAL CHANNEL

3GPP TS 25.423 v3.5.0 (2001-03)

CR page 17

RECONFIGURATION REQUEST message, otherwise the old values specified for this DPCH shall still apply.]

Upon reception of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC shall decide an appropriate execution time for the change. The SRNC shall respond with a PHYSICAL CHANNEL RECONFIGURATION COMMAND message to the DRNC that includes the *CFN* IE indicating the execution time.

At the CFN, the DRNS shall switch to the new configuration that has been requested, and release the resources related to the old physical channel configuration.

CHANGE REQUEST			
[#] 25.423	CR 395 ^{# rev}	1 * Current version: 4.0.0 *	
For <u>HELP</u> on using	this form, see bottom of this page o	r look at the pop-up text over the $#$ symbols.	
Proposed change affect	cts: # (U)SIM ME/UE	Radio Access Network X Core Network	
Title: ೫ RN	ISAP general corrections		
Source: # R-	WG3		
Work item code: ೫ <mark>⊤</mark> Е	:I	Date: ೫ May 2001	
Category: ೫ A		Release: ೫ <u>REL-4</u>	
Deta	 <u>one</u> of the following categories: <i>F</i> (essential correction) <i>A</i> (corresponds to a correction in an ease (addition of feature), <i>C</i> (Functional modification of feature) <i>D</i> (Editorial modification) ailed explanations of the above categories ound in 3GPP TR 21.900. 	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999)	
Reason for change: ೫	-		
	corresponding text. In 8.3.4.2, the Synchronised Rac the RADIO LINK RECONFIGURAT the paragraph, this is applied to the RESPONSE message of Unsynchronic In 8.3.5.1 and 8.3.6.1, there are procedures. Namely, "Reconfigurat 8.3.4.3, 8.3.5.2 and 8.3.8.1. The Sy	between RNSAP procedures and dio Link Reconfiguration Preparation procedure, FION READY message should be used. But in a RADIO LINK RECONFIGURATION ronised Radio Link Reconfiguration procedure. the Synchronised Radio Link Preparation tion" is missing. And there is also missing in ynchronised Radio Link Reconfiguration	
	procedure confusingly. In 8.3.7.2, the two messages, RA and RADIO LINK RECONFIGURA erroneous usage of the RADIO LIN Synchronised Radio Link Reconfig RADIO LINK RECONFIGURATION In 8.5.9.2, Information Exchange	Failure procedure is used between RNC ₁ and ct the Figure 30J. CRNC needs to be replaced	
Summary of change: ೫	"RADIO LINK RECONFIGURATIO	sage in section 8.3.4.2 : ON RESPONSE message should be changed RATION READY message in page 46."	

	It is proposed to change the procedure in section 8.3.4.3, 8.3.5.1, 8.3.5.2, 8.3.6.1, and 8.3.8.1;		
	"Synchronised Radio Link Preparation procedure (8.3.5.1 and 8.3.6.1) and the Synchronised Radio Link Reconfiguration (8.3.4.3, 8.3.5.2 and 8.3.8.1) procedure should be changed to the Synchronised Radio Link Reconfiguration Preparation procedure"		
	It is proposed to change the message in section 8.3.7.2 : "RADIO LINK RECONFIGURATION PREPARE message should be changed to the RADIO LINK RECONFIGURATION REQUEST message in page 52."		
	It is proposed to change the CRNC and Node B with RNC_1 and RNC_2 in section 8.5.9.2		
Consequences if # not approved:	The inconsistencies among the procedure name, message name, system element and text remain.		
	Backward compatibility:		
	This CR is backward compatible with the previous version of RNSAP.		
Clauses affected: #	8.3.4.2, 8.3.4.3, 8.3.5.1, 8.3.5.2, 8.3.6.1, 8.3.7.2, 8.3.8.1, 8.5.9.2		
Other specs #	X Other core specifications # 25.423 V3.5.0, CR394R1		
affected:	Test specifications		
	O&M Specifications		
Other comments: #			

How to create CRs using this form:

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

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

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 all Radio Links 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 reception, 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 then 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.

3GPP TS 25.423 v4.0.0 (2001-03)

- If the *DCH Specific Info* IE 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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.
- [FDD If, in the DCH Specific Info IE, the DRAC Control IE is present and set to "requested" 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 where the DRAC information is sent, for each Radio Link established in a cell where 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 *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]
- 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 in the uplink of the DCH at any point in time after activating the new configuration.
- 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.

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE 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 a *DCHs to Add* IE with 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 it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

3GPP TS 25.423 v4.0.0 (2001-03)

- [FDD 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. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [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 where the DRAC information is sent, for each Radio Link supported by a cell where 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 *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. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the uplink of this 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. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the downlink of this.

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 then 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 set the UL inner loop power control to the UL SIR target 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 then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes *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 as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message 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 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 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. 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 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 to 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 *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

 [TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of [3.84Mcps TDD - Midamble Shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD - Midamble Shift LCR IE, Time Slot LCR IE], TFCI Presence IE or Code information was modified. The DRNC shall include code information if [3.84Mcps TDD - TDD Channelisation Code IE] and/or [1.28Mcps TDD - TDD Channelisation Code LCR IE] was modified.]

[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 DRNS has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message. [3.84Mcps TDD - If no DPCH was active before the reconfiguration, 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 – 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.]

SSDT Activation/Deactivation:

- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", 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, in the new configuration. If the *RL Information* IE includes both *SSDT Cell Identity* IE and *SSDT Cell Identity for EDSCHPC* IE, then DRNS shall ignore the *SSDT Cell Identity for EDSCHPC* IE.]
- [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.]

DSCH Addition/Modification/Deletion:

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

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.

[FDD - If the *DSCHs to Add* IE includes the *Enhanced DSCH PC* IE, the DRNS shall activate enhanced DSCH power control, 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.]

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Modify* IE, then the DRNS shall treat them each as follows:

- [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 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.]
 - [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 to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [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 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 *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, 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 *DSCHs to Add* IE includes *Enhanced DSCH PC* IE and *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 *DSCHs to Add* IE and *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 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] USCH Addition/Modification/Deletion

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.

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.

If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH to Modify IE, then the DRNS shall treat them each as follows:

3GPP TS 25.423 v4.0.0 (2001-03)

- 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.
- 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 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.]

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.

General

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In 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 only for one of the combined Radio Links.

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

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. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured, the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the <u>RADIO LINK</u> <u>RECONFIGURATION READY</u> <u>RADIO LINK RECONFIGURATION RESPONSE</u> message.

8.3.4.3 Unsuccessful Operation

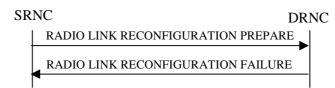


Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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 regard the <u>Synchronised Radio Link Reconfiguration Preparation</u> Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested <u>Synchronised Radio Link Reconfiguration Preparation</u> <u>Synchronised Radio Link</u> <u>Reconfiguration</u>-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.

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

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;
- Invalid CM Settings;
- 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.

Miscellaneous Causes:

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

8.3.5 Synchronised Radio Link Reconfiguration Commit

8.3.5.1 General

This procedure is used to order the DRNS to switch to the new configuration for the Radio Link(s) within the DRNS, previously prepared by the <u>Synchronised Radio Link Reconfiguration Preparation Synchronised Radio Link Preparation procedure</u>.

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

8.3.5.2 Successful Operation



Figure 12: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The DRNS shall switch to the new configuration previously prepared by the <u>Synchronised Radio Link</u> <u>Reconfiguration Preparation Synchronised RL Reconfiguration procedure at the next coming CFN with a</u> value equal to the value requested by the SRNC in the *CFN* IE when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC.

[FDD – If the Active Pattern Sequence Information IE is included in the RADIO LINK RECONFIGURATION COMMIT message, the *CM Configuration Change CFN* IE in the Active Pattern Sequence Information IE shall be ignored by the DRNS.]

When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1

In the case of a transport channel modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the indicated CFN.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the DRNS shall deactivate all the ongoing Transmission Gap Pattern Sequences at the *CFN* IE. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions shall be started when the indicated *TGCFN* IE elapses. The *CFN* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value. If the values of the *CFN* IE and the *TGCFN* IE are equal, the concerning Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CFN* IE.]

8.3.5.3 Abnormal Conditions

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

8.3.6 Synchronised Radio Link Reconfiguration Cancellation

8.3.6.1 General

This procedure is used to order the DRNS to release the new configuration for the Radio Link(s) within the DRNS, previously prepared by the <u>Synchronised Radio Link Reconfiguration Preparation</u> Synchronised Radio Link Preparation procedure.

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

8.3.6.2 Successful Operation



Figure 13: Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

The DRNS shall release the new configuration ([FDD – including the new Transmission Gap Pattern Sequence parameters (if existing)]) previously prepared by the Synchronised RL Reconfiguration Preparation procedure and continue using the old configuration when receiving the RADIO LINK RECONFIGURATION CANCEL message from the SRNC. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

8.3.6.3 Abnormal Conditions

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 reception, 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 *DCH Specific Info* IE includes on 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 *DCH Specific Info* IE includes on 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 *DCH Specific Info* IE 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.
- [FDD If the *DRAC Control* IE is present and set to "requested" in *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 RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]

3GPP TS 25.423 v4.0.0 (2001-03)

- 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 in the uplink of the DCH at any point in time after activating the new configuration.
- 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.

DCH Addition:

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

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCHs to Add* IE includes multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if all of them can be in the new configuration.
- [FDD For 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. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- 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. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [FDD If the *DRAC Control* IE is set to "requested" in *DCH Specific Info* IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where 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. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the uplink of this 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. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE the DRNS shall regard the maximum rate as the guaranteed rate in the downlink of this DCH.

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH to delete* IE, 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 <u>RADIO LINK RECONFIGURATION REQUEST</u> <u>RADIO LINK RECONFIGURATION</u> <u>PREPARE</u>-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 <u>RADIO LINK RECONFIGURATION REQUEST</u> <u>RADIO LINK RECONFIGURATION</u> <u>PREPARE</u>-message includes a *DL DPCH Information* IE, then the DRNS shall apply the parameters to the new configuration as follows:]

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

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration This new Compressed Mode

Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

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

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information to modify* IEs or */DL CCTrCH Information to modify* IEs and it includes *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value to the referenced CCTrCH.]

[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 remove the referenced CCTrCH in the new configuration.]

General:

The DRNS shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

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

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION RESPONSE message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION RESPONSE message for this Radio Link.

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.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNC shall return this in the IEs *Maximum Uplink SIR* and *Minimum Uplink SIR* for each Radio Link in the RADIO LINK RECONFIGURATION RESPONSE message.

If the DL TX power upper or lower limit has been re-configured, the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

8.3.8 Physical Channel Reconfiguration

8.3.8.1 General

The Physical Channel Reconfiguration procedure is used by the DRNC to request to SRNC the reconfiguration of one of its physical channels.

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

The Physical Channel Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists as defined in subclause 3.1, or if a <u>Synchronised Radio Link Reconfiguration Preparation</u> Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing.

8.3.8.2 Successful Operation

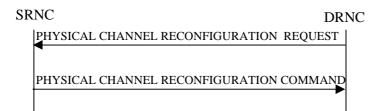


Figure 16: Physical Channel Reconfiguration procedure, Successful Operation

When the DRNC detects the need to modify one of its physical channels, it shall send a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

The message contains the new value of the physical channel parameter(s) that shall be reconfigured and in which radio link.

[FDD- If compressed mode is prepared or active and at least one of the downlink compressed mode methods is 'SF/2', the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message indicating for each DL Channelisation Code whether the alternative scrambling code will be used or not if the downlink compressed mode methods 'SF/2' is activated.]

[TDD – The SRNC shall apply the new values for any of [3.84Mcps TDD - *TDD Channelisation Code* IE, *Midamble shift and Burst Type* IE, *Time Slot* IE], [1.28Mcps TDD - *TDD Channelisation Code LCR* IE, *Midamble shift LCR* IE, *Time Slot LCR* IE], *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE included in the *UL DPCH Information* IE given in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the old values specified for this DPCH shall still apply.]

[TDD – The SRNC shall apply the new values for any of *TDD Channelisation Code* IE, *Midamble shift* and Burst Type IE, Time Slot IE, TDD Physical Channel Offset IE, Repetition Period IE, Repetition Length IE, or *TFCI presence* IE included in the *DL DPCH Information* IE given in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the old values specified for this DPCH shall still apply.]

Upon reception of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC shall decide an appropriate execution time for the change. The SRNC shall respond with a PHYSICAL CHANNEL RECONFIGURATION COMMAND message to the DRNC that includes the *CFN* IE indicating the execution time.

3GPP TS 25.423 v4.0.0 (2001-03)

At the CFN, the DRNS shall switch to the new configuration that has been requested, and release the resources related to the old physical channel configuration.

8.3.8.3 Unsuccessful Operation

SRNC

DRNC

PHYSICAL CHANNEL RECONFIGURATION REQUEST

Figure 17: Physical Channel Reconfiguration procedure, Unsuccessful Operation

If the SRNC can not accept the reconfiguration request it shall send the PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC, including the cause for the failure.

Typical cause values are:

Radio Network Layer Causes:

- Reconfiguration not Allowed.

8.3.8.4 Abnormal Conditions

If the DRNC receives any of the RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST, or RADIO LINK DELETION REQUEST messages while waiting for the PHYSICAL CHANNEL RECONFIGURATION COMMAND message, this shall be regarded as a Physical Channel Reconfiguration failure. These messages thus override the DRNC request for physical channel reconfiguration.

When the SRNC receives a PHYSICAL CHANNEL RECONFIGURATION REQUEST message while a Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing, it shall assume that receival of any of the messages RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST or RADIO LINK DELETION REQUEST by the DRNC has terminated the Physical Channel Reconfiguration procedure. No separate response message for the Physical Channel Reconfiguration procedure shall be returned by the SRNC in this situation.

8.5.9 Information Exchange Failure

8.5.9.1 General

This procedure is used by a RNC to notify another that the information exchange it previously requested using the Information Exchange Initiation can no longer be reported.

This procedure uses the signalling bearer connection for the relevant Information Exchange Context.

3GPP TS 25.423 v4.0.0 (2001-03)

8.5.9.2 Successful Operation

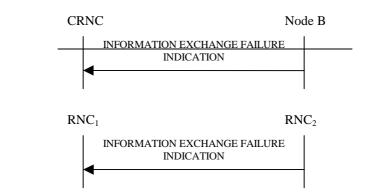


Figure 30J: Information Exchange Failure procedure, Successful Operation

This procedure is initiated with a INFORMATION EXCHANGE FAILURE INDICATION message, sent from the RNC_2 to the RNC_1 , to inform the RNC_1 that information previously requested by the Information Exchange Initiation procedure can no longer be reported. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

Information temporarily not available.