TSG-RAN Meeting #14 Kyoto, Japan, 11 - 14, December, 2001

Title: Agreed CRs to TS 25.433

Source: TSG-RAN WG3

Agenda item: 8.3.3/8.3.4/9.4.3

RP Tdoc	R3 Tdoc	Spec	CR_Nun	n Rev	Release	CR_Subject	Cat	Cur_Ver	New_Ver	Workitem
RP-010863	R3-013449	25.433	576		R99	Clarification of the Transaction ID	F	3.7.0	3.8.0	TEI
RP-010863	R3-013341	25.433	565		Rel-4	Clarification for the Power Adjustment Type IE in the DL POWER	A	4.2.1	4.3.0	TEI
RP-010863	R3-013537	25.433	566	1	R99	Forward Compatibility for DL Power Balancing	F	3.7.0	3.8.0	TEI
RP-010863	R3-013539	25.433	567	1	Rel-4	Forward Compatibility for DL Power Balancing	A	4.2.1	4.3.0	TEI
RP-010863	R3-013356	25.433	568		R99	Reconfiguration clarification	F	3.7.0	3.8.0	TEI
RP-010863	R3-013357	25.433	569		Rel-4	Reconfiguration clarification	A	4.2.1	4.3.0	TEI
RP-010863	R3-013652	25.433	571	2	Rel-4	Addition of amendment to clarify the PER encoding of bitstrings	A	4.2.1	4.3.0	TEI
RP-010863	R3-013340	25.433	564		R99	Clarification for the Power Adjustment Type IE in the DL POWER	F	3.7.0	3.8.0	TEI
RP-010863	R3-013663	25.433	575	2	Rel-4	Transport Bearer replacement clarification for the DSCH case	A	4.2.1	4.3.0	TEI
RP-010863	R3-013650	25.433	570	2	R99	Addition of amendment to clarify the PER encoding of bitstrings	F	3.7.0	3.8.0	TEI
RP-010863	R3-013451	25.433	577		Rel-4	Clarification of the Transaction ID	A	4.2.1	4.3.0	TEI
RP-010863	R3-013584	25.433	578	1	R99	CPCH-related corrections	F	3.7.0	3.8.0	TEI
RP-010863	R3-013585	25.433	579	1	Rel-4	CPCH-related corrections	A	4.2.1	4.3.0	TEI
RP-010863	R3-013590	25.433	581		R99	Correction of S field length	F	3.7.0	4.3.0	TEI
RP-010863	R3-013591	25.433	582		Rel-4	Correction of S field length	A	4.2.1	4.3.0	TEI
RP-010863	R3-013662	25.433	574	2	R99	Transport Bearer replacement clarification for the DSCH case	F	3.7.0	3.8.0	TEI
RP-010863	R3-013298	25.433	561		R99	Procedure Code Criticality in Error Indication	F	3.7.0	3.8.0	TEI
RP-010863	R3-013604	25.433	560	1	Rel-4	Rel-4 specific terminology corrections	F	4.2.1	4.3.0	TEI
RP-010863	R3-013299	25.433	562		Rel-4	Procedure Code Criticality in Error Indication	A	4.2.1	4.3.0	TEI

	CHANGE REQUEST													
ж	25.	433	CR	560		H	rev	1	ж	Curren	t vers	sion:	<mark>4.2.1</mark>	ж
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.														
Proposed change	affect	ts: #	(U)	SIM	ME	/UE		Rad	io Ac	cess Ne	etwor	k X	Core N	letwork
Title: ೫	Rel	-4 spe	cific te	rminolog	<mark>gy corr</mark>	ectio	ns							
Source: अ	R-V	VG3												
Work item code: %	TEI									Da	te: Ж	Nov	ember 2	2001
Category: ж	F									Releas	se: ೫	RE	4	
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	ə: X	The	Rel-4 s	places, th specifica lave not	tion te	xt ne	eds	to be	alig	ned on F	R99 s	pecifi	cation te	xt for the
Summary of chang	ary of change: # DRNC/DRNS is replaced by Node B. Correction to a sentence in § 8.3.5.4 to align to the R99 specification text. This change has no impact.							xt.						
Consequences if not approved:	ж	If this	CR is	s not app	oroved	, the	spec	ifica	tion v	will rema	ain inc	correc	t.	
Clauses affected:	ж	8.2.1	<mark>7.2, 8.</mark>	3.5.4										
Other specs affected:	ж	Τe	est spe	ere speci cification ecification	าร	ns	ж							
Other comments:	ж													

How to create CRs using this form:

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

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

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

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

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

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mixture of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation





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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.]

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

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

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

DSCH(s):

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

[FDD – If the RADIO LINK SETUP REQUEST message includes the *TFC12 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of ToAWS and ToAWE specified in the IE's. The *Binding ID* IE and *Transport Layer Address* IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message.]

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

[TDD – USCH(s)]:

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

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

Physical Channels Handling:

[FDD – Compressed Mode]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.] [FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

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

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

[FDD – DL Code Information]:

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

General:

[FDD – If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD – If the received *Limited Power Increase* IE is set to 'Used', the <u>DRNS-Node B</u> shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control.]

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

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

Radio Link Handling:

[FDD – Transmit Diversity]:

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

DL Power Control:

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the 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 – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH and on each Time Slot of the RL until the UL synchronisation on the Uu is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the [3.84Mcps TDD - *DL Time Slot ISCPInfo* IE] or [1.28Mcps TDD - *DL Timeslot ISCP LCR* IE] is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

General:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE, the Node B shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE.]

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the Node B shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the Node B shall ignore the value in SSDT Cell Identity for EDSCHPC IE]

[FDD – Radio Link Set Handling]:

[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 Node B together with the value of the *DL TPC pattern* 01 count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

Response Message:

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

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

8.2.17.3 Unsuccessful Operation



Figure 25: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

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

Typical cause values are as follows:

Radio Network Layer Cause

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- DPC mode change not supported

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.2.17.4 Abnormal Conditions

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

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

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

8.3.5 Unsynchronised Radio Link Reconfiguration

8.3.5.1 General

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

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

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

8.3.5.2 Successful Operation

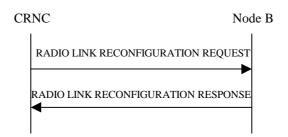


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

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

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

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

DCH Modification:

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

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

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

DCH Addition:

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

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

DCH Deletion:

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

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

[FDD - Physical Channel Modification:]

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

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

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

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

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

[TDD – UL/DL CCTrCH Modification]

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

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

[TDD – UL/DL CCTrCH Deletion]

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

RL Information:

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

- If the *RL Information* IE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH of the Radio Link once the new configuration is being used. [FDD During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]
- If the *RL Information* IE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

General

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

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

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE 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. The detailed frame protocol handling during transport bearer replacement is described in [16], section 5.10.1.

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

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

8.3.5.3 Unsuccessful Operation

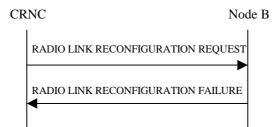


Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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

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

Typical cause values are as follows:

Radio Network Layer Cause

- CM not supported

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.3.5.4 Abnormal Conditions

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

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

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

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

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26th – 30th November, 2001

R3-013298

[#] 25.	<mark>433</mark>	CR	561	ж rev	ж	Current versi	ion: 3.7.0	¥	
For <u>HELP</u> on u	sing th	is form, see b	ottom of this	page or le	ook at the	e pop-up text	over the ¥ syr	nbols.	
Proposed change	Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network								
Title: ೫	Proc	edure Code C	Criticality in E	rror Indica	tion				
Source: अ	R-W	G3							
Work item code: %	TEI					Date: ೫	2001-11-20		
Category: ⊮	Use <u>o</u> F A B C D Detaile	ne of the follow (correction) (corresponds (addition of fe (functional mod (editorial mod ed explanations nd in 3GPP <u>TR</u>	to a correction ature), odification of fe lification) of the above	n in an earli eature)		2 R96 R97 R98 R99 R99 REL-4	R99 the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)	eases:	
Reason for change: # It is stated in the semantics description for the Procedure Criticality IE within the Criticality Diagnostics IE that the value "Ignore" shall never be used. This was true as long as this IE was only used when reporting an error on procedure code level. But since it is now also used within the ERROR INDICATION message to identify the message being reported, the value "Ignore" must also be allowed.								s was ure code sage to	
Summary of change: # The statement that the value "Ignore" shall never be used for the Procedure Code IE within the Criticality Diagnostics IE is removed. Impact analysis Impact assessment towards the previous version of the specification (same release): This CR has isolated impact because the contradiction between what is state within the semantics description for the Criticality Diagnostics IE and the description in chapter 10 of the usage of ERROR INDICATION when reportierrors may lead to different implementations. This CR has impact under functional point of view. The impact can be considered isolated because the change only affects one function, i.e. Error Indication.						me stated porting			
Consequences if not approved:		the semantics chapter 10 of	s description	for the Cr	ticality D	iagnostics IE	n what is stated and the descri porting errors.		
Clauses affected:	ж	9.2.1.17							
Other specs	ж ไ	C Other core	specificatior	ns ¥	CR383 CR071 CR072	25.413 3.7.0 25.413 4.2.0 25.419 3.6.0 25.419 4.2.0 25.423 3.7.0			

affected:		Test specifications O&M Specifications	CR509 25.423 4.2.0 CR562 25.433 4.2.1 CR012 25.453 5.1.0	
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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9.2.1.17 Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by a Node B or the CRNC when parts of a received message have not been comprehended or are missing, or if the message contained logical errors. When applicable, it contains information about which IEs that were not comprehended or were missing.

For further details on how to use the Criticality Diagnostics IE, see Annex C.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Procedure ID		01		Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error
>Procedure Code	М		INTEGER (0255)	
>Ddmode	M		ENUMERAT ED (FDD, TDD, Common)	Common = common to FDD and TDD.
Triggering Message	0		ENUMERAT ED(initiating message, successful outcome, unsuccessful outcome, outcome,	The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication.
Procedure Criticality	0		ENUMERAT ED(reject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure). The value 'ignore' shall never be used.
Transaction ID	0		Transaction ID 9.2.1.62	
Information Element Criticality Diagnostics		0 to <maxnoof errors></maxnoof 		
>IE Criticality	M		ENUMERAT ED(reject, ignore, notify)	The IE Criticality is used for reporting the criticality of the triggering IE. The value 'ignore' shall never be used.
>IE ID	М		INTEGER (065535)	The IE ID of the not understood or missing IE
>Repetition Number	0		INTEGER (0255)	 The Repetition Number IE gives in case of a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence in case of a missing IE: The number of occurrences up to but not including the missing occurrence. Note: All the counted occurrences of the reported IE must have the same topdown hierachical message structure of IEs with assigned criticality
>Message Structure	0		9.2.1.45A	above them. The Message Structure IE describes the structure where the not understood or missing IE was detected. This IE is included if the not

			understood IE is not the top level of the message.
>Type of Error	М	ENUMERAT ED(not	
		understood,	
		missing,)	

Range bound	Explanation
Maxnooferrors	Maximum no. of IE errors allowed to be reported with a single
	message.

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26th – 30th November, 2001

R3-013299

			CI	HANG	ER	EQ	UEST	-			CR-Form-v4
^ж 25.	<mark>433</mark>		CR	562	ж	rev	ж	Current vers	ion:	4.2.1	ж
For <u>HELP</u> on u	For HELP on 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										
<i>Title:</i> ដ	Pro	cedure	e Code C	riticality in	n Error	Indic	ation				
Source: ೫	R-V	VG3									
Work item code: %	TE	l						Date: ೫	2007	1-11-20	
Category: ₩	Deta	F (corr A (corr B (add C (fund D (edit iled exp	rection) responds lition of fea ctional mo torial modi	dification of ification) of the abo	tion in o of featu	re)		Release: # Use <u>one</u> of 2 re) R96 R97 R98 R99 REL-4 REL-5	the foll (GSM (Relea (Relea (Relea	lowing rele Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	pases:
Reason for change	Reason for change: It is stated in the semantics description for the Procedure Criticality IE within the Criticality Diagnostics IE that the value "Ignore" shall never be used. This was true as long as this IE was only used when reporting an error on procedure code level. But since it is now also used within the ERROR INDICATION message to identify the message being reported, the value "Ignore" must also be allowed.								s was ure code sage to		
Summary of change: # The statement that the value "Ignore" shall never be used for the Procedur Code IE within the Criticality Diagnostics IE is removed. Impact analysis Impact assessment towards the previous version of the specification (sam release): This CR has isolated impact because the contradiction between what is st within the semantics description for the Criticality Diagnostics IE and the description in chapter 10 of the usage of ERROR INDICATION when reporterors may lead to different implementations. This CR has impact under functional point of view. The impact can be considered isolated because the change only affects of function, i.e. Error Indication.						me stated porting					
Consequences if not approved:	*	the s chap	emantics ter 10 of	descripti	on for	the C	riticality [diction betwee Diagnostics IE TION when re	and th	he descri	
Clauses affected:	Ħ	9.2.1									
Other specs	X	X Ot	her core	specificat	tions	ж	CR383 CR071 CR072	25.413 3.7.0 25.413 4.2.0 25.419 3.6.0 25.419 4.2.0 25.423 3.7.0			

affected:		Test specifications O&M Specifications	CR509 25.423 4.2.0 CR561 25.433 3.7.0 CR012 25.453 5.1.0	
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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9.2.1.17 Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by a Node B or the CRNC when parts of a received message have not been comprehended or are missing, or if the message contained logical errors. When applicable, it contains information about which IEs that were not comprehended or were missing.

For further details on how to use the Criticality Diagnostics IE, see Annex C.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Procedure ID		01		Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error
>Procedure Code	М		INTEGER (0255)	
>Ddmode	M		ENUMERAT ED (FDD, TDD, Common)	Common = common to FDD and TDD.
Triggering Message	0		ENUMERAT ED(initiating message, successful outcome, unsuccessful outcome, outcome,	The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication.
Procedure Criticality	0		ENUMERAT ED(reject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure). The value 'ignore' shall never be used.
Transaction ID	0		Transaction ID 9.2.1.62	
Information Element Criticality Diagnostics		0 to <maxnoof errors></maxnoof 		
>IE Criticality	M		ENUMERAT ED(reject, ignore, notify)	The IE Criticality is used for reporting the criticality of the triggering IE. The value 'ignore' shall never be used.
>IE ID	М		INTEGER (065535)	The IE ID of the not understood or missing IE
>Repetition Number	0		INTEGER (0255)	 The Repetition Number IE gives in case of a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence in case of a missing IE: The number of occurrences up to but not including the missing occurrence. Note: All the counted occurrences of the reported IE must have the same topdown hierachical message structure of IEs with assigned criticality above them.
>Message Structure	0		9.2.1.45A	The Message Structure IE describes the structure where the not understood or missing IE was detected. This IE is included if the not

Release 4

			understood IE is not the top level of the message.
>Type of Error	M	ENUMERAT ED(not understood, missing,)	

Range bound	Explanation
Maxnooferrors	Maximum no. of IE errors allowed to be reported with a single message.

CHANGE REQUEST								
[#] 25.43	3 CR	564	₩ rev	ж	Current vers	sion: 3.7.	<mark>0</mark> ^ж	
For <u>HELP</u> on using	g this form, see l	oottom of this	page or	look at t	he pop-up text	over the ¥	symbols.	
Proposed change affe	<i>cts:</i> ೫ (U)SI	M ME/	ÚE	Radio /	Access Networl	k X Core	Network	
	larification for the	•	stment	<i>Type</i> IE i	n the DL POW	ER CONTR	OL	
	-WG3	go						
Work item code: # T					Date: ສ	Novembe	r 2001	
Category: % F					Release: #		2001	
Use	e <u>one</u> of the follow F (essential con A (corresponds B (Addition of fe C (Functional n D (Editorial mod tailed explanations found in 3GPP TR	rection) to a correction eature), nodification of t dification) s of the above	n in an ea feature)		Use <u>one</u> of 2	the following (GSM Phase (Release 19 (Release 19 (Release 19 (Release 19 (Release 4) (Release 5)	92) 96) 97) 98)	
Reason for change: ३	of the Power that a clarific	Adjustment T ation that if th	<i>Type</i> IE i e Power	n the cor Adjustm	ext, the descrip ntext is missing tent Type is se activation is nee	J. In addition t to "Common to the to the total structure in the	, it seems	
Summary of change: \$	f This CR prope	ses to clarify	that;					
		r Adjustment e <i>Power Adji</i>			ext shall be cha	anged when	the new	
		er Adjustmen power baland			Common", futu	re RL's will I	have	
Consequences if a standard stand standard standard sta	If this CR is r unclear.	ot approved,	the han	dling of t	he Power Adju	stment Type	e IE is	
	Impact Analys	is:						
	Impact assess release):	ment toward	s the pre	vious ve	rsion of the spe	ecification (s	same	
		use within sor	ne existi	ing imple	us version of the mentations the proposal.		•	
	ONLY if there							
	This CR has a							
					ause the chang Adjustment Ty		ne system	

, , , , , , , , , , , , , , , , , , ,	X		CR565 on TS 25.433 V4.2.1 (REL-4) CR511 on TS 25.423 V3.7.0 (R99) CR512 on TS 25.423 V4.2.0 (REL-4)
affected:		Test specifications O&M Specifications	
Other comments: #			

i.

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.

8.3.7 Downlink Power Control [FDD]

8.3.7.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more Radio Links used for the related UE-UTRAN connection within the Node B. The Downlink Power Control procedure may be initiated by the CRNC at any time when the Node B communication context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B communication context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Control procedure shall no longer be initiated.

8.3.7.2 Successful Operation



Figure 37: Downlink Power Control procedure, Successful Operation

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B.

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

If the value of the *Power Adjustment Type* IE is *Common*, the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Common". As long as the Power Balancing Adjustment Type of the Node B Communication Context is set to "Common", the Node B shall perform the power adjustment (see below) for all existing and future radio links associated with the context identified by the *Node B Communication Context ID* IE and useing a common DL reference power level.

If the value of the *Power Adjustment Type* IE is *Individual*, the Power Balancing Adjustment Type of the Node B <u>Communication Context shall be set to "Individual".</u> <u>{The Node B shall perform the power adjustment (see below) for</u> all radio links addressed in the message using the given DL Reference Powers per RL. <u>If the Power Balancing</u> <u>Adjustment Type of the Node B Communication Context was set to "Common" before this message was received</u>, power balancing on all radio links not addressed by the DL POWER CONTROL REQUEST message shall remain to be executed in accordance with the existing power balancing parameters which are now considered RL individual parameters. Power balancing will not be started on future radio links without a specific request.

If the value of the *Power Adjustment Type* IE is '*None*', <u>the Power Balancing Adjustment Type of the Node B</u> <u>Communication Context shall be set to "None" and the Node B shall suspend on going power adjustments for all radio</u> links for the UE Context.

CHANGE REQUEST															
æ	25 /	100			565		ж	rev		ж	Current	versio	n.	1 2 1	H
	25.4	133	1	CR	202		00			00	Ourient	Verbio		4.2.1	
For <u>HELP</u>	on us	sing	this forr	n, see k	ottom o	f this	pag	e or	look	at th	e pop-up	text o	ver tl	he ¥ syr	nbols.
Proposed cha	ange a	ffec	<i>ts:</i>	(U)SI	M	ME/	/UE		Rad	io Ac	ccess Net	work	X	Core Ne	etwork
Title:	Ħ			n for the messa		' Adju	istm	ent T	Type I	E in	the DL P	OWEF	R CC	NTROL	
Source:	ж	R-V	WG3												
Work item cod	de: #	TE	l								Date	e: Ж	Nove	ember 20	001
Category:	ж	Α									Release	ə: #	<mark>REL</mark>	-4	
		Deta	F (esse A (corre B (Addi C (Fund D (Edite iled expl	ntial con esponds tion of fe ctional mo orial mod anations	to a corr	ection	n in a featu	re)			2	(C) (F) (F) (F) (F) (F) (F) (F) (F	GSM Relea Relea Relea Relea Relea	lowing rel Phase 2) Ise 1996) Ise 1997) Ise 1998) Ise 1999) Ise 4) Ise 5)	
Reason for ch	nange:	· ¥	of the that a	Power clarifica	Adjustm ation tha	nent T It if th	<i>Type</i> le Po	IE i	n the [.] Adju	cont stme	kt, the des ext is mis ent Type is tivation is	sing. I s set te	n ad o "Co	dition, it	seems
Summary of c	hange	э <i>:</i> Ж	This C	R propo	ses to c	larify	that	•,							
											kt shall be received		ged	when the	e new
			- Ift	he Powe		tmen	nt Ty	pe is	s set t	o "C	ommon",		RL's	s will hav	′e
Consequence not approved:		Ħ	If this unclea		ot appro	oved,	the	han	dling	of the	e Power A	Adjusti	ment	t Type IE	is
			Impact	Analysi	<u>s:</u>										
			Impact release		ment to	ward	s the	e pre	evious	vers	sion of the	e spec	ificat	tion (san	ne
			release	e) becau		n soi	me e	existi	ing im	plen	version on nentations oposal.				
			ONLY	if there	s impac	: <u>t:</u>									
			This C	R has a	n impac	t und	ler fu	uncti	onal p	point	of view.				
											use the c <i>djustmen</i>			ects one	system

Other specs ೫	X	Other core specifications #	CR564 on TS 25.433 V3.7.0 (R99) CR511 on TS 25.423 V3.7.0 (R99) CR512 on TS 25.423 V4.2.0 (REL-4)
affected:		Test specifications O&M Specifications	
Other comments: #			

i.

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.

8.3.7 Downlink Power Control [FDD]

8.3.7.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more Radio Links used for the related UE-UTRAN connection within the Node B. The Downlink Power Control procedure may be initiated by the CRNC at any time when the Node B communication context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B communication context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Control procedure shall no longer be initiated.

8.3.7.2 Successful Operation



Figure 37: Downlink Power Control procedure, Successful Operation

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B.

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

If the value of the *Power Adjustment Type* IE is *Common*, the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Common". As long as the Power Balancing Adjustment Type of the Node B Communication Context is set to "Common", the Node B shall perform the power adjustment (see below) for all existing and future radio links associated with the context identified by the *Node B Communication Context ID* IE and useing a common DL reference power level.

If the value of the *Power Adjustment Type* IE is *Individual*, the Power Balancing Adjustment Type of the Node B <u>Communication Context shall be set to "Individual".</u> The Node B shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Powers per RL. If the Power Balancing Adjustment Type of the Node B Communication Context was set to "Common" before this message was received, power balancing on all radio links not addressed by the DL POWER CONTROL REQUEST message shall remain to be executed in accordance with the existing power balancing parameters which are now considered RL individual parameters. Power balancing will not be started on future radio links without a specific request.

If the value of the *Power Adjustment Type* IE is '*None*', <u>the Power Balancing Adjustment Type of the Node B</u> <u>Communication Context shall be set to "None" and the Node B shall suspend on going power adjustments for all radio links for the UE Context.</u>

CR-Form-v3										
CHANGE REQUEST										
[#] 25.4	33 CR	566 [#]	^{rev} 1	H Cu	urrent versio	on: 3.7.0	ж			
For <u>HELP</u> on usi	ng this form, see	bottom of this p	age or look	at the po	op-up text o	ver the X syn	nbols.			
Proposed change af	fects:	SIM ME/U	E Rac	lio Acces	ss Network	X Core Ne	etwork			
Title: #	Forward Compa	tibility for DL Por	wer Balancir	ng						
Source: ೫	R-WG3									
Work item code: #	TEI				Date: ೫	November 20	001			
Category: ೫	F			Re	elease: ೫ <mark>–</mark>	R99				
D	B (Addition of	orrection) ds to a correction f feature), modification of fe odification) ns of the above ca	ature)	elease)	2 (C R96 (F R97 (F R98 (F R99 (F REL-4 (F	ne following rele GSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5)	eases:			
Reason for change:	for the cond received. H when the po message. In	nt RL Setup/Add is not varied un erning RLS or a owever, in Rel.5 ower balancing r n order to reflect etter to modify th	il UL synchr DL POWER , initial DL T elated IEs a this descrip	onisation R CONT X power re includ tion into	n is achieve ROL REQU level will be led in the RI Rel.5 speci	d on the Uu ii EST messag varied, if sup L Setup Requ	nterface e is oported, lest			
Summary of change	:೫ <u>Rev.1</u>									
		d text, "The Pow NTROL REQUE				the receptior	n of a DL			
	Rev.0									
	synchronisat Balancing is	ooses to clarify to ion is achieved of activated. In R9 a DL POWER C	on the Uu in 9, Power Ba	terface for lancing i	or the conce	erning RLS or	Power			
Consequences if not approved:	# If this CR is Rel.5 function	not approved, it onality.	might be di	fficult to	introduce th	e description	of the			
	Impact Analy	<u>/sis:</u>								
	Impact asses release):	ssment towards	the previous	s version	of the spec	cification (sam	ie			
	release) be	s no impact with cause this propo ive an impact on	sal only cha	inges the						

Other specs affected:	₩)	 Other core specifications Test specifications O&M Specifications 	ж	CR567 on TS 25.433 V4.2.1 (REL-4) CR513 on TS 25.423 V3.7.0 (R99) CR514 on TS 25.423 V4.2.0 (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.

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

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

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation



Figure 24: Radio Link Setup procedure, Successful Operation

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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.]

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

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

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

DSCH(s):

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

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

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

[TDD – USCH(s)]:

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

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

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

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

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

[FDD - DL Code Information]:

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

General:

[FDD – If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

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

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

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

Radio Link Handling:

[FDD - Transmit Diversity]:

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

DL Power Control:

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or <u>or Power</u> <u>Balancing is activated</u> <u>DL POWER CONTROL REQUEST</u> message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE=0 and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[TDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until the UL synchronisation on the Uu is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the *DL Time Slot ISCP Info* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

<Not affected part is omitted>

8.3.1 Radio Link Addition

8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B communication context for this UE in the Node B.

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

8.3.1.2 Successful Operation

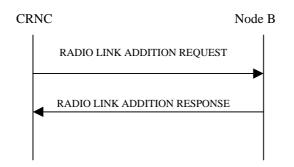


Figure: 28 Radio Link Addition procedure, Successful Operation

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

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

Release 1999

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

Physical Channels Handling:

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

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

[FDD - Compressed Mode]:

[FDD – If the RADIO LINK ADDITION REQUEST includes the *Compressed Mode Deactivation Flag* IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD- If the RADIO LINK ADDITION REQUEST contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the *Transmission Gap Pattern Sequence Code Information* IE is set to "Code Change".]

[FDD - DL Code Information]:

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

[TDD - CCTrCH Handling]:

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

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

Radio Link Handling:

Diversity Combination Control:

The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

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

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

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

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

[FDD - Transmit Diversity]:

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

[FDD – When *Transmit Diversity Indicator* IE is present Node B shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE and the already known diversity mode.]

DL Power Control:

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH of the RL when starting transmission until either UL synchronisation on the Uu is achieved for the RLS or <u>Power Balancing is</u> activated a DL POWER REQUEST message is received. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE=0 and the downlink power control procedure (see 8.3.7).]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu is achieved for the RL. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied. [FDD - During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *DL Time Slot ISCP Info* IE, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

Makunan, Japai	1, 20									CR-Form-v3
CHANGE REQUEST										
^ж 25.	<mark>433</mark>	CR	567	¥ rev	1	ж	Current vers	sion:	4.2.1	ж
For <u>HELP</u> on u	ising	this form, see	bottom of th	is page c	r look	at the	e pop-up text	t over i	the ¥ syr	nbols.
Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network										
Title: %	For	ward Compati	bility for DL	Power Ba	alancir	ng				
Source: ೫	R-\	WG3								
Work item code: ೫	TE	l					Date: #	Nov	ember 20	001
Category: ж	Α						Release: #	REI	4	
	Deta	one of the follow F (essential co A (correspond: B (Addition of i C (Functional i D (Editorial modiled iled explanation bund in 3GPP Ti	rrection) s to a correct feature), modification c dification) s of the abov	ion in an e of feature)			Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	(GSM (Relea (Relea (Relea (Relea	llowing rel 1 Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 5)	
Reason for change	9: ¥	power level i for the conce received. Ho when the po	s not varied erning RLS wever, in R wer balancii order to ref	until UL or a DL P el.5, initia ng related lect this d	synchr OWEF I DL T I IEs a escrip	ronisa R CO X por re inc otion i	ext, it is state ation is achie NTROL REC wer level will cluded in the nto Rel.5 spe ure text.	ved or QUEST be var RL Se	n the Uu i I messag ried, if su etup Requ	nterface je is pported, jest
Summary of chang	је: Ж	<u>Rev.1</u>								
		The proposed POWER COM				U		to the	reception	n of a DL
		<u>Rev.0</u>			-					
	This CR proposes to clarify that the initial DL TX power level is not varied until U synchronisation is achieved on the Uu interface for the concerning RLS or Power Balancing is activated. In R99, Power Balancing is activated only due to the reception of a DL POWER CONTROL REQUEST.						r Power			
Consequences if not approved:	ж	If this CR is Rel.5 functio		d, it migh	t be di	fficult	t to introduce	the de	escription	of the
		Impact Analys	sis:							
		Impact asses release):	sment towa	rds the pr	evious	s vers	sion of the sp	ecifica	ation (san	ne
			ause this pr	oposal o	nly cha	anges	sion of the sp the descript			

Other specs affected:	ж)	Other core specifications Test specifications O&M Specifications	ж	CR566 on TS 25.433 V3.7.0 (R99) CR513 on TS 25.423 V3.7.0 (R99) CR514 on TS 25.423 V4.2.0 (REL-4)
Other comments:	ж			

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

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

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

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

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mixture of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation



Figure 24: Radio Link Setup procedure, Successful Operation

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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.]

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

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

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

DSCH(s):

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

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

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

[TDD – USCH(s)]:

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

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

Physical Channels Handling:

[FDD – Compressed Mode]:

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

[FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

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

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

[FDD – DL Code Information]:

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

General:

[FDD – If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD – If the received *Limited Power Increase* IE is set to 'Used', the 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 *TFCI Signalling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power.]

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

Radio Link Handling:

[FDD – Transmit Diversity]:

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

DL Power Control:

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or <u>Power</u> <u>Balancing is activated</u> a DL POWER CONTROL REQUEST message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the 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 – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH and on each Time Slot of the RL until the UL synchronisation on the Uu is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the [3.84Mcps TDD - *DL Time Slot ISCPInfo* IE] or [1.28Mcps TDD - *DL Timeslot ISCP LCR* IE] is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

<Not affected part is omitted>

8.3.1 Radio Link Addition

8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B communication context for this UE in the Node B.

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

8.3.1.2 Successful Operation

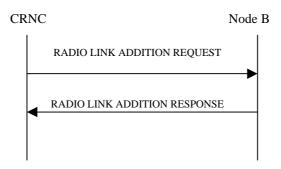


Figure: 28 Radio Link Addition procedure, Successful Operation

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

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

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

Physical Channels Handling:

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

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

[FDD – Compressed Mode]:

[FDD – If the RADIO LINK ADDITION REQUEST includes the *Compressed Mode Deactivation Flag* IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD- If the RADIO LINK ADDITION REQUEST contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the *Transmission Gap Pattern Sequence Code Information* IE is set to "Code Change".]

[FDD – DL Code Information]:

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

[TDD – CCTrCH Handling]:

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

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

Radio Link Handling:

Diversity Combination Control:

The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one

of the other RL. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not" the Node B shall not combine the RL with any other existing RL.

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

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

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

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

[FDD – Transmit Diversity]:

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

[FDD – When *Transmit Diversity Indicator* IE is present Node B shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE and the already known diversity mode.]

DL Power Control:

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH of the RL when starting transmission until either UL synchronisation on the Uu is achieved for the RLS or <u>Power Balancing is</u> <u>activated</u> <u>a DL POWER REQUEST message is received</u>. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE currently configured for the relevant Node B Communication Context and the downlink power control procedure (see 8.3.7).]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the [3.84Mcps TDD - *Initial DL Transmission Power* IE] [1.28Mcps TDD – *DL Time Slot ISCP Info LCR* IE], the Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu is achieved for the RL. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied. [FDD - During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *DL Time Slot ISCP Info* IE, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref.

[21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26th – 30th November, 2001

R3-013356

CHANGE REQUEST								
ж	25.433 CR 568	₩ ev	ے 🕷 Current ve	ersion: 3.7.0 [#]				
For <u>HELP</u> on	sing this form, see botto	m of this page or	look at the pop-up te	xt over the # symbols.				
Proposed change	affects: ೫ (U)SIM	ME/UE	Radio Access Netwo	ork X Core Network				
Title:	Reconfiguration clarifier	cation						
Source:	R-WG3							
Work item code:	TEI		Date:	೫ November, 2001				
Category: S	F Use <u>one</u> of the following of F (correction) A (corresponds to a B (addition of feature C (functional modifica D (editorial modifica Detailed explanations of t be found in 3GPP <u>TR 21.5</u>	correction in an ea e), cation of feature) tion) he above categorie	2 rlier release) R96 R97 R98 R99	of the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) 4 (Release 4)				
Reason for change: # The current specification version states that the Synchronised Radio Link Reconfiguration Preparation procedure is 'used to prepare a new configuration of ALL Radio Links', although it is possible to specify one or several RLs in the RL Information. Summary of change: #								
	tabular format. The Link Reconfigura Radio Link(s)'. Impact Analysis:	tabular format. The procedure text is now aligned also with Unsynchronised radio Link Reconfiguration when stating that the procedure is 'used to reconfigure Radio Link(s)'. Impact Analysis: Impact assessment towards the previous version of the specification (same						
release): This CR has no impact with the previous version of the specification (same release) for implementations aligned with the added clarification. For implementations based on different assumptions, this CR may have isolate impact.								
Consequences if not approved:	# The conflict betw might cause mist		e text and the message	ge structure remains, and				
Clauses affected:	ж <mark>8.3.2</mark>							
Other specs affected:	 Contraction of the section of the sect		CR 569 on 25.433 CR 515 on 25.423 CR 516 on 25.423	(R99)				
Other comments:	O&M Specifica	ations						

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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.2 Synchronised Radio Link Reconfiguration Preparation

8.3.2.1 General

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

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

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26th – 30th November, 2001

R3-013357

CHANGE REQUEST										
ж	25	<mark>.433</mark>	CR <mark>569</mark>	ж	ev	- *	Current vers	ion:	4.2.1	ж
For <u>HELP</u> on	using	this for	m, see bottom	of this pag	ge or l	ook at the	e pop-up text	over tl	he ¥ syı	nbols.
Proposed change	e affec	ts: #	(U)SIM	ME/UE		Radio Ac	cess Networl	< X	Core Ne	etwork
Title:	₩ <mark>Re</mark>	<mark>config</mark> u	ration clarificat	ion						
Source:	₩ <mark>R-\</mark>	NG3								
Work item code:	¥ TE	I					Date: ೫	Nove	ember, 2	.001
Category:	Deta	F (corr A (corr B (add C (fund D (edin ailed exp	the following cate rection) responds to a col lition of feature), ctional modificatio torial modificatior blanations of the 3GPP <u>TR 21.900</u>	rrection in a on of featur n) above cate	re)		Release: % Use <u>one</u> of 2 9) R96 R97 R98 R99 REL-4 REL-5	the follo (GSM) (Relea (Relea (Relea	owing rele Phase 2) se 1996) se 1997) se 1998) se 1999) se 4)	
Reason for chang	те [,] Ж	The	current specific	ation vers	ion st	ates that t	the Synchron	isod R	adio Lin	
neuson for chang	<i>ye.</i> 00	Reco ALL	nfiguration Pre Radio Links', al mation.	paration p	proced	ure is 'us	ed to prepar	e a nev	v configu	uration of
Summary of char	nge:	tabul Link	procedure text ar format. The Reconfiguration o Link(s)'.	procedure	e text i	s now alig	aned also wit	h Unsy	/nchroni	sed radio
			ct Analysis: ct assessment se):	towards th	he pre	vious ver	sion of the s	pecifica	ation (sa	me
This CR has no impact with the previous version of the specification (same release) for implementations aligned with the added clarification. For implementations based on different assumptions, this CR may have isolated impact. This CR is backward compatible towards the previous release, being a cat. A CR.						ated				
Consequences if not approved:	° ¥		conflict betweer t cause misund			text and	the message	struct	ure rema	ains, and
Clauses affected	: ¥	8.3.2								
Other specs	ж		ther core specif		ж	CR 515	on 25.433 (F on 25.423 (F on 25.423 (F	R99)		
affected:			est specification &M Specificatio							

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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.2 Synchronised Radio Link Reconfiguration Preparation

8.3.2.1 General

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

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

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26th – 30th November, 2001

R3-013650

CR-Form-v4							
[#] 25	5.433 CR 570 [#] ev 2 [#] Current version: 3.7.0 [#]						
For <u>HELP</u> on using	this form, see bottom of this page or look at the pop-up text over the \Re symbols.						
Proposed change affect	cts: ೫ (U)SIM ME/UE Radio Access Network 🗴 Core Network						
Title: # Add	lition of amendment to clarify the PER encoding of bitstrings						
Source: ^{# R-V}	VG3						
Work item code: ℜ <mark>TE</mark> I	Date:						
F (0 A (B (C (D (Deta	Release: %R99One of the following categories: correction)Use one of the following releases: 2 (GSM Phase 2)corresponds to a correction in an earlier release) addition of feature), functional modification of feature)R96 R97 (Release 1996)functional modification of feature) editorial modification)R98 R99 (Release 1998)ailed explanations of the above categories can ound in 3GPP TR 21.900.REL-4 (Release 5)						
	clarification will appear in the 2002 version of X.691, but as RAN3 specifications refer to the 1997 version, this amendement will not automatically apply to RAN3 specifications. Therefore a specific clarification is needed within the RAN3 TSs. For further reasoning, please refer to document R3-013363.						
Summary of change: ೫	A clarification was added to subclause 9.4. Rev.1: a slight rewording of the added note was performed and the reference to X.680 was reformulated. Rev2: tdoc number was added on the cover page.						
Consequences if # not approved:	If this CR is not approved, NBAP will still refer to an incomplete specification w.r.t. to the PER encoding of bitstrings.						
	Impact Analysis:						
	Impact assessment towards the previous version of the specification (same release):						
This CR has no impact on the previous version of the specification (same release for implementations aligned with the added clarification. For implementations based otherwise on different assumptions, this CR may have isolated/non isolated impact, depending on the single implementation choices. It must be stated that this interpretation is the assumed one in ITU-T and the clarification was added only for completeness.							
Clauses affected: #	9.4						
Other specs #							

073 SABP R99, CR 571 NBAP R4, CR 520 RNSAP R4, CR 385 RANAP R99, CR 386 RANAP R4, CR 013 PCAP R5

Affected:	Test specifications O&M Specifications	
Other comments:	ж	

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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [11].

The following encoding rules apply in addition to what has been specified in X.691 [11]:

When a bitstring value is placed in a bit-field as specified in 15.6 to 15.11 in [11], the leading bit of the bitstring value shall be placed in the leading bit of the bit-field, and the trailing bit of the bitstring value shall be placed in the trailing bit of the bit-field.

NOTE - When using the "bstring" notation, the leading bit of the bitstring value is on the left, and the trailing bit of the bitstring value is on the right. The term 'leading bit' is to be interpreted as equal to the term 'first bit' defined in [12].

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26th – 30th November, 2001

R3-013652

CHANGE REQUEST							
ж <mark>2</mark>	25.433 CR 571 [#] ev 2 [#] Current version: 4.2.1 [#]						
-							
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	rects: ೫ (U)SIM ME/UE Radio Access Network X Core Network						
Title: ೫ <mark>A</mark>	ddition of amendment to clarify the PER encoding of bitstrings						
Source: ೫ R	-WG3						
Work item code: ೫ <mark>⊤</mark>	EI Date: # November, 2001						
Category:% ARelease: % REL-4Use one of the following categories: F (correction)Use one of the following releases: 2A (corresponds to a correction in an earlier release)R96B (addition of feature), C (functional modification of feature)R97C (functional modification of feature) D (editorial modification)R98D (editorial modification) be found in 3GPP TR 21.900.R21.900.							
	* There is a lack of specification w.r.t. PER encoding of bitstrings in X691. A clarification will appear in the 2002 version of X.691, but as RAN3 specifications refer to the 1997 version, this amendement will not automatically apply to RAN3 specifications. Therefore a specific clarification is needed within the RAN3 TSs. For further reasoning, please refer to document R3-013363.						
Summary of change:	 A clarification was added to subclause 9.4. Rev.1: a slight rewording of the added note was performed and the reference to X.680 was reformulated. Rev2: tdoc number was added on the cover page. 						
Consequences if not approved:	If this CR is not approved, NBAP will still refer to an incomplete specification w.r.t. to the PER encoding of bitstrings.						
	Impact Analysis:						
	Impact assessment towards the previous version of the specification (same release):						
This CR has no impact on the previous version of the specification (same release) for implementations aligned with the added clarification. For implementations based otherwise on different assumptions, this CR may have isolated/non isolated impact, depending on the single implementation choices. It must be stated that this interpretation is the assumed one in ITU-T and the clarification was added only for completeness.							
Clauses affected:	¥ 9.4						
Other specs	X Other core specifications X CR 074 SABP R4, CR 570 NBAP R99, CR						

 * CR 074 SABP R4, CR 570 NBAP R99, CR 073 SABP R99, CR 519 RNSAP R99, CR 520 RNSAP R4, CR 385 RANAP R99, CR 386 RANAP R4, CR 013 PCAP R5

Affected:	Test specifications O&M Specifications	
Other comments:	ж	

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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [11].

The following encoding rules apply in addition to what has been specified in X.691 [11]:

When a bitstring value is placed in a bit-field as specified in 15.6 to 15.11 in [11], the leading bit of the bitstring value shall be placed in the leading bit of the bit-field, and the trailing bit of the bitstring value shall be placed in the trailing bit of the bit-field.

NOTE - When using the "bstring" notation, the leading bit of the bitstring value is on the left, and the trailing bit of the bitstring value is on the right. The term 'leading bit' is to be interpreted as equal to the term 'first bit' defined in [12].

3GPP TSG-RAN3 #25 Meeting Makuhari, Japan, 26 – 30 November 2001

ж <mark>2</mark>	25.433 CR 574 ^{# rev} 2 [#]	Current version: 3.7.0 [#]					
For <u>HELP</u> on usin	ng this form, see bottom of this page or look at the	e pop-up text over the X symbols.					
Proposed change aff	ects: # (U)SIM ME/UE Radio Ac	cess Network X Core Network					
Title: # 1	Transport Bearer replacement clarification for the	DSCH case					
Source: ೫ F	R-WG3						
Work item code: 🕷 🧻	ΓΕΙ	Date: # November 2001					
Category: ж F		Release: ೫ R99					
De	se <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) etailed explanations of the above categories can e found in 3GPP TR 21.900.	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)					
Reason for change:	* The NBAP specification offers the possibility Reconfiguration to replace the transport bear exact behaviour for such a transport bearer results.	rer used for the DSCH. However, the					
Summary of change:	 A reference to the subclause in TS 25.435 class transport bearer replacement is added. This change has isolated impact As a clarification, this change is in line with the it has no impact on implementations behavior 	ne intention of the specification, thus					
Consequences if not approved:	# If this CR is not approved, the specification w	vill remain incomplete.					
Clauses affected:	¥						
Other specs affected:	TS 25.4	33 v4.2.1 CR 575 35 v3.8.0 CR 71 35 v4.2.0 CR 72					
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.

8.3.3 Synchronised Radio Link Reconfiguration Commit

8.3.3.1 General

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

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.3.2 Successful Operation



Figure 32:Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

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

[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 Node B.]

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. The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1 and in [24], sub-clause 5.8.2.

[FDD – If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the *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.]

8.3.3.3 Abnormal Conditions

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

	CHANGE REQUEST								CR-Form-v3			
¥	25	. <mark>433</mark>	CR <mark>57</mark>	5	Ж re	ev	<mark>2</mark> [#]	ß Curre	ent vers	sion:	4.2.1	ж
For <u>HELP</u> on u	using	this for	m, see bo	ttom of thi	s page	or lo	ook at	the pop-	up tex	t over	the ¥ s	ymbols.
Proposed change	affec	<i>ts:</i> Ж	(U)SIM	ME	E/UE	F	Radio	Access I	Networ	rk X	Core N	Network
Title: ¥	s Tra	Insport	Bearer re	placemen	t clarifi	catio	<mark>n for t</mark>	he DSCI	H case	!		
Source: ¥	R-N	VG3										
Work item code: ₩	B TE							Ľ	Date: #	8 Nov	/ember 2	2001
Category: भ	B A							Rele	ase: #	RE	L-4	
	Deta	F (ess A (cor B (Add C (Fur D (Edi iled exp	the following ential corre- responds to dition of fea- torial modified blanations of 3GPP TR 2	ction) a correction ture), dification of ication) of the above	on in an feature	e)		ase) 	e <u>one</u> of 2 R96 R97 R98 R99 REL-4 REL-5	(GSN (Rele (Rele (Rele (Rele (Rele	llowing re 1 Phase 2 ase 1996 ase 1997 ase 1998 ase 1999 ase 4) ase 5)	2) 5) 7) 3)
Reason for chang	e: #	Reco	NBAP spe onfiguration t behaviou	n to replac	e the t	rans	port be	earer us	ed for t	the DS	SCH. Ho	wever, the
Summary of chang	ge: Ж	trans This As a	erence to port beare change ha clarificatio no impac	er replacer as isolated on, this cha	ment is I impac ange is	add t in lir	ed. ne with	h the inte	ention	of the	specifica	a DSCH ation, thus
Consequences if not approved:	ж	If this	CR is not	tapproved	d, the s	pecif	ficatio	n will ren	nain in	compl	ete.	
Clauses affected:	ж											
Other specs affected:	ж	Te	her core s est specific &M Specif	ations	ons	ж	TS 2	5.433 v3 5.435 v3 5.435 v4	.8.0 Cl	R 71		
Other comments:	ж		·									

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

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

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

8.3.3 Synchronised Radio Link Reconfiguration Commit

8.3.3.1 General

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

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.3.2 Successful Operation



Figure 32:Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

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

[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 Node B.]

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. The detailed frame protocol handling during transport bearer replacement is described in [16], section 5.10.1 and in [24], sub-clause 5.8.2.

[FDD – If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the *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.]

8.3.3.3 Abnormal Conditions

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

CHANGE REQUEST							
ж	25.433 CR 576 [#] ev - [#]	Current version: 3.7.0 [#]					
For <mark>HELP</mark> on l	sing this form, see bottom of this page or look at th	e pop-up text over the X symbols.					
Proposed change	affects:	ccess Network X Core Network					
Title: ដ	Clarification of the Transaction ID						
Source: ೫	R-WG3						
Work item code: ₩	TEI	Date:					
Category: अ	 F Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>. 	Release: %R99Use one 2of the following releases: 22(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	: X The Transaction ID is used to associate all t	he messages belonging to the same					
	Reason for change: # The Transaction ID is used to associate all the messages belonging to the same procedure: messages belonging to the same procedure shall use the same transaction ID. The type of the Transaction ID is defined as a choice with two kinds of encoding (short and long). However, it is not clear if the UTRAN nodes should consider the Transaction ID value or also its kind of encoding when decoding. This ambiguity can cause error scenarios.						
Summary of change: # Clarification added in the semantics description of the tabular format of Transaction ID IE: "The Transaction ID shall be interpreted for its integer van not for the type of encoding ("short" or "long")". Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has [isolated impact] with the previous version of the specification (same release) because within some existing implementations the Transaction ID could be interpreted using not only its value but also its type, and it could trigger an Error Indication in some cases when in fact the procedure should succeded. ONLY if there is impact: This CR has an impact under [protocol] point of view. The impact [can] be considered isolated because the change affects only to some isolated implementations that consider both the value and type of encoding when interpreting the Transaction ID.							
Consequences if not approved:	# If this CR is not approved, the interpretation unclear and it could lead to multi-vendor inte						
Clauses affected:	¥ 9.2.1.62						
Other specs	TS 25.4	433 v4.2.1 CR-577 (REL-4) 423 v3.7.0 CR-528 (R99) 423 v4.2.0 CR-529 (REL-4)					

affected:	Test specifications O&M Specifications	
Other comments:	¥	

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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9.2.1.62 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure.- Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B control port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transaction ID			CHOICE	The Transaction ID shall be
			INTEGER	interpreted for its integer value,
			(0127) or	not for the type of encoding
			INTEGER	("short" or "long").
			(032767)	·

	CHAN	CR-Form-v4
ж	25.433 CR 577	# ev _ # Current version: 4.2.1 #
For <u>HELP</u> on	sing this form, see bottom o	of this page or look at the pop-up text over the $#$ symbols.
Proposed change	ffects: ೫ (U)SIM	ME/UE Radio Access Network X Core Network
Title:	Clarification of the Transa	action ID
Source:	R-WG3	
Work item code:	TEI	<i>Date:</i> ೫ 21 Nov. 2001
Category:	A Use <u>one</u> of the following categ F (correction) A (corresponds to a corr B (addition of feature), C (functional modification) D (editorial modification) Detailed explanations of the a be found in 3GPP <u>TR 21.900</u> .	2 (GSM Phase 2) rection in an earlier release) R96 (Release 1996) R97 (Release 1997) on of feature) R98 (Release 1998)) R99 (Release 1999) above categories can REL-4 (Release 4)
Reason for chang	: X The Transaction ID is	s used to associate all the messages belonging to the same
	transaction ID. The ty kinds of encoding (sh should consider the T	es belonging to the same procedure shall use the same ype of the Transaction ID is defined as a choice with two hort and long). However, it is not clear if the UTRAN nodes Transaction ID value or also its kind of encoding when guity can cause error scenarios.
Summary of char	Transaction ID IE: "T not for the type of en Impact Analysis: Impact assessment f release): This CR has [isolate (same release) beca ID could be interpret trigger an Error Indic succeded. ONLY if there is imp This CR has an impa The impact [can] be some isolated implet	The semantics description of the tabular format of The Transaction ID shall be interpreted for its integer value, accoding ("short" or "long")". towards the previous version of the specification (same ed impact] with the previous version of the specification ause within some existing implementations the Transaction ted using not only its value but also its type, and it could cation in some cases when in fact the procedure should have bact: act under [protocol] point of view. considered isolated because the change affects only to mentations that consider both the value and type of rpreting the Transaction ID.
Consequences if not approved:		oved, the interpretation of the Transaction ID would remain lead to multi-vendor interoperability problems.
Clauses affected:	¥ <u>9.2.1.62</u>	
Other specs	# X Other core specific	cations # TS 25.433 v3.7.0 CR-576 (R99) TS 25.423 v3.7.0 CR-528 (R99) TS 25.423 v4.2.0 CR-529 (REL-4)

affected:		Test specifications O&M Specifications	
Other comments:	ж		

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://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9.2.1.62 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure.- Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B control port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transaction ID			CHOICE	The Transaction ID shall be
			INTEGER	interpreted for its integer value,
			(0127) or	not for the type of encoding
			INTEGER	("short" or "long").
			(032767)	

3GPP TSG-RAN3 #25 Meeting Makuhari, Japan, 26 – 30 November 2001

	CHANGE REQUEST				
¥	25.433 CR 578 * rev 1 * Current version: 3.7.0 *				
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	ffects: 第 (U)SIM ME/UE Radio Access Network X Core Network				
Title: ೫	CPCH-related corrections				
Source: ೫	R-WG3				
Work item code: %	TEI Date: # November 2001				
Category: ж	F Release: # R99				
Reason for change	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) C (Functional modification) D (Editorial modification) R (Release 1998) D (Editorial modification) R (Release 1998) R (Release 1998) R (Release 1998) R (Release 1998) R (Release 1999) R (Release 1999) R (Release 1) S (Release 1992) R (Release 1) S (Release 1) R (Re				
Summary of chang	The Semantics Description of the <i>PO2</i> IE in the COMMON TRANSPORT CHANNEL SETUP REQUEST message is detailed to clarify the actual usage of this IE. The <i>PO3</i> IE is removed from the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The description of the <i>DL Power</i> and <i>Power Offset</i> IEs is clarified for the different cases where they are used according to TS 25.214. Impact Analysis: Impact assessment towards the version 3.6.0 of the NBAP specification: This CR has isolated impact on the CPCH functionality. This CR has an impact under protocol point of view (deletion of the <i>PO3</i> IE) and the functional point of view as the usage of the <i>DL Power</i> and <i>Power Offset</i> IEs is clarified for the CPCH case. The impact can be considered isolated because the change affects only the CPCH function (the <i>PO3</i> IE is deleted under the PCPCHes choice tag in the				

	COMMON TRANSPORT CHANNEL SETUP REQUEST message).						
Consequences if not approved:	# If this CR is not approved, the specification will remain incorrect.						
Clauses affected:	¥						
Other specs affected:	X Other core specifications X TS 25.433 v4.2.1 CR 579 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 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE Common Physical Channel To Be Configured	М				YES	ignore
>Secondary CCPCH					-	
>>Secondary CCPCH		1				
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>FDD SCCPCH Offset	M		9.2.2.15	Corresponds to [7]: s- CCPCH,k	_	
>>>DL Scrambling Code	C-PCH		9.2.2.13		_	
>>>FDD DL Channelisation Code Number	Μ		9.2.2.14		-	
>>>TFCS	М		9.2.1.58	For the DL.	-	
>>>Secondary CCPCH Slot Format	М		9.2.2.43		_	
>>>TFCI Presence	C – SlotFormat		9.2.1.57	Refer to TS [7]	_	
>>>Multiplexing Position	М		9.2.2.23		_	
>>>Power Offset Information		1			_	
>>>>PO1	Μ		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>>>PO3	Μ		Power Offset 9.2.2.29	Power offset for the pilot bits	-	
>>>STTD Indicator	М		9.2.2.48		-	
>>>FACH Parameters		0 <ma xnoofF ACHs></ma 			GLOBAL	reject
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		_	
>>>>Max FACH Power	М		DL Power 9.2.1.21	Maximum allowed power on the FACH.	-	
>>>PCH Parameters		01			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>>Transport Format	М		9.2.1.59	For the DL.	_	

Set						
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	M		9.2.1.60		_	
>>>PCH Power	M		DL Power		_	
			9.2.1.21			
>>>>PICH		1			_	
Parameters						
>>>>Common	М		9.2.1.13		-	
Physical Channel						
ID						
>>>>FDD DL	М		9.2.2.14		_	
Channelisation						
Code Number						
>>>>PICH Power	М		9.2.1.49A		-	
>>>>PICH Mode	М		9.2.2.26	Number of	-	
				PI per frame		
>>>>STTD	М		9.2.2.48		_	
Indicator						
>PRACH					_	
>>PRACH		1				
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>Scrambling Code	М		9.2.2.42		_	
Number	101		0.2.2.72			
>>>TFCS	М		9.2.1.58	For the UL.	_	
>>>Preamble Signatures	M		9.2.2.31		_	
>>>Allowed Slot		1 <ma< td=""><td></td><td></td><td>_</td><td></td></ma<>			_	
Format Information		xnoofSl				
		otForm				
		atsPRA				
		CH>				
>>>RACH Slot	М		9.2.2.37		_	
Format						
>>>RACH Sub Channel	М		9.2.2.38		-	
Numbers						
>>>Puncture Limit	М		9.2.1.50	For the UL	_	
>>>Preamble Threshold	М		9.2.2.32		_	
>>>RACH Parameters		1			YES	Reject
>>>Common	М		9.2.1.14		_	
Transport Channel ID						
>>>>Transport Format	М		9.2.1.59	For the UL.	-	
Set						
>>AICH Parameters		1			-	
>>>Common Physical	М		9.2.1.13		-	
Channel ID						
>>>AICH Transmission	М		9.2.2.1		-	
Timing	N 4		0.0.0.4.4			
>>>FDD DL Channelisation	М		9.2.2.14		_	
Code Number	N 4		0.0.0.0			
>>>AICH Power	M		9.2.2.D		_	
>>>STTD Indicator	М		9.2.2.48		_	
>PCPCHes		1			-	
>>CPCH Parameters	N4	1	0.01.14		_	
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>Transport Format Set	М		9.2.1.59	For the UL.		
>>>AP Preamble	M		9.2.1.59 CPCH		—	
Scrambling Code			Scrambling		_	
		1	Jocianioning			

	[]				Г Г	
			Code			
			Number			
			9.2.2.4B			
>>>CD Preamble	Μ		CPCH		-	
Scrambling Code			Scrambling			
			Code			
			Number			
			9.2.2.4B			
>>>TFCS	М		9.2.1.58	For the UL	_	
	0		Preamble	Note: When		
>>>CD Signatures	0				_	
			Signatures	not present,		
			9.2.2.31	all CD		
				signatures		
				are to be		
				used.		
>>>CD Sub Channel			9.2.2.1C		_	
Numbers			0.2.2.			
>>>Puncture Limit	М		9.2.1.50	For the UL	_	
					_	
>>>CPCH UL DPCCH Slot	М		9.2.2.4C	For UL	-	
Format				CPCH		
				message		
				control part		
>>>UL SIR	М		UL SIR		_	
			9.2.2.58			
>>>Initial DL transmission	М		DL Power		_	
Power	IVI		9.2.1.21			
	N.4					
>>>Maximum DL Power	М		DL Power		-	
			9.2.1.21			
>>>Minimum DL Power	Μ		DL Power		-	
			9.2.1.21			
>>>PO2	М		Power	Power offset	_	
			Offset	for the TPC		
			9.2.2.29	bits <u>relative</u>		
			0.2.2.20	to the pilot		
			_	bits.		
>>>PO3	H		Power	Power offset	-	
			Offset	for the pilot		
				for the phot		
			9.2.2.29	bits		
>>>FDD TPC DL Step Size	M			-	_	
	M		9.2.2.29 9.2.2.16	-		
>>>N_Start_Message	М		9.2.2.29 9.2.2.16 9.2.2.23C	-	-	
>>>N_Start_Message >>>N_EOT	M M		9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A	-		
>>>N_Start_Message >>>N_EOT >>>Channel Assignment	М		9.2.2.29 9.2.2.16 9.2.2.23C	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication	M M M		9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total	M M		9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate	M M M		9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total	M M M	1 <ma< td=""><td>9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D</td><td>-</td><td>-</td><td></td></ma<>	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate	M M M	1 <ma xnoofP</ma 	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel	M M M		9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel	M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information	M M M	xnoofP	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>Common Physical	M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D	-	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID	M M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A 9.2.2.4A		-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID >>>>CPCH Scrambling	M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A	For UL	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID	M M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A 9.2.2.4A		-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID >>>>CPCH Scrambling Code Number	M M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A 9.2.2.4A	bits For UL PCPCH	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID >>>>CPCH Scrambling	M M M M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A 9.2.2.4A 9.2.2.4A	bits For UL PCPCH For DL	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID >>>>CPCH Scrambling Code Number	M M M M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A 9.2.2.4A 9.2.2.4A	bits For UL PCPCH For DL CPCH	-	
>>>N_Start_Message >>>N_EOT >>>Channel Assignment Indication >>>CPCH Allowed Total Rate >>>PCPCH Channel Information >>>>Common Physical Channel ID >>>>CPCH Scrambling Code Number	M M M M M M	xnoofP CPCHs	9.2.2.29 9.2.2.16 9.2.2.23C 9.2.2.23A 9.2.2.1D 9.2.2.4A 9.2.2.4A 9.2.2.4A	bits For UL PCPCH For DL	-	

	-		-			
Channelisation Code				CPCH		
Number				message		
				part		
>>>PCP Length	М		9.2.2.24A		_	
>>>UCSM Information	C-NCA	1			_	
>>>>Min UL	M		9.2.2.22		_	
Channelisation Code	IVI		5.2.2.22		_	
Length						
>>>>NF_max	Μ		9.2.2.23B		-	
>>>>Channel		0 <ma< td=""><td></td><td></td><td>-</td><td></td></ma<>			-	
Request Parameters		xAPSig				
		Num>				
>>>>AP Preamble	М		9.2.2.1A		_	
Signature			0.2.2.17			
	0		0.0.04D			
>>>>AP Sub	0		9.2.2.1B		-	
Channel Number						
>>>VCAM Mapping	C-CA	1 <ma< td=""><td></td><td>Refer to TS</td><td>_</td><td></td></ma<>		Refer to TS	_	
Information		xnoofL		[18]		
		en>				
>>>>Min UL	М		9.2.2.22		_	
Channelisation Code	1					
Length						
	1.4		0.0.0.000			
>>>NF_max	М		9.2.2.23B		_	
>>>>Max Number of	М		9.2.2.20A		_	
PCPCHes						
>>>SF Request		1 <ma< td=""><td></td><td></td><td>_</td><td></td></ma<>			_	
Parameters		xAPSig				
		Num>				
>>>>AP Preamble	М	Numz	9.2.2.1A			
	IVI		9.2.2.1A		_	
Signature						
>>>>AP Sub Channel	0		9.2.2.1B		-	
Number						
>>>AP-AICH Parameters		1			_	
>>>Common Physical	М		9.2.1.13		_	
Channel ID			0.20			
>>>FDD DL	М		9.2.2.14		_	
	IVI		9.2.2.14		_	
Channelisation Code						
Number			ļ			
>>>AP-AICH Power	М		AICH		_	
			Power			
			9.2.2.D			
>>>CSICH Power	М		AICH	For CSICH	_	
	1		Power	bits at end of		
			9.2.2.D			
			9.2.2.D	AP-AICH		
				slot		
>>>STTD Indicator	М		9.2.2.48		_	
>>>CD/CA-ICH		1			_	
Parameters						
>>>Common Physical	М		9.2.1.13		_	
Channel ID	1					
	N4		0.0.0.44			
>>>>FDD DL	М		9.2.2.14		_	
Channelisation Code						
Number			ļ			
>>>CD/CA-ICH Power	М		AICH		_	
			Power			
			9.2.2.D			
>>>STTD Indicator	М		9.2.2.48		_	
	171		3.2.2.40			

Condition	Explanation
SlotFormat	The IE shall be present if the Secondary CCPCH Slot
	Format IE is set to any of the values from 8 to 17.
CA	The IE shall be present if the Channel Assignment
	Indication IE is set to "CA Active".
NCA	The IE shall be present if the Channel Assignment
	Indication IE is set to "CA Inactive".
PCH	The IE shall be present if the PCH parameters IE is
	not present.

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

9.2.1.21 DL Power

The DL Power IE indicates a power level relative to the [FDD-primary CPICH power] [TDD-primary CCPCH power] configured in a cell. [FDD-If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols]. [FDD-If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols].

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

9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPDCH or a Secondary CCPCH data field or a DL-DPCCH for CPCH pilot field.

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

9.3.3 PDU Definitions

UNCHANGED TEXT IS OMITTED

_ _ -- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD CommonTransportChannelSetupRequestFDD ::= SEQUENCE { {{CommonTransportChannelSetupRequestFDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{CommonTransportChannelSetupRequestFDD-Extensions}} protocolExtensions OPTIONAL, . . . } CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-C-ID PRESENCE CRITICALITY reject TYPE C-ID mandatory }| { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }| { ID id-CommonPhysicalChannelType-CTCH-SetupRqstFDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-SetupRqstFDD PRESENCE mandatory }, . . . CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE { secondary-CCPCH-parameters Secondary-CCPCH-CTCH-SetupRqstFDD, pRACH-parameters PRACH-CTCH-SetupRqstFDD, pCPCHes-parameters PCPCH-CTCH-SetupRqstFDD, . . . ļ Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE { commonPhysicalChannelID CommonPhysicalChannelID, fdd-S-CCPCH-Offset FDD-S-CCPCH-Offset, DL-ScramblingCode OPTIONAL, dl-ScramblingCode -- This IE shall be present if the PCH parameters IE is not present fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber, TFCS, tFCS secondary-CCPCH-SlotFormat SecondaryCCPCH-SlotFormat, tFCI-Presence TFCI-Presence OPTIONAL, -- This IE shall be present only if the Secondary CCPCH Slot Format IE is set to any of the values from 8 to 17 multiplexingPosition MultiplexingPosition, powerOffsetInformation PowerOffsetInformation-CTCH-SetupRqstFDD,

3GPP TS 25.433 v3.7.0 (2001-09)

```
sTTD-Indicator
                                            STTD-Indicator,
    fACH-Parameters
                                            FACH-ParametersList-CTCH-SetupRgstFDD
                                                                                         OPTIONAL,
    pCH-Parameters
                                            PCH-Parameters-CTCH-SetupRqstFDD
                                                                                         OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset.
   iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
FACH-ParametersList-CTCH-SetupRqstFDD ::= Protocolle-Single-Container {{ FACH-ParametersListles-CTCH-SetupRqstFDD }}
FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory
}
FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
                                        CommonTransportChannelID,
    commonTransportChannelID
    transportFormatSet
                                        TransportFormatSet,
    toAWS
                                        TOAWS,
    toAWE
                                        TOAWE .
   maxFACH-Power
                                        DL-Power,
                                        ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PCH-Parameters-CTCH-SetupRgstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRgstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
}
PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
    transportFormatSet
                                        TransportFormatSet,
```

3GPP TS 25.433 v3.7.0 (2001-09)

	toAWS toAWE pCH-Power pICH-Parameters	ToAWS, ToAWE, DL-Power, PICH-Parameters-CTCH-SetupRqstFDD,
l	iE-Extensions	ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
l		
PCI	H-ParametersItem-CTCH-SetupRqstFDD-Ex	TIES NBAP-PROTOCOL-EXTENSION ::= {
}		
PIC	CH-Parameters-CTCH-SetupRqstFDD ::= S commonPhysicalChannelID fdd-dl-ChannelisationCodeNumber pICH-Power pICH-Mode sTTD-Indicator iE-Extensions	EQUENCE { CommonPhysicalChannelID, FDD-DL-ChannelisationCodeNumber, PICH-Power, PICH-Mode, STTD-Indicator, ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
}		
PIC	CH-Parameters-CTCH-SetupRqstFDD-ExtIE 	s NBAP-PROTOCOL-EXTENSION ::= {
PR/	ACH-CTCH-SetupRqstFDD ::= SEQUENCE { commonPhysicalChannelID scramblingCodeNumber tFCS preambleSignatures allowedSlotFormatInformation rACH-SubChannelNumbers ul-punctureLimit preambleThreshold rACH-Parameters aICH-Parameters iE-Extensions 	CommonPhysicalChannelID, ScramblingCodeNumber, TFCS, PreambleSignatures, AllowedSlotFormatInformationList-CTCH-SetupRqstFDD, RACH-SubChannelNumbers, PunctureLimit, PreambleThreshold, RACH-Parameters-CTCH-SetupRqstFDD, AICH-Parameters-CTCH-SetupRqstFDD, ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
}		
PR/	ACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP	-PROTOCOL-EXTENSION ::= {
}		
	lowedSlotFormatInformationList-CTCH-S tupRqstFDD	SetupRqstFDD ::= SEQUENCE (SIZE (1 maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
Al	lowedSlotFormatInformationItem-CTCH-S rACHSlotFormat iE-Extensions OPTIONAL,	<pre>letupRqstFDD ::= SEQUENCE { RACH-SlotFormat, ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs} }</pre>

. . .

```
}
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}
RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE RACH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
}
RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                                 CommonTransportChannelID,
    transportFormatSet
                                                 TransportFormatSet,
                                                 ProtocolExtensionContainer { { RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
 }
RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    aICH-TransmissionTiming
                                                 AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    aICH-Power
                                                 AICH-Power,
    sTTD-Indicator
                                                 STTD-Indicator,
    iE-Extensions
                                                 ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PCPCH-CTCH-SetupRgstFDD ::= SEQUENCE
    cPCH-Parameters
                                    CPCH-Parameters-CTCH-SetupRqstFDD,
                                    ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                OPTIONAL,
    . . .
}
PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                    CommonTransportChannelID,
    transportFormatSet
                                    TransportFormatSet,
    aPPreambleScramblingCode
                                    CPCHScramblingCodeNumber,
    cDPreambleScramblingCode
                                    CPCHScramblingCodeNumber,
```

3GPP TS 25.433 v3.7.0 (2001-09)

```
tFCS
                                     TFCS,
    cDSignatures
                                     PreambleSignatures
                                                                 OPTIONAL,
    cDSubChannelNumbers
                                     CDSubChannelNumbers
                                                                 OPTIONAL.
    punctureLimit
                                     PunctureLimit,
    cPCH-UL-DPCCH-SlotFormat
                                     CPCH-UL-DPCCH-SlotFormat,
    uL-SIR
                                    UL-SIR,
    initialDL-transmissionPower
                                     DL-Power,
    maximumDLPower
                                     DL-Power,
    minimumDLPower
                                    DL-Power,
    pO2-ForTPC-Bits
                                     PowerOffset,
   pO3-ForPilotBits
                                     PowerOffset,
    fDD-TPC-DownlinkStepSize
                                     FDD-TPC-DownlinkStepSize,
    nStartMessage
                                    NStartMessage,
    nEOT
                                    NEOT.
    channel-Assignment-Indication
                                    Channel-Assignment-Indication,
    cPCH-Allowed-Total-Rate
                                     CPCH-Allowed-Total-Rate,
                                     PCPCHChannelInformationList-CTCH-SetupRqstFDD,
    pCPCHChannelInfomation
                                    VCAMMapping-InformationList-CTCH-SetupRgstFDD
    vCAMMapping-Information
                                                                                          OPTIONAL,
    -- this IE shall be present if the Channel Assignment Indication IE is set to "CA Active" --
    aP-AICH-Parameters
                                     AP-AICH-Parameters-CTCH-SetupRqstFDD,
    cDCA-ICH-Parameters
                                     CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
                                     ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                      OPTIONAL.
    . . .
CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PCPCHChannelInformationList-CTCH-SetupRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF PCPCHChannelInformationItem-CTCH-SetupRgstFDD
PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                         CommonPhysicalChannelID,
    cPCHScramblingCodeNumber
                                        CPCHScramblingCodeNumber,
    dL-ScramblingCode
                                        DL-ScramblingCode,
                                        FDD-DL-ChannelisationCodeNumber,
    fdd-dl-ChannelisationCodeNumber
    pCP-Length
                                        PCP-Length,
    uCSM-Information
                                        UCSM-Information-CTCH-SetupRqstFDD
                                                                                  OPTIONAL,
    -- this IE shall be present if the Channel Assignment Indication IE is set to "CA Inactive" --
    iE-Extensions
                                        ProtocolExtensionContainer { { PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength
                                        MinUL-ChannelisationCodeLength,
    nFmax
                                        NFmax,
                                        ChannelRequestParametersList-CTCH-SetupRqstFDD
    channelRequestParameters
                                                                                              OPTIONAL,
    iE-Extensions
                                         ProtocolExtensionContainer { { UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
```

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

3GPP TS 25.433 v3.7.0 (2001-09)

CR page 16

```
iE-Extensions
                                                ProtocolExtensionContainer { { AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
}
AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CDCA-ICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                                FDD-DL-ChannelisationCodeNumber,
    cDCA-ICH-Power
                                                AICH-Power,
    sTTD-Indicator
                                                STTD-Indicator,
   iE-Extensions
                                                ProtocolExtensionContainer { { CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
}
CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

UNCHANGED TEXT IS OMITTED

3GPP TSG-RAN3 #25 Meeting Makuhari, Japan, 26 – 30 November 2001

CHANGE REQUEST								
¥	25.433 CR 579 # rev 1 # Current version: 4.2.1 #							
For HELP on using 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								
<i>Title:</i> ដ	CPCH-related corrections							
Source: ೫	R-WG3							
Work item code: ℜ	TEI Date: # November 2001							
Category: ೫	A Release: # REL-4							
Reason for change	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 1998) 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) e: # In order to complete the cleaning process requested by RAN, tdoc R1-01-1251 was submitted at RAN1 #22 and approved. In this CR, several corrections have been made on the DL Power Control for channels supporting CPCH. There are only 3 fields for the DL-DPCCH for CPCH: pilot, TPC and CCC. The power of the CCC field is the same as the power of the Pilot field. It is thus clear that there is only one Power Offset needed whereas there are currently 2 such IEs in NBAP. This is defined by the following sentence in the CR 218 on TS 25.214: "The TPC field of the DPCCH is offset relative to the pilot by PO2dB." The NBAP specification should be aligned. Furthermore, the IE description for the <i>DL Power</i> and the <i>Power Offset</i> IEs should be updated to reflect its use in the context of the C							
Summary of chang	 The Semantics Description of the PO2 IE in the COMMON TRANSPORT CHANNEL SETUP REQUEST message is detailed to clarify the actual usage of this IE. The PO3 IE is removed from the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The description of the DL Power and Power Offset IEs is clarified for the different cases where they are used according to TS 25.214. Impact Analysis: Impact assessment towards the version 4.1.0 of the NBAP specification: This CR has isolated impact on the CPCH functionality. This CR has an impact under protocol point of view (deletion of the PO3 IE) and the functional point of view as the usage of the DL Power and Power Offset IEs is clarified for the CPCH case. The impact can be considered isolated because the change affects only the CPCH function (the PO3 IE is deleted under the PCPCHes choice tag in the 							

	COMMON TRANSPORT CHANNEL SETUP REQUEST message).							
Consequences if not approved:	If this CR is not approved, the specification will remain incorrect.							
Clauses affected:	ж							
Other specs affected:	X Other core specifications X TS 25.433 v3.7.0 CR 578 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.

9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE Common Physical Channel To Be Configured	М				YES	ignore
>Secondary CCPCH					_	
>>Secondary CCPCH		1				
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>FDD SCCPCH Offset	M		9.2.2.15	Corresponds to [7]: _S . CCPCH,k	_	
>>>DL Scrambling Code	C-PCH		9.2.2.13		_	
>>>FDD DL Channelisation Code Number	Μ		9.2.2.14		-	
>>>TFCS	М		9.2.1.58	For the DL.	_	
>>>Secondary CCPCH Slot Format	М		9.2.2.43		_	
>>>TFCI Presence	C – SlotFormat		9.2.1.57	Refer to TS [7]	_	
>>>Multiplexing Position	М		9.2.2.23		_	
>>>Power Offset Information		1			_	
>>>>PO1	Μ		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>>>PO3	Μ		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>>>STTD Indicator	М		9.2.2.48		_	
>>>FACH Parameters		0 <ma xnoofF ACHs></ma 			GLOBAL	reject
>>>Common Transport Channel ID	М		9.2.1.14		_	
>>>>Transport Format Set	М		9.2.1.59	For the DL.	-	
>>>ToAWS	М	1	9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		_	
>>>>Max FACH Power	М		DL Power 9.2.1.21	Maximum allowed power on the FACH.	-	
>>>PCH Parameters		01	1		YES	reject
>>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>>Transport Format	М	1	9.2.1.59	For the DL.	_	

Set						
>>>ToAWS	М		9.2.1.61		_	
>>>>ToAWE	M		9.2.1.60		_	
>>>PCH Power	М		DL Power		-	
			9.2.1.21			
>>>>PICH Parameters		1			_	
>>>>Common Physical Channel ID	Μ		9.2.1.13		-	
>>>>FDD DL Channelisation Code Number	Μ		9.2.2.14		_	
>>>>PICH Power	М		9.2.1.49A		_	
>>>>PICH Mode	М		9.2.2.26	Number of PI per frame	-	
>>>>STTD Indicator	М		9.2.2.48		_	
>PRACH					-	
>>PRACH		1				
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>Scrambling Code Number	М		9.2.2.42		_	
>>>TFCS	М		9.2.1.58	For the UL.	-	
>>>Preamble Signatures	М		9.2.2.31		-	
>>>Allowed Slot Format Information		1 <ma xnoofSl otForm atsPRA CH></ma 			_	
>>>RACH Slot Format	М		9.2.2.37		_	
>>>RACH Sub Channel Numbers	М		9.2.2.38		_	
>>>Puncture Limit	М		9.2.1.50	For the UL	-	
>>>Preamble Threshold	М		9.2.2.32		_	
>>>RACH Parameters		1			YES	Reject
>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>>Transport Format Set	М		9.2.1.59	For the UL.	_	
>>AICH Parameters		1			-	
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>AICH Transmission Timing	М		9.2.2.1		_	
>>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>>AICH Power	М		9.2.2.D		-	
>>>STTD Indicator	М	ļ	9.2.2.48		-	
>PCPCHes					-	
>>CPCH Parameters		1			-	
>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>Transport Format Set	М		9.2.1.59	For the UL.	-	
>>>AP Preamble	Μ		CPCH		-	
Scrambling Code			Scrambling			

	1					
			Code			
			Number			
			9.2.2.4B			
>>>CD Preamble	М		CPCH		_	
Scrambling Code			Scrambling			
Columbing Code			Code			
			Number			
			9.2.2.4B			
>>>TFCS	Μ		9.2.1.58	For the UL	_	
>>>CD Signatures	0		Preamble	Note: When	_	
			Signatures	not present,		
			9.2.2.31	all CD		
			0.2.2.01	signatures		
				-		
				are to be		
				used.		
>>>CD Sub Channel			9.2.2.1C		_	
Numbers						
>>>Puncture Limit	М		9.2.1.50	For the UL	_	
>>>CPCH UL DPCCH Slot	M		9.2.2.4C	For UL		
			3.2.2.40		_	
Format				CPCH		
				message		
				control part		
>>>UL SIR	Μ		UL SIR		_	
			9.2.1.67A			
>>>Initial DL transmission	М		DL Power			
Power	101		9.2.1.21			
>>>Maximum DL Power	М		DL Power		-	
			9.2.1.21			
>>>Minimum DL Power	Μ		DL Power		_	
			9.2.1.21			
>>>PO2	М		Power	Power offset	_	
			Offset	for the TPC		
			9.2.2.29	bits relative		
				to the pilot		
				bits.		
>>>PO3	M		Power	Power offset	-	
			Offset	for the pilot		
			9.2.2.29	bits		
>>>FDD TPC DL Step Size	М		9.2.2.16	bito	_	
· · · · · · · · · · · · · · · · · · ·						
>>>N_Start_Message	M		9.2.2.23C		—	
>>>N_EOT	М		9.2.2.23A		_	
>>>Channel Assignment	М		9.2.2.1D		-	
Indication						
>>>CPCH Allowed Total	М		9.2.2.4A		_	
Rate						
>>>PCPCH Channel		1				
		1 <ma< td=""><td></td><td></td><td>—</td><td></td></ma<>			—	
Information		xnoofP				
		CPCHs				
		>				
>>>Common Physical	М		9.2.1.13		_	
Channel ID			_			
>>>CPCH Scrambling	М		9.2.2.4B	For UL		
-			J.Z.Z.4D		_	
Code Number				PCPCH		
>>>>DL Scrambling Code	М		9.2.2.13	For DL	—	
				CPCH		
				message		
				part		
	М		02214			
>>>>FDD DL	М	1	9.2.2.14	For DL	-	

Channelisation Code				СРСН		
Number						
Number				message		
>>>PCP Length	М		9.2.2.24A	part		
>>>UCSM Information	C-NCA	1	9.2.2.24A			
>>>>Min UL	M	/	9.2.2.22			
Channelisation Code Length			9.2.2.22			
>>>>NF_max	М		9.2.2.23B		_	
>>>>Channel Request Parameters		0 <ma xAPSig Num></ma 			-	
>>>>AP Preamble Signature	М		9.2.2.1A		-	
>>>>AP Sub Channel Number	0		9.2.2.1B		_	
>>>VCAM Mapping Information	C-CA	1 <ma xnoofL en></ma 		Refer to TS [18]	-	
>>>>Min UL Channelisation Code Length	М		9.2.2.22		-	
>>>>NF_max	М		9.2.2.23B		_	
>>>>Max Number of PCPCHes	М		9.2.2.20A		-	
>>>>SF Request Parameters		1 <ma xAPSig Num></ma 			_	
>>>>AP Preamble Signature	М		9.2.2.1A		-	
>>>>AP Sub Channel Number	0		9.2.2.1B		-	
>>>AP-AICH Parameters		1			-	
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>FDD DL Channelisation Code Number	М		9.2.2.14		-	
>>>AP-AICH Power	М		AICH Power 9.2.2.D		-	
>>>>CSICH Power	М		AICH Power 9.2.2.D	For CSICH bits at end of AP-AICH slot	_	
>>>STTD Indicator	М		9.2.2.48		Ι	
>>>CD/CA-ICH Parameters		1			-	
>>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>>FDD DL Channelisation Code Number	Μ		9.2.2.14		-	
>>>>CD/CA-ICH Power	М		AICH Power 9.2.2.D		_	
>>>STTD Indicator	М		9.2.2.48		_	1

Condition	Explanation
SlotFormat	The IE shall be present if the Secondary CCPCH Slot
	Format IE is set to any of the values from 8 to 17.
CA	The IE shall be present if the Channel Assignment
	Indication IE is set to "CA Active".
NCA	The IE shall be present if the Channel Assignment
	Indication IE is set to "CA Inactive".
PCH	The IE shall be present if the PCH parameters IE is
	not present.

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

9.2.1.21 DL Power

The DL Power IE indicates a power level relative to the [FDD-primary CPICH power] [TDD-primary CCPCH power] configured in a cell [FDD-If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols]. [FDD-If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols].

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

9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPDCH or a Secondary CCPCH data field or a DL-DPCCH for CPCH pilot field.

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

9.3.3 PDU Definitions

UNCHANGED TEXT IS OMITTED

COMMON TRANSPORT CHANNEL SETUP REQUEST FDD _ _ _ _ CommonTransportChannelSetupRequestFDD ::= SEQUENCE { {{CommonTransportChannelSetupRequestFDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelSetupRequestFDD-Extensions}} OPTIONAL, . . . } CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= { ID id-C-ID CRITICALITY C-ID reject TYPE PRESENCE mandatory }| id-ConfigurationGenerationID { ID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }| { ID id-CommonPhysicalChannelType-CTCH-SetupRqstFDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-PRESENCE mandatory }, SetupRqstFDD . . . CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE { secondary-CCPCH-parameters Secondary-CCPCH-CTCH-SetupRqstFDD, pRACH-parameters PRACH-CTCH-SetupRqstFDD, pCPCHes-parameters PCPCH-CTCH-SetupRqstFDD, . . . Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE { commonPhysicalChannelID CommonPhysicalChannelID, fdd-S-CCPCH-Offset FDD-S-CCPCH-Offset, dl-ScramblingCode DL-ScramblingCode OPTIONAL, -- This IE shall be present if the PCH parameters IE is not present fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber, tFCS TFCS, secondary-CCPCH-SlotFormat SecondaryCCPCH-SlotFormat, tFCI-Presence TFCI-Presence OPTIONAL, -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17 multiplexingPosition MultiplexingPosition,

```
PowerOffsetInformation-CTCH-SetupRqstFDD,
    powerOffsetInformation
    sTTD-Indicator
                                            STTD-Indicator.
    fACH-Parameters
                                            FACH-ParametersList-CTCH-SetupRgstFDD
                                                                                         OPTIONAL.
    pCH-Parameters
                                            PCH-Parameters-CTCH-SetupRqstFDD
                                                                                         OPTIONAL,
                                            ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL.
    . . .
Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
   pO1-ForTFCI-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset,
   iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
FACH-ParametersList-CTCH-SetupRgstFDD ::= ProtocollE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRgstFDD }}
FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD CRITICALITY reject
                                                                            TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory }
FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
    transportFormatSet
                                        TransportFormatSet,
    toAWS
                                        TOAWS,
                                        TOAWE,
    toAWE
    maxFACH-Power
                                        DL-Power,
                                        ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
}
PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                        CommonTransportChannelID,
```

```
transportFormatSet
                                         TransportFormatSet,
    t.oAWS
                                         TOAWS,
    toAWE
                                         TOAWE.
    pCH-Power
                                         DL-Power,
    pICH-Parameters
                                             PICH-Parameters-CTCH-SetupRgstFDD,
    iE-Extensions
                                         ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    pICH-Power
                                                 PICH-Power,
    pICH-Mode
                                                 PICH-Mode,
    sTTD-Indicator
                                                 STTD-Indicator,
    iE-Extensions
                                                 ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PRACH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    scramblingCodeNumber
                                             ScramblingCodeNumber,
    tFCS
                                                 TFCS,
    preambleSignatures
                                                 PreambleSignatures,
    allowedSlotFormatInformation
                                                 AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
    rACH-SubChannelNumbers
                                                 RACH-SubChannelNumbers,
    ul-punctureLimit
                                                 PunctureLimit,
    preambleThreshold
                                                 PreambleThreshold,
                                                 RACH-Parameters-CTCH-SetupRqstFDD,
    rACH-Parameters
                                                 AICH-Parameters-CTCH-SetupRgstFDD,
    aICH-Parameters
    iE-Extensions
                                                 ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRgstFDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
SetupRqstFDD
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    rACHSlotFormat
                                                 RACH-SlotFormat,
```

```
ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
AllowedSlotFormatInformationItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}
RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE RACH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
}
RACH-ParametersItem-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonTransportChannelID
                                                 CommonTransportChannelID,
    transportFormatSet
                                                 TransportFormatSet,
    iE-Extensions
                                                 ProtocolExtensionContainer { { RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AICH-Parameters-CTCH-SetupRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    aICH-TransmissionTiming
                                                 AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    aICH-Power
                                                 AICH-Power,
    sTTD-Indicator
                                                 STTD-Indicator,
    iE-Extensions
                                                 ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    cPCH-Parameters
                                     CPCH-Parameters-CTCH-SetupRqstFDD,
                                    ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
}
PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                    CommonTransportChannelID,
    transportFormatSet
                                    TransportFormatSet,
```

```
aPPreambleScramblingCode
                                     CPCHScramblingCodeNumber,
    cDPreambleScramblingCode
                                     CPCHScramblingCodeNumber,
    tFCS
                                     TFCS.
    cDSignatures
                                     PreambleSignatures
                                                                 OPTIONAL,
    cDSubChannelNumbers
                                     CDSubChannelNumbers
                                                                 OPTIONAL.
    punctureLimit
                                     PunctureLimit,
    cPCH-UL-DPCCH-SlotFormat
                                     CPCH-UL-DPCCH-SlotFormat,
    uL-SIR
                                    UL-SIR,
    initialDL-transmissionPower
                                    DL-Power,
    maximumDLPower
                                    DL-Power,
    minimumDLPower
                                    DL-Power,
    pO2-ForTPC-Bits
                                     PowerOffset,
  - pO3-ForPilotBits
                                    PowerOffset,
    fDD-TPC-DownlinkStepSize
                                     FDD-TPC-DownlinkStepSize,
    nStartMessage
                                    NStartMessage,
    nEOT
                                    NEOT,
    channel-Assignment-Indication
                                    Channel-Assignment-Indication,
    cPCH-Allowed-Total-Rate
                                     CPCH-Allowed-Total-Rate,
    pCPCHChannelInfomation
                                     PCPCHChannelInformationList-CTCH-SetupRqstFDD,
    vCAMMapping-Information
                                     VCAMMapping-InformationList-CTCH-SetupRqstFDD
                                                                                          OPTIONAL,
    -- this IE shall be present if the Channel Assignment Indication is set to "CA Active" --
                                    AP-AICH-Parameters-CTCH-SetupRqstFDD,
    aP-AICH-Parameters
                                     CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
    cDCA-ICH-Parameters
                                     ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PCPCHChannelInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF PCPCHChannelInformationItem-CTCH-SetupRqstFDD
PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
                                         CommonPhysicalChannelID,
    commonPhysicalChannelID
    cPCHScramblingCodeNumber
                                        CPCHScramblingCodeNumber,
    dL-ScramblingCode
                                        DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber
                                        FDD-DL-ChannelisationCodeNumber,
    pCP-Length
                                        PCP-Length,
    uCSM-Information
                                        UCSM-Information-CTCH-SetupRqstFDD
                                                                                  OPTIONAL,
    -- this IE shall be present if the Channel Assignment Indication is equal to "CA Inactive" --
                                         ProtocolExtensionContainer { { PCPCHChannelInformationItem-CTCH-SetupRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength
                                        MinUL-ChannelisationCodeLength,
    nFmax
                                        NFmax,
    channelRequestParameters
                                         ChannelRequestParametersList-CTCH-SetupRqstFDD
                                                                                              OPTIONAL,
```

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

CR page 16

```
cSICH-Power
                                                 AICH-Power,
    sTTD-Indicator
                                                 STTD-Indicator,
    iE-Extensions
                                                 ProtocolExtensionContainer { { AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
}
AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CDCA-ICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    cDCA-ICH-Power
                                                 AICH-Power,
    sTTD-Indicator
                                                 STTD-Indicator,
   iE-Extensions
                                                 ProtocolExtensionContainer { { CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
}
CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

UNCHANGED TEXT IS OMITTED

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26-30 November 2001

R3-013590

CHANGE REQUEST							
ж	25.433 CR 581 [#] ev - [#] Current version: 3.7.0 [#]						
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	affects: # (U)SIM ME/UE Radio Access Network X Core Network						
<i>Title:</i> ដ	Correction of S field length						
Source: ೫	R-WG3						
Work item code: ೫	TEI Date: # 27-11-2001						
Category: ₩	FRelease: %R99Use one of the following categories:Use one of the following releases:F (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	a: # In TS25 433 80 1 36 1 "EDD Message" for Padia Link Setup Request the						
Reason for change	 In TS25.433, §9.1.36.1 "FDD Message" for Radio Link Setup Request, the conditional IE "S Field Length" in "UL DPCH Information" IE references to §9.2.2.40 in the same TS. The IE "S Field Length" is conditional and will exist when IE "UL DPCCH Slot Format" indicates a slot format with one or two FBI bits, which is the case when IE "UL DPCCH Slot Format" bears a value of 2 or higher (see Table 2 in TS25.211, §5.2.1). Now, §5.2.1 in TS25.211 indicates: "The S field is used for SSDT signalling, while the D field is used for closed loop mode transmit diversity signalling. The S field consists of 0, 1 or 2 bits." The same section also contains the sentence: "When NFBI is 2bits, S field is Obit and D field is 1 bit, left side field shall be filled with "1" and right side field shall be D field." Then how does NBAP signal an NFBI equal to 2 bits with a zero-bit S field, which is a valid constellation, since in TS25.433, §9.2.2.40 the "S Field Length" IE type is indicated as "ENUMERATED (1,2,)". At the origin, the intention was to always fill the 2 FBI bits by the S and D fields. But it was recently agreed in RAN WG1 to leave the possibility not to fill the FBI bits in order to allow keeping the same slot format while changing the options like activating SSDT or not. 						
Summary of chang	 The "S Field Length" IE in RL Setup message is changed from conditional to optional. This also aligns NBAP to RNSAP where S Field Length IE is already optional in the Radio Link Setup message. A procedural text is added in the RL Setup section in order to specify the conditions for using S-Field Length IE Impact Analysis: This CR has an isolated impact with the previous version of the specification (same release) since it allows to signal a valid combination that is not possible 						

	with the previous version of the specification. There is no impact to others specifications.
Consequences if not approved:	If this CR is not approved, it would not be possible for NBAP to signal the case where NFBI equal to 2 bits with a zero-bit S field, which is a valid combination.
Clauses affected:	% 8.2.17, 9.1.36.1
Other specs	X Other core specifications X 25.433 v4.2.1 CR582
affected:	Test specifications
	O&M Specifications
Other comments:	æ

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

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

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation





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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Info* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Info* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

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

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

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

DSCH(s):

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

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

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

[TDD – USCH(s)]:

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

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

Physical Channels Handling:

[FDD - Compressed Mode]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.] [FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

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

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

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

[FDD - DL Code Information]:

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

General:

[FDD – If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

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

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

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

Radio Link Handling:

[FDD - Transmit Diversity]:

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

DL Power Control:

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE=0 and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[TDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until the UL synchronisation on the Uu is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the *DL Time Slot ISCP Info* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

General:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE and the *S-Field* <u>Length IE</u>, the Node B shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and *SSDT Cell Identity* IE and *SSDT Cell Identity* Length IE.]

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

[FDD - Radio Link Set Handling]:

[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 Node B together with the value of the *DL TPC pattern 01 count* IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

Response Message:

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

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

8.2.17.3 Unsuccessful Operation



Figure 25: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

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

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

Typical cause values are as follows:

Radio Network Layer Cause

- RL Already Activated/allocated
- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Invalid CM Settings
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported

Transport Layer Cause

- Transport Resources Unavailable

Protocol Cause

Semantic error

Miscellaneous Cause

- O&M Intervention

- Control processing overload
- HW failure

8.2.17.4 Abnormal Conditions

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

Next change

9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	reject
Transaction ID	М		9.2.1.62		_	
UL DPCH Information		1			YES	reject
>UL Scrambling Code	М		9.2.2.59		_	
>Min UL Channelisation Code length	М		9.2.2.22		-	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		_	
>puncture Limit	Μ		9.2.1.50	For UL	_	
>TFCS	М		9.2.1.58	for UL	_	
>UL DPCCH Slot Format	Μ		9.2.2.57		_	
> UL SIR Target	М		UL SIR 9.2.2.58		-	
>Diversity mode	М		9.2.2.9		-	
>SSDT cell ID Length	0		9.2.2.45		-	
>S Field Length	C-FBIO		9.2.2.40		_	
DL DPCH Information		1			YES	reject
>TFCS	М		9.2.1.58	For DL	_	
>DL DPCH Slot Format	М		9.2.2.10		_	
>TFCI signalling mode	М		9.2.2.50		_	
>TFCI presence	C- SlotFormat		9.2.1.57		-	
>Multiplexing Position	М		9.2.2.23		_	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		—	
>PDSCH code mapping	C-DSCH		9.2.2.25		—	
>Power Offset Information		1			-	
>>P01	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits	-	
>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	M		9.2.2.18A		_	
>Inner Loop DL PC Status DCH Information	M		9.2.2.18B DCH FDD Information 9.2.2.4D		_ YES	reject
DSCH Information	0		DSCH FDD Information 9.2.2.13B		YES	reject
TFCI2 bearer information	1	01			YES	ignore

>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
RL Information		1 to <maxnoof RLs></maxnoof 			EACH	notify
>RL ID	М		9.2.1.53		-	
>C-ID	М		9.2.1.9		-	
>First RLS Indicator	М		9.2.2.16A		_	
>Frame Offset	М		9.2.1.31		-	
>Chip Offset	М		9.2.2.2		-	
>Propagation Delay	0		9.2.2.35		-	
>Diversity Control Field	C – NotFirstRL		9.2.1.25		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>Initial DL transmission Power	М		DL Power 9.2.1.21	Initial power on DPCH	-	
>Maximum DL power	M		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum DL power	M		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>SSDT Cell Identity	0		9.2.2.44		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53		-	
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Active Pattern Sequence Information	0		9.2.2.A		YES	reject

Condition	Explanation
CodeLen	The IE shall be present if Min UL Channelisation Code Length IE
	equals to 4.
FBI	The IE shall be present if the UL DPCCH Slot Format IE indicates
	a slot format with 1 or 2 FBI bits (see ref.[7]).
NotFirstRL	The IE shall be present if the RL is not the first one in the RL
	Information IE.
DSCH	The IE shall be present if the DSCH Information IE is present.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any
	of the value 12 to 16.
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH
	Information IE is not set to "none".

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

3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26-30 November 2001

R3-013591

	CR-Form-v4
ж	25.433 CR 582 [#] ev - [#] Current version: 4.2.1 [#]
For <u>HELP</u> on us	sing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.
Proposed change a	affects: # (U)SIM ME/UE Radio Access Network X Core Network
Title: ೫	Correction of S field length
Source: ೫	R-WG3
Work item code: #	TEI Date: # 27-11-2001
Category: अ	ARelease: %R4Use one of the following categories:Use one of the following releases:F (correction)2A (corresponds to a correction in an earlier release)R96B (addition of feature),R97C (functional modification of feature)R98D (editorial modification)R99Detailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5
Bosson for change	· for Padia Link Satur Paguast the
Reason for change	 In TS25.433, §9.1.36.1 "FDD Message" for Radio Link Setup Request, the conditional IE "S Field Length" in "UL DPCH Information" IE references to §9.2.2.40 in the same TS. The IE "S Field Length" is conditional and will exist when IE "UL DPCCH Slot Format" indicates a slot format with one or two FBI bits, which is the case when IE "UL DPCCH Slot Format" bears a value of 2 or higher (see Table 2 in TS25.211, §5.2.1). Now, §5.2.1 in TS25.211 indicates: "The S field is used for SSDT signalling, while the D field is used for closed loop mode transmit diversity signalling. The S field consists of 0, 1 or 2 bits." The same section also contains the sentence: "When NFBI is 2bits, S field is Obit and D field is 1bit, left side field shall be filled with "1" and right side field shall be D field." Then how does NBAP signal an NFBI equal to 2 bits with a zero-bit S field, which is a valid constellation, since in TS25.433, §9.2.2.40 the "S Field Length" IE type is indicated as "ENUMERATED (1,2,)". At the origin, the intention was to always fill the 2 FBI bits by the S and D fields. But it was recently agreed in RAN WG1 to leave the possibility not to fill the FBI bits in order to allow keeping the same slot format while changing the options like activating SSDT or not.
Summary of chang	e: # The "S Field Length" IE in RL Setup message is changed from conditional to optional. This also aligns NBAP to RNSAP where S Field Length IE is already optional in the Radio Link Setup message. A procedural text is added in the RL Setup section in order to specify the conditions for using S-Field Length IE. Impact Analysis: This CR has an isolated impact with the previous version of the specification (same release) since it allows to signal a valid combination that is not possible with the previous version of the specification. There is no impact to others

		specifications.				
Consequences if not approved:	ж	If this CR is not approved, it would not be possible for NBAP to signal the case where NFBI equal to 2 bits with a zero-bit S field, which is a valid combination.				
Clauses affected:	ж	8.2.17, 9.1.36.1				
Other specs affected:	ж	X Other core specifications Test specifications O&M Specifications	ж	25.433 v3.7.0 CR581		
Other comments:	ж					

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

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

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mixture of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation





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

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

Transport Channels Handling:

DCH(s):

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

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

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.]

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

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

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

DSCH(s):

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

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

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

[TDD – USCH(s)]:

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

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

Physical Channels Handling:

[FDD – Compressed Mode]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.] [FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

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

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

[FDD – DL Code Information]:

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

General:

[FDD – If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD – If the received *Limited Power Increase* IE is set to 'Used', the 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 *TFCI Signalling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power.]

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

Radio Link Handling:

[FDD – Transmit Diversity]:

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

DL Power Control:

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the 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 – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH and on each Time Slot of the RL until the UL synchronisation on the Uu is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the [3.84Mcps TDD - *DL Time Slot ISCPInfo* IE] or [1.28Mcps TDD - *DL Timeslot ISCP LCR* IE] is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

General:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE and the *S-Field* <u>Length IE</u>, the Node B shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and *SSDT Cell Identity* IE and *SSDT Cell Identity* Length IE.]

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the Node B shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the Node B shall ignore the value in SSDT Cell Identity for EDSCHPC IE]

[FDD – Radio Link Set Handling]:

[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 Node B together with the value of the *DL TPC pattern* 01 count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication context.]

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

Response Message:

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

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

8.2.17.3 Unsuccessful Operation



Figure 25: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

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

Typical cause values are as follows:

Radio Network Layer Cause

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- DPC mode change not supported

Transport Layer Cause

- Transport Resources Unavailable

Miscellaneous Cause

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

8.2.17.4 Abnormal Conditions

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

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

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

Next change

9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	reject
Transaction ID	Μ		9.2.1.62		_	
UL DPCH Information		1			YES	reject
>UL Scrambling Code	М		9.2.2.59		_	
>Min UL Channelisation Code length	M		9.2.2.22		_	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		-	
>puncture Limit	М		9.2.1.50	For UL	_	
>TFCS	М		9.2.1.58	for UL	-	
>UL DPCCH Slot Format	М		9.2.2.57		-	
> UL SIR Target	M		UL SIR 9.2.1.67A		-	
>Diversity mode	М		9.2.2.9		-	
>SSDT cell ID Length	0		9.2.2.45		-	
>S Field Length	C-FBIO		9.2.2.40		-	
>DPC mode	0		9.2.2.13C		YES	reject
DL DPCH Information		1			YES	reject
>TFCS	М		9.2.1.58	For DL	-	
>DL DPCH Slot Format	М		9.2.2.10		-	
>TFCI signalling mode	М		9.2.2.50		-	
>TFCI presence	C- SlotFormat		9.2.1.57		-	
>Multiplexing Position	М		9.2.2.23		_	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		-	
>PDSCH code mapping	C-DSCH		9.2.2.25		-	
>Power Offset Information		1			_	
>>P01	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	-	
>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits	_	
>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	M		9.2.2.18A	<u>_</u>	_	
>Inner Loop DL PC Status DCH Information	M		9.2.2.18B DCH FDD Information 9.2.2.4D		_ YES	reject
DSCH Information	0		9.2.2.4D DSCH FDD Information 9.2.2.13B		YES	reject

TFCI2 bearer information		01			YES	ignore
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
RL Information		1 to <maxnoof RLs></maxnoof 			EACH	notify
>RL ID	М		9.2.1.53		-	
>C-ID	М		9.2.1.9		_	
>First RLS Indicator	М		9.2.2.16A		-	
>Frame Offset	М		9.2.1.31		-	
>Chip Offset	М		9.2.2.2		-	
>Propagation Delay	0		9.2.2.35		-	
>Diversity Control Field	C – NotFirstRL		9.2.1.25		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>Initial DL transmission	М		DL Power 9.2.1.21	Initial power on DPCH	-	
Power	M		DL Power	Maximum		
>Maximum DL power	IVI		9.2.1.21	allowed power on DPCH	_	
>Minimum DL power	M		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>SSDT Cell Identity	0		9.2.2.44		-	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53		-	
>SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.44A		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
DSCH Common Information	0		DSCH FDD Common Information 9.2.2.13D		YES	ignore

Condition	Explanation
CodeLen	The IE shall be present if Min UL Channelisation Code Length IE
	equals to 4.
FBI	The IE shall be present if the UL DPCCH Slot Format IE indicates
	a slot format with 1 or 2 FBI bits (see ref.[7]).
NotFirstRL	The IE shall be present if the RL is not the first one in the RL
	Information IE.
DSCH	The IE shall be present if the DSCH Information IE is present.
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to
	any of the values from 12 to 16.
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH
	Information IE is not set to "none".
EDSCHPC	The IE shall be present if Enhanced DSCH PC IE is present in
	the DSCH Common Information IE.

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