

**TSG RAN Meeting #18**  
**New Orleans, Louisiana, USA, 3 - 6 December, 2002**

**RP-020758**

**Title** CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Add UL SIR\_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD  
**Source** TSG RAN WG3  
**Agenda Item** 7.3.4

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-022304	25.423	4.6.0	4.7.0	REL-4	723	-	F	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	LCRTDD-lublur
R3-022305	25.423	5.3.0	5.4.0	REL-5	724	-	A	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	LCRTDD-lublur
R3-022302	25.433	4.6.0	4.7.0	REL-4	748	-	F	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	LCRTDD-lublur
R3-022303	25.433	5.2.0	5.3.0	REL-5	749	-	A	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	LCRTDD-lublur

## CHANGE REQUEST

⌘ **25.423 CR 723** ⌘ rev **-** ⌘ Current version: **4.6.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD		
<b>Source:</b>	⌘ RAN WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ 24/10/2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ In 1.28 Mcps TDD, uplink power control for DPCH and PUSCH is performed by closed loop Power Control according TS 25.221, section 6.2.2.2 - similar as in the FDD mode. The Node B needs to receive the UL SIR Target values from the SRNC; and therefore the <i>UL SIR Target</i> IE should be added to respective NBAP and RNSAP messages.
	In TS25.423 section 9.1.11.2, IE "UL SIR Target" has already been added in Synchronized RL Reconfiguration procedure for 1.28Mcps TDD. It should also be possible to be reconfigured in Unsynchronized RL Reconfiguration procedure.
<b>Summary of change:</b>	⌘ The IE "UL SIR Target" is added as an optional elements to the UL CCTrCH to Modify IEs in the RADIO LINK RECONFIGURATION REQUEST (TDD) message. Procedure text is added to describe the application of the UL SIR Target IE in the 1.28Mcps TDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects only the Unsynchronized RL Reconfiguration procedure for 1.28Mcps TDD.
<b>Consequences if not approved:</b>	⌘ If this document is not approved, the Uplink close loop power control specification for 1.28Mcps will be inconsistent.

<b>Clauses affected:</b>	⌘ 8.3.7.2, 9.1.16.2, 9.3.3						
<b>Other specs</b>	⌘	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> </table> Other core specifications	Y	N	X		⌘ 25.433 R4 CR 748
Y	N						
X							

**affected:**

X	
X	

Test specifications  
O&M Specifications

25.433 R5 CR 749  
25.423 R5 CR 724

**Other comments:** ☞

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

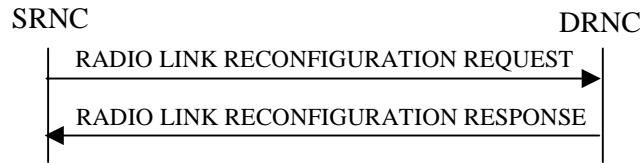
Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☞ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

## 8.3.7 Unsynchronised Radio Link Reconfiguration

/\* partly omitted \*/

### 8.3.7.2 Successful Operation



**Figure 14: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation**

/\* partly omitted \*/

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

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

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

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### [1.28Mcps TDD – Uplink Synchronisation Parameters LCR]:

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

/\* partly omitted \*/

## 9.1.16 RADIO LINK RECONFIGURATION REQUEST

/\* partly omitted \*/

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CTrCH Information To Modify</b>		0..<maxnoof CTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.2		–	
>TFCS	O		9.2.1.63		–	
> UL SIR Target	<u>O</u>		<u>Uplink SIR</u> <u>9.2.1.69</u>	<u>Applicable to</u> <u>1.28Mcps</u> <u>TDD only</u>	<u>YES</u>	<u>reject</u>
<b>UL CTrCH Information To Delete</b>		0..<maxnoof CTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.2		–	
<b>DL CTrCH Information To Modify</b>		0..<maxnoof CTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.2		–	
>TFCS	O		9.2.1.63		–	
<b>DL CTrCH Information To Delete</b>		0..<maxnoof CTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.2		–	
DCHs To Modify	O		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	O		DCH TDD Information 9.2.3.2A		YES	reject
<b>DCHs To Delete</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>UL Synchronisation Parameters LCR</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	M		9.2.3.13J		-	
>Uplink Synchronisation Frequency	M		9.2.3.13I		-	

Range Bound	Explanation
<i>maxnoofCTrCHs</i>	Maximum number of CTrCHs for a UE.
<i>maxnoofDCHs</i>	Maximum number of DCHs for one UE.

### 9.3.3 PDU Definitions

/\* partly omitted \*/

```
-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  PRESENCE
optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  PRESENCE
optional } |
    { ID id-TDD-DCHs-to-Modify          CRITICALITY reject  TYPE TDD-DCHs-to-Modify          PRESENCE optional } |
    { ID id-DCHs-to-Add-TDD             CRITICALITY reject  TYPE DCH-TDD-Information          PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD  CRITICALITY reject  TYPE DCH-DeleteList-RL-ReconfRqstTDD  PRESENCE optional },
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  PRESENCE
mandatory }
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS          OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget          CRITICALITY reject          EXTENSION          UL-SIR          PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    ...
}
```

```

}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  PRESENCE
mandatory  }
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  iE-Extensions     ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

/* partly omitted */

```

CR-Form-v7

## CHANGE REQUEST

⌘ **25.423 CR 724** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD		
<b>Source:</b>	⌘ RAN WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ 24/10/2002
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ In 1.28 Mcps TDD, uplink power control for DPCH and PUSCH is performed by closed loop Power Control according TS 25.221, section 6.2.2.2 - similar as in the FDD mode. The Node B needs to receive the UL SIR Target values from the SRNC; and therefore the <i>UL SIR Target</i> IE should be added to respective NBAP and RNSAP messages.
	In TS25.423 section 9.1.11.2, IE "UL SIR Target" has already been added in Synchronized RL Reconfiguration procedure for 1.28Mcps TDD. It should also be possible to be reconfigured in Unsynchronized RL Reconfiguration procedure.
<b>Summary of change:</b>	⌘ The IE "UL SIR Target" is added as an optional elements to the UL CCTrCH to Modify IEs in the RADIO LINK RECONFIGURATION REQUEST (TDD) message. Procedure text is added to describe the application of the UL SIR Target IE in the 1.28Mcps TDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects only the Unsynchronized RL Reconfiguration procedure for 1.28Mcps TDD.
<b>Consequences if not approved:</b>	⌘ If this document is not approved, the Uplink close loop power control specification for 1.28Mcps will be inconsistent.

<b>Clauses affected:</b>	⌘ 8.3.7.2, 9.1.16.2, 9.3.3						
<b>Other specs</b>	⌘	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> </table> Other core specifications	Y	N	X		⌘ 25.433 R4 CR 748
Y	N						
X							



**affected:**

X	
X	

Test specifications  
O&M Specifications

25.433 R5 CR 749  
25.423 R4 CR 723

**Other comments:** ☞

### How to create CRs using this form:

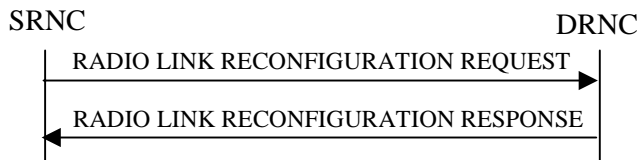
Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

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

/\* partly omitted \*/

### 8.3.7.2 Successful Operation



**Figure 14: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation**

/\* partly omitted \*/

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

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

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

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### **DL Power Control:**

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

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

#### [1.28Mcps TDD – Uplink Synchronisation Parameters LCR]:

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

/\* partly omitted \*/

## 9.1.16 RADIO LINK RECONFIGURATION REQUEST

/\* partly omitted \*/

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CcTrCH Information To Modify</b>		0..<maxnoof CcTrCHs>			EACH	notify
>CcTrCH ID	M		9.2.3.2		–	
>TFCS	O		9.2.1.63		–	
>UL SIR Target	O		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
<b>UL CcTrCH Information to Delete</b>		0..<maxnoof CcTrCHs>			EACH	notify
>CcTrCH ID	M		9.2.3.2		–	
<b>DL CcTrCH Information To Modify</b>		0..<maxnoof CcTrCHs>			EACH	notify
>CcTrCH ID	M		9.2.3.2		–	
>TFCS	O		9.2.1.63		–	
<b>DL CcTrCH Information to Delete</b>		0..<maxnoof CcTrCHs>			EACH	notify
>CcTrCH ID	M		9.2.3.2		–	
DCHs To Modify	O		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	O		DCH TDD Information 9.2.3.2A		YES	reject
<b>DCHs to Delete</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>RL Information</b>		0..1			YES	ignore
>RL ID	M		9.2.1.49		–	
>RL Specific DCH Information	O		9.2.1.49A		–	
<b>UL Synchronisation Parameters LCR</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	M		9.2.3.13J		-	
>Uplink Synchronisation Frequency	M		9.2.3.13I		-	

Range Bound	Explanation
<i>maxnoofCcTrCHs</i>	Maximum number of CcTrCHs for a UE.
<i>maxnoofDCHs</i>	Maximum number of DCHs for one UE.

## 9.3.3 PDU Definitions

/\* partly omitted \*/

```

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  PRESENCE optional } |
    { ID id-TDD-DCHs-to-Modify          CRITICALITY reject  TYPE TDD-DCHs-to-Modify          PRESENCE optional } |
    { ID id-DCHs-to-Add-TDD             CRITICALITY reject  TYPE DCH-TDD-Information          PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD  CRITICALITY reject  TYPE DCH-DeleteList-RL-ReconfRqstTDD  PRESENCE optional },
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  PRESENCE mandatory }
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                     TFCS          OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget          CRITICALITY reject  EXTENSION          UL-SIR          PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    ...
}

```

```

}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    PRESENCE
mandatory    }
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

/* partly omitted */

```

## CHANGE REQUEST

⌘ **25.433 CR 748** ⌘ rev **-** ⌘ Current version: **4.6.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD		
<b>Source:</b>	⌘ RAN WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ 24/10/2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ In 1.28 Mcps TDD, uplink power control for DPCH and PUSCH is performed by closed loop Power Control according TS 25.221, section 6.2.2.2 - similar as in the FDD mode. The Node B needs to receive the UL SIR Target values from the SRNC; and therefore the <i>UL SIR Target</i> IE should be added to respective NBAP and RNSAP messages.
	In TS25.433 section 9.1.42.2, IE "UL SIR Target" has already been added in Synchronized RL Reconfiguration procedure for 1.28Mcps TDD. It should also be possible to be reconfigured in Unsynchronized RL Reconfiguration procedure.
<b>Summary of change:</b>	⌘ The IE "UL SIR Target" is added as an optional elements to the UL CCTrCH to Modify IEs in the RADIO LINK RECONFIGURATION REQUEST (TDD) message. Procedure text is added to describe the application of the UL SIR Target IE in the 1.28Mcps TDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects only the Unsynchronized RL Reconfiguration procedure for 1.28Mcps TDD.
<b>Consequences if not approved:</b>	⌘ If this document is not approved, the Uplink close loop power control specification for 1.28Mcps will be inconsistent.

<b>Clauses affected:</b>	⌘ 8.3.5.2, 9.1.47.2, 9.3.3						
<b>Other specs</b>	⌘	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> </table> Other core specifications	Y	N	X		⌘ 25.433 R5 CR 749
Y	N						
X							

**affected:**

X	
X	

Test specifications  
O&M Specifications

25.423 R4 CR 723  
25.423 R5 CR 724

**Other comments:** ☞

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

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

- 1) Fill out the above form. The symbols above marked ☞ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

## 8.3.5 Unsynchronised Radio Link Reconfiguration

/\* partly omitted \*/

### 8.3.5.2 Successful Operation

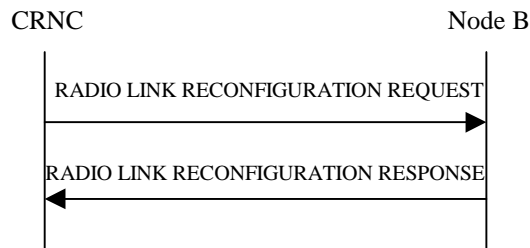


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

/\* partly omitted \*/

#### [TDD – UL/DL CCH Modification]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCH To Modify* IE or *DL CCH 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 CCH 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 CCH are still applicable.]

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

#### [TDD – UL/DL CCH Deletion]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCH To Delete* IE or *DL CCH To Delete* IE, the Node B shall not include this CCH 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  $\delta P_{curr}$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- 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.]
- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

/\* partly omitted \*/



## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

/\* partly omitted \*/

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
<b>UL CCTrCH To Modify</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
>UL SIR Target	<u>O</u>		<u>UL SIR</u> 9.2.1.67A	<u>Applicable to 1.28Mcps TDD only</u>	<u>YES</u>	<u>reject</u>
<b>UL CCTrCH To Delete</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
<b>DL CCTrCH To Modify</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>DL CCTrCH To Delete</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
DCHs To Modify	O		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	O		DCH TDD Information 9.2.3.4C		YES	reject
<b>DCHs To Delete</b>		<i>0..&lt;maxno of DSCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>RL Information</b>		<i>0..1</i>			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21	Maximum allowed power on DPCH	–	
>Minimum Downlink Power	O		DL Power 9.2.1.21	Minimum allowed power on DPCH	–	
<b>&gt;UL Synchronisation Parameters LCR</b>		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	M		9.2.3.26H		–	
>>Uplink Synchronisation Frequency	M		9.2.3.26G		–	

Range Bound	Explanation
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE

## 9.3.3 PDU Definitions

/\* partly omitted \*/

```

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer  {{RadioLinkReconfigurationRequestTDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID          PRESENCE  mandatory } | CRITICALITY  reject          TYPE  NodeB-
    CommunicationContextID
    { ID      id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE  optional } | CRITICALITY  notify          TYPE  UL-CCTrCH-
    InformationModifyList-RL-ReconfRqstTDD
    { ID      id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE  optional } | CRITICALITY  notify          TYPE  UL-CCTrCH-
    InformationDeleteList-RL-ReconfRqstTDD
    { ID      id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE  optional } | CRITICALITY  notify          TYPE  DL-CCTrCH-
    InformationModifyList-RL-ReconfRqstTDD
    { ID      id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE  optional } | CRITICALITY  notify          TYPE  DL-CCTrCH-
    InformationDeleteList-RL-ReconfRqstTDD
    { ID      id-TDD-DCHs-to-Modify          CRITICALITY  reject          TYPE  TDD-DCHs-to-Modify PRESENCE optional } |
    { ID      id-DCHs-to-Add-TDD          CRITICALITY  reject          TYPE  DCH-TDD-Information
    PRESENCE  optional } |
    { ID      id-DCH-DeleteList-RL-ReconfRqstTDD          CRITICALITY  reject          TYPE  DCH-DeleteList-RL-
    ReconfRqstTDD PRESENCE  optional } |
    { ID      id-RL-Information-RL-ReconfRqstTDD          CRITICALITY  reject          TYPE  RL-Information-RL-ReconfRqstTDD
    PRESENCE  optional },
    ...
}

RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationModifyItemIE-RL-ReconfRqstTDD}}

UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          CRITICALITY  notify          TYPE  UL-CCTrCH-
    InformationModifyItem-RL-ReconfRqstTDD PRESENCE  mandatory}
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,

```

```

tFCS
punctureLimit
iE-Extensions
OPTIONAL,
...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-SIRTarget          CRITICALITY reject          EXTENSION          UL-SIR          PRESENCE          optional          },
  -- Applicable to 1.28Mcps TDD only
  ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}

UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          CRITICALITY          notify          TYPE          UL-CCTrCH-
InformationDeleteItem-RL-ReconfRqstTDD          PRESENCE          mandatory}
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  iE-Extensions          ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```
/* partly omitted */
```

## CHANGE REQUEST

⌘ **25.433 CR 749** ⌘ rev **-** ⌘ Current version: **5.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD		
<b>Source:</b>	⌘ RAN WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ 24/10/2002
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ In 1.28 Mcps TDD, uplink power control for DPCH and PUSCH is performed by closed loop Power Control according TS 25.221, section 6.2.2.2 - similar as in the FDD mode. The Node B needs to receive the UL SIR Target values from the SRNC; and therefore the <i>UL SIR Target</i> IE should be added to respective NBAP and RNSAP messages.
	In TS25.433 section 9.1.42.2, IE "UL SIR Target" has already been added in Synchronized RL Reconfiguration procedure for 1.28Mcps TDD. It should also be possible to be reconfigured in Unsynchronized RL Reconfiguration procedure.
<b>Summary of change:</b>	⌘ The IE "UL SIR Target" is added as an optional elements to the UL CCTrCH to Modify IEs in the RADIO LINK RECONFIGURATION REQUEST (TDD) message. Procedure text is added to describe the application of the UL SIR Target IE in the 1.28Mcps TDD mode.
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects only the Unsynchronized RL Reconfiguration procedure for 1.28Mcps TDD.
<b>Consequences if not approved:</b>	⌘ If this document is not approved, the Uplink close loop power control specification for 1.28Mcps will be inconsistent.

<b>Clauses affected:</b>	⌘ 8.3.5.2, 9.1.47.2, 9.3.3							
<b>Other specs</b>	⌘	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 25.433 R4 CR 748
Y	N							
X								

**affected:**

X	
X	

Test specifications  
O&M Specifications

25.423 R4 CR 723  
25.423 R5 CR 724

**Other comments:** ☞

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

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

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

Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

### 8.3.5 Unsynchronised Radio Link Reconfiguration

/\* partly omitted \*/

#### 8.3.5.2 Successful Operation

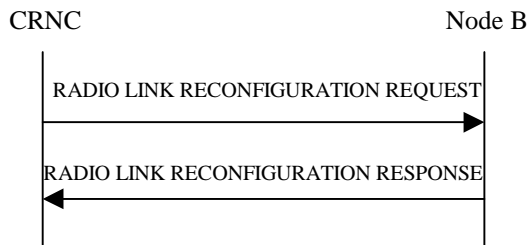


Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

/\* partly omitted \*/

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

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

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

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### DL Power Control:

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

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

#### RL Information:

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

- 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  $\delta P_{curr}$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- 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.]
- [1.28Mcps TDD – If the *RL Information IE* contains the *Uplink Synchronisation Parameters LCR IE*, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize IE* and *Uplink Synchronisation Frequency IE* when evaluating the timing of the UL synchronisation.]

**Signalling Bearer Re-arrangement:**

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

/\* partly omitted \*/

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

/\* partly omitted \*/

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
<b>UL CCH To Modify</b>		<i>0..&lt;maxno ofCCHs&gt;</i>			EACH	notify
>CCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
>UL SIR Target	<u>O</u>		<u>UL SIR</u> 9.2.1.67A	<u>Applicable to 1.28Mcps TDD only</u>	<u>YES</u>	<u>reject</u>
<b>UL CCH To Delete</b>		<i>0..&lt;maxno ofCCHs&gt;</i>			EACH	notify
>CCH ID	M		9.2.3.3		–	
<b>DL CCH To Modify</b>		<i>0..&lt;maxno ofCCHs&gt;</i>			EACH	notify
>CCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>DL CCH To Delete</b>		<i>0..&lt;maxno ofCCHs&gt;</i>			EACH	notify
>CCH ID	M		9.2.3.3		–	
DCHs To Modify	O		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	O		DCH TDD Information 9.2.3.4C		YES	reject
<b>DCHs To Delete</b>		<i>0..&lt;maxno ofDSCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>RL Information</b>		<i>0..1</i>			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21	Maximum allowed power on DPCH	–	
>Minimum Downlink Power	O		DL Power 9.2.1.21	Minimum allowed power on DPCH	–	
>RL Specific DCH Information	O		9.2.1.53G		YES	ignore
<b>&gt;UL Synchronisation Parameters LCR</b>		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	M		9.2.3.26H		–	
>>Uplink Synchronisation Frequency	M		9.2.3.26G		–	

Signalling Bearer Request Indicator	O		9.2.1.55A		YES	reject
-------------------------------------	---	--	-----------	--	-----	--------

<b>Range Bound</b>	<b>Explanation</b>
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE

## 9.3.3 PDU Definitions

/\* partly omitted \*/

```

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer  {{RadioLinkReconfigurationRequestTDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID          CRITICALITY    reject          TYPE NodeB-
CommunicationContextID          PRESENCE    mandatory } |
    { ID      id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE UL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD          PRESENCE    optional } |
    { ID      id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE UL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD          PRESENCE    optional } |
    { ID      id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD          PRESENCE    optional } |
    { ID      id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD          PRESENCE    optional } |
    { ID      id-TDD-DCHs-to-Modify          CRITICALITY    reject          TYPE TDD-DCHs-to-Modify          PRESENCE optional } |
    { ID      id-DCHs-to-Add-TDD          CRITICALITY    reject          TYPE DCH-TDD-Information
PRESENCE optional } |
    { ID      id-DCH-DeleteList-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE DCH-DeleteList-RL-
ReconfRqstTDD          PRESENCE    optional } |
    { ID      id-RL-Information-RL-ReconfRqstTDD          CRITICALITY    reject          TYPE RL-Information-RL-ReconfRqstTDD
PRESENCE optional },
    ...
}

RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SignallingBearerRequestIndicator          CRITICALITY reject EXTENSION SignallingBearerRequestIndicator          PRESENCE optional },
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationModifyItemIE-RL-ReconfRqstTDD}}

UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE UL-CCTrCH-
InformationModifyItem-RL-ReconfRqstTDD          PRESENCE    mandatory}
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {

```

```

cCtRCH-ID          CcTtRCH-ID,
tFCS               TFCS          OPTIONAL,
punctureLimit     PunctureLimit  OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { { UL-CcTtRCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs } }
OPTIONAL,
...
}

UL-CcTtRCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-SIRTarget          CRITICALITY reject          EXTENSION          UL-SIR          PRESENCE          optional          },
  -- Applicable to 1.28Mcps TDD only
  ...
}

UL-CcTtRCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCcTtRCHs)) OF ProtocolIE-Single-Container {{ UL-CcTtRCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}

UL-CcTtRCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CcTtRCH-InformationDeleteItem-RL-ReconfRqstTDD          CRITICALITY          notify          TYPE          UL-CcTtRCH-
InformationDeleteItem-RL-ReconfRqstTDD          PRESENCE          mandatory}
}

UL-CcTtRCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCtRCH-ID          CcTtRCH-ID,
  iE-Extensions     ProtocolExtensionContainer { { UL-CcTtRCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } }
OPTIONAL,
...
}

UL-CcTtRCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
/* partly omitted */

```