

TSG RAN Meeting #19
Birmingham, UK, 11 - 14 March 2003

RP-030078

Title CR (Rel-5 only) to TS 25.423 and 25.433 on HS-PDSCH Corrections for TDD
Source TSG RAN WG3
Agenda Item 8.3.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-030296	25.423	5.4.0	5.5.0	REL-5	773	1	F	HS-PDSCH RNSAP Corrections for TDD	HSDPA-lublur
R3-030295	25.433	5.3.0	5.4.0	REL-5	798	1	F	HS-PDSCH NBAP Corrections for TDD	HSDPA-lublur

CHANGE REQUEST

⌘ **25.423 CR 773** ⌘ rev **1** ⌘ Current version: **5.4.0** ⌘

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

Title:	⌘ HS-PDSCH RNSAP Corrections for TDD		
Source:	⌘ RAn WG3		
Work item code:	⌘ HSDPA-IubIur	Date:	⌘ 17/02/2003
Category:	⌘ F	Release:	⌘ REL-5
	<i>Use one of the following categories:</i> 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 TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ In the procedural text for Radio Link Parameter Update, a number of IEs are referenced which are FDD only, but the square brackets to indicate this are missing. In the tabular for IE HS-DSCH TDD Information Response, the semantics description does not clearly specify which IEs are Mandatory for 3.84Mcps TDD and not applicable to 1.28Mcps TDD (and vice-versa).
Summary of change:	⌘ Brackets added in Radio Link Parameter Update procedural text. Semantics description clarified for HS-DSCH TDD Information Response. Comments are added to the ASN.
Consequences if not approved:	⌘ Specifications may cause confusion for TDD. Isolated Impact Analysis These are changes that are applicable to TDD only.

Clauses affected:	⌘ 8.3.21.2, 9.2.3.3ab										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ 25.433 CR798
Y	N										
X											
	X										
	X										
		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 <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.21 Radio Link Parameter Update

8.3.21.1 General

The Radio Link Parameter Update procedure is executed by the DRNS to update parameters related to HS-DSCH on a radio link for a UE-UTRAN connection.

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

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

8.3.21.2 Successful Operation



Figure 26E: Radio Link Parameter Update Indication, Successful Operation

The Radio Link Parameter Update procedure is initiated by the DRNS by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the SRNC.

The message contains suggested value(s) of the HS-DSCH related parameter(s) that should be reconfigured on the radio link.

If DRNS needs to update HS-DSCH related parameters, DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including [FDD - *HS-DSCH FDD Update Information IE*] [TDD - *HS-DSCH TDD Update Information IE*].

If DRNS needs to allocate new HS-SCCH Codes, DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-SCCH Code Change Indicator IE*.

[FDD - If DRNS needs to update the CQI Feedback Cycle k , CQI Repetition Factor, ACK-NACK Repetition Factor, CQI Power Offset, ACK Power Offset and/or NACK Power Offset, DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CQI Feedback Cycle k IE*, *CQI Repetition Factor IE*, *ACK-NACK Repetition Factor IE*, *CQI Power Offset IE*, *ACK Power Offset IE* and/or *NACK Power Offset IE*].

8.3.21.3 Abnormal Conditions

9.2.3.3ab HS-DSCH TDD Information Response

The *HS-DSCH TDD Information Response* IE provides information for HS-DSCH that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information Response		<i>1..<maxno ofMACdFlows></i>			–	
>HS-DSCH MAC-d Flow ID	M		9.2.1.30O		–	
>Binding ID	O		9.2.1.3		–	
>Transport Layer Address	O		9.2.1.62		–	
>HS-DSCH Initial Capacity Allocation	O		9.2.1.30Na		–	
HS-SCCH Specific Information Response		<i>0..<maxno ofHSSCC Hcodes></i>		Mandatory for 3.84 Mcps TDD, not applicable to 1.28 Mcps TDD Mandatory for 3.84 Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23			
>Midamble Shift And Burst Type	M		9.2.3.7			
>TDD Channelisation Code	M		9.2.3.19			
>HS-SICH Information		<i>1</i>				
>>Time Slot	M		9.2.3.23			
>>Midamble Shift And Burst Type	M		9.2.3.7			
>>TDD Channelisation Code	M		9.2.3.19			
HS-SCCH Specific Information Response LCR		<i>0..<maxno ofHSSCC Hcodes></i>		Mandatory for 1.28 Mcps TDD, not applicable to 3.84 Mcps TDD Mandatory for 1.28 Mcps TDD only	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24a			
>Midamble shift LCR	M		9.2.3.7A			
>First TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a			
>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a			
>HS-SICH Information LCR		<i>1</i>				
>>Time Slot LCR	M		9.2.3.24a			
>>Midamble shift LCR	M		9.2.3.7A			
>>TDD Channelisation Code LCR	M		9.2.3.19a			

Range bound	Explanation
<i>MaxnoofMACdFlows</i>	Maximum number of MAC-d flows.
<i>MaxnoofHSSCCHcodes</i>	Maximum number of HS-SCCH codes.

ASN changes:

```

HSDSCH-TDD-Information-Response ::= SEQUENCE {
  hSDSCH-MACdFlow-Specific-InfoList-Response  HSDSCH-MACdFlow-Specific-InfoList-Response,
  hSSCCH-TDD-Specific-InfoList-Response       HSSCCH-TDD-Specific-InfoList-Response
  | OPTIONAL, -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
  hSSCCH-TDD-Specific-InfoList-Response-LCR   HSSCCH-TDD-Specific-InfoList-Response-LCR
  | OPTIONAL, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  iE-Extensions                               ProtocolExtensionContainer { { HSDSCH-TDD-
Information-Response-ExtIES } }              OPTIONAL,
  ...
}

```

CHANGE REQUEST

⌘ **25.433 CR 798** ⌘ rev **1** ⌘ 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

Title:	⌘ HS-PDSCH NBAP Corrections for TDD		
Source:	⌘ RAN WG3		
Work item code:	⌘ HSDPA-IubIur	Date:	⌘ 17/02/2003
Category:	⌘ F	Release:	⌘ REL-5
	<i>Use one of the following categories:</i> 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 TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ In the procedural text for Radio Link Parameter Update, NBAP, a number of IEs are referenced which are FDD only, but the square brackets to indicate this are missing. In the tabular for IE HS-DSCH TDD Information Response, NBAP, it is not explicitly stated in the semantics description which IEs are for LCR and HCR TDD.
Summary of change:	⌘ Brackets added in Radio Link Parameter Update procedural text to indicate FDD only IEs. Semantics description clarified for HS-DSCH TDD Information Response (and aligned to RNSAP). Comments are added to the ASN.
Consequences if not approved:	⌘ Specifications may cause confusion for TDD. Isolated Impact Analysis These are changes that are applicable to TDD only.

Clauses affected:	⌘ 8.3.19.2, 9.2.3.5G										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <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> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ 25.423 CR 773
Y	N										
X											
	X										
	X										
		Test specifications									
		O&M Specifications									
Other comments:	⌘										

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

8.3.19 Radio Link Parameter Update

8.3.19.1 General

The Radio Link Parameter Update procedure is executed by the Node B when the update of HS-DSCH related radio link parameter values are needed on the Node B side. With this procedure, Node B can suggest some HS-DSCH related Radio Link Parameter values to RNC.

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

8.3.19.2 Successful Operation

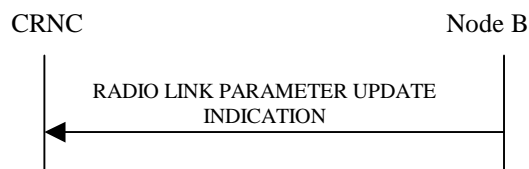


Figure 48: Radio Link Parameter Update Indication, Successful Operation

The Node B initiates the Radio Link Parameter Update procedure by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the CRNC. The message contains suggested value(s) of the HS-DSCH related parameter(s) that should be reconfigured on the radio link.

If Node B needs to update HS-DSCH related parameters, Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including [FDD - *HS-DSCH FDD Update Information IE*] [TDD - *HS-DSCH TDD Update Information IE*].

If Node B needs to allocate new HS-SCCH Codes, Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-SCCH Code Change Indicator IE*.

[[FDD](#) - If Node B needs to update the CQI Feedback Cycle k , CQI Repetition Factor, ACK-NACK Repetition Factor, CQI Power Offset, ACK Power Offset and/or NACK Power Offset, Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CQI Feedback Cycle k IE*, *CQI Repetition Factor IE*, *ACK-NACK Repetition Factor IE*, *CQI Power Offset IE*, *ACK Power Offset IE* and/or *NACK Power Offset IE*.]

9.2.3.5G HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information Response		<i>1..<max noofMACdFlows></i>			–	
>HS-DSCH MAC-d Flow ID	M		9.2.1.31I		–	
>Binding ID	O		9.2.1.4		–	
>Transport Layer Address	O		9.2.1.63		–	
> HS-DSCH Initial Capacity Allocation	O		9.2.1.31Ha		–	
HS-SCCH Specific Information Response		<i>0..<max NoOfHS SCCHcodes></i>		Mandatory for 3.84 Mcps TDD, not applicable to 1.28 Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Midamble Shift And Burst Type	M		9.2.3.7		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>HS-SICH Information		<i>1</i>			–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
HS-SCCH Specific Information Response LCR		<i>0..<max NoOfHS SCCHcodes></i>		Mandatory for 1.28 Mcps TDD, not applicable to 3.84 Mcps TDD	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		–	
>Midamble Shift LCR	M		9.2.3.7a		–	
>First TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		–	
>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		–	
>HS-SICH Information LCR		<i>1</i>			–	
>>Time Slot LCR	M		9.2.3.24A		–	
>>Midamble Shift LCR	M		9.2.3.7a		–	
>>TDD Channelisation Code LCR	M		9.2.3.19a		–	

Range Bound	Explanation
<i>maxnoofMACdFlows</i>	Maximum number of HS-DSCH MAC-d flows.
<i>maxnoofPrioQueues</i>	Maximum number of Priority Queues
<i>maxnoofMACdPDUindexes</i>	Maximum number of different MAC-d Size Indexes (SIDs)
<i>maxnoofHSSCCHcodes</i>	Maximum number of HS-SCCH codes

ASN changes

```
HSDSCH-TDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp          HSDSCH-MACdFlow-Specific-InformationResp,
    hsSCCH-Specific-Information-ResponseTDD           HSSCCH-Specific-InformationRespListTDD
    OPTIONAL, -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    hsSCCH-Specific-Information-ResponseTDDLRCR       HSSCCH-Specific-InformationRespListTDDLRCR
    OPTIONAL, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    iE-Extensions                                     ProtocolExtensionContainer { { HSDSCH-TDD-
Information-Response-ExtIEs } }                     OPTIONAL,
    ...
}
```