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

RP-030068

Title CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Clarification to

**DL Power definition 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
R3-030054	25.423	4.7.0	4.8.0	REL-4	766	-	F	Clarification to DL Power definition for TDD	TEI4
R3-030055	25.423	5.4.0	5.5.0	REL-5	767	-	Α	Clarification to DL Power definition for TDD	
R3-030052	25.433	4.7.0	4.8.0	REL-4	790	-	F	Clarification to DL Power definition for TDD	TEI4
R3-030053	25.433	5.3.0	5.4.0	REL-5	791	-	Α	Clarification to DL Power definition for TDD	TEI4

	CHANGE REQUEST								
ж <b>2</b>	5.423 CR 766								
For <u>HELP</u> on using	g this form, see bottom of this page or look at the pop-up text over the   ℜ symbols.								
Proposed change affe	ME Radio Access Network X Core Network								
Title:	larification to DL Power definition for TDD								
Source: # R	AN WG3								
Work item code:	El4 Date:								
De	Release: # Rel-4  e one of the following categories:  F (correction)  A (corresponds to a correction in an earlier release)  B (addition of feature),  C (functional modification of feature)  P (editorial modification)  T (Release 1996)  R97 (Release 1997)  R98 (Release 1998)  P (editorial modification)  R99 (Release 1999)  tailed explanations of the above categories can found in 3GPP TR 21.900.  Rel-5 (Release 5)  Rel-6 (Release 6)								
Reason for change:	The DPCHs of one RL have different spreading factors would have different								
Summary of change: 8	requirement of DL Tx power.  Clarify that when it referred to a DPCH in TDD, the <i>DL Power</i> IE indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12dB higher.  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 DL Tx power for TDD, it however has some backward incompatibility issues since a node running a version previous to this CR would have additional confusion with any spreading factor 1 codes.								
Consequences if not approved:	If this document is not approved, the usage of DL Tx power would be at best confusing for TDD and at worst would not allow spreading factor 1 and spreading factor 16 channels in the same radio link.								
Clauses affected:	♥ 9.2.1.21A								
Other specs	Y N  X Other core specifications    TS 25.433 Rel-4 CR 790 TS 25.433 Rel-5 CR 791 TS 25.423 Rel-5 CR 767  X Test specifications								
uncotou.	X O&M Specifications								

### How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \( \mathcal{H} \) 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

## 9.2.1.21A DL Power

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics description
DL Power			INTEGER (- 350150)	Value = DL Power /10 Unit dB Range –35.0 +15.0 Step 0.1dB

	CR-Form-v7 CHANGE REQUEST
ж 2	25.423 CR 767
For <u>HELP</u> on usin	g this form, see bottom of this page or look at the pop-up text over the
Proposed change aff	ects: UICC apps第 ME Radio Access Network X Core Network
Title: # (	Clarification to DL Power definition for TDD
Source: # F	RAN WG3
   Work item code:	TEI4 Date: 第 14/01/2003
De	See one of the following categories:  F (correction)  A (corresponds to a correction in an earlier release)  B (addition of feature),  C (functional modification of feature)  P (editorial modification)  E (found in 3GPP TR 21.900).  C (functional modification)  The DPCHs of one RL have different spreading factors would have different requirement of DL Tx power.
	The impact can be considered isolated because the change affects only the DL Tx power for TDD, it however has some backward incompatibility issues since a node running a version previous to this CR would have additional confusion with any spreading factor 1 codes.
Consequences if not approved:	If this document is not approved, the usage of DL Tx power would be at best confusing for TDD and at worst would not allow spreading factor 1 and spreading factor 16 channels in the same radio link.
Clauses affected:	第 9.2.1.21A
,	Y N  X Other core specifications
affected:	X Test specifications O&M Specifications

### How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \( \mathcal{H} \) contain pop-up help information about the field that they are closest to.
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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (- 350150)	Value = DL Power /10 Unit dB Range –35.0 +15.0 Step 0.1dB

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			C	HAN	GE	REQ	UE	ST				OK-I GIIII-VI
×	25.	433	CR	790	8	⊭rev	-	Ħ	Current ve	rsion:	4.7.0	*
For <u>HELP</u> on u	ısing t	his for	m, see	bottom o	f this <sub>l</sub>	page or	look	at the	e pop-up te	kt ovei	r the ₩ syl	mbols.
Proposed change	affect	<b>:s:</b> (	JICC ap	ps#		ME	Rad	dio A	ccess Netw	ork X	Core Ne	etwork
Title:	Cla	rificati	on to DI	_ Power o	definit	ion for T	ΓDD					
Source: #	RAI	N WG	3									
Work item code: ₩	TEI	4							Date: 8	<b>⊭</b> 14	/01/2003	
Category:	Detai	F (corr A (corr B (add C (fund D (edid led exp	rection) respond: dition of to ctional mo olanatior	wing categ s to a corrective), nodification dification) as of the al R 21.900.	ection n of fea	ature)			2	of the for (GSI) (Relo (Relo (Relo (Relo (Relo	el-4 ollowing rel M Phase 2) ease 1996) ease 1998) ease 1999) ease 4) ease 5)	
Reason for change	e: X	The	DPCHs	of one R	L hav	e differe	ent sr	read	ing factors	would	have diffe	rent
				of DL Tx			•		J			
Summary of chang	ge: Ж	Impa Impa relea The Tx po	er of a set of a let of a let Analytic assesses of a let	preading dB highe ysis: ssment to can be co	factor.  oward  onside  howev  on pre	r 16 coo s the prered isolover has	eviou	e povus vei	op, the <i>DL F</i> wer for a sport rsion of the use the cha kward incorvould have a	readin specif nge at	g factor 1 ication (sa ffects only ility issues	the DL since a
Consequences if not approved:	$\mathfrak{R}$	confu	using fo	r TDD an	nd at w	vorst wo	ould r	ot all	of DL Tx po ow spreadir			
		facto	r 16 ch	annels in	the sa	ame rac	dio lin	k.				
Clauses affected:	Ж	9.2.1	.21									
Other specs	*	Y N X X	Test s	core spec	ons	ions	X	TS 2	25.433 Rel- 25.423 Rel- 25.423 Rel-	4 CR 7	<b>'</b> 66	
		X	O&M S	Specificat	tions							

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
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				Range: -35.0 +15.0 dB Step: 0.1dB

,	CR-Form-v						
	CHANGE REQUEST						
¥ <b>2</b> 5	5.433 CR 791						
For <u>HELP</u> on using	g this form, see bottom of this page or look at the pop-up text over the % symbols.						
Proposed change affe	Cts: UICC apps第 ME Radio Access Network X Core Network						
Title: 第 C	larification to DL Power definition for TDD						
Source: # R	AN WG3						
Work item code: ₩ T	El4 Date: 第 14/01/2003						
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Reason for change:   The DPCHs of one RL have different spreading factors would have different							
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Summary of change: 9	Clarify that when it referred to a DPCH in TDD, the <i>DL Power</i> IE indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12dB higher.  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 DL Tx power for TDD, it however has some backward incompatibility issues since a node running a version previous to this CR would have additional confusion with any spreading factor 1 codes.						
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