TSG RAN Meeting #19 **RP-030068**
Birmingham, UK, 11 - 14 March 2003

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	-	A	Clarification to DL Power definition for TDD	TEI4
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	-	A	Clarification to DL Power definition for TDD	TEI4

3GPP TSG-RAN WG3 Meeting #34 **Tdoc ⌘R3-030054**
Sophia Antipolis, France, February 17th—21st, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.423** **CR** **766** ⌘ **rev** **-** ⌘ Current version: **4.7.0** ⌘

*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:	⌘	Clarification to DL Power definition for TDD
Source:	⌘	RAN WG3
Work item code:	⌘	TEI4
Date:	⌘	14/01/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

Use 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)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*

Reason for change:	⌘	The DPCHs of one RL have different spreading factors would have different requirement of DL Tx power.
Summary of change:	⌘	Clarify that when it referred to a DPCH in TDD, the *DL Power* 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			
		Y	**N**		
Other specs affected:	⌘	**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	
			X	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.

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].

[TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics description
DL Power			INTEGER (-350..150)	Value = DL Power /10 Unit dB Range –35.0 .. +15.0 Step 0.1dB

3GPP TSG-RAN WG3 Meeting #34 **Tdoc ⌘R3-030055**
Sophia Antipolis, France, February 17th—21st, 2003

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CHANGE REQUEST

⌘ **25.423** **CR** **767** ⌘ **rev** **-** ⌘ 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:	⌘	Clarification to DL Power definition for TDD
Source:	⌘	RAN WG3
Work item code:	⌘	TEI4
Date:	⌘	14/01/2003
Category:	⌘	**A**
Release:	⌘	Rel-5

Use 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)*
D *(editorial modification)*
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Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The DPCHs of one RL have different spreading factors would have different requirement of DL Tx power.
Summary of change:	⌘	Clarify that when it referred to a DPCH in TDD, the *DL Power* 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			
		Y	**N**		
Other specs affected:	⌘	**X**		Other core specifications	⌘ TS 25.433 Rel-4 CR 790 TS 25.433 Rel-5 CR 791 TS 25.423 Rel-4 CR 766
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘	

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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].

[TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350..150)	Value = DL Power /10 Unit dB Range –35.0 .. +15.0 Step 0.1dB

3GPP TSG-RAN WG3 Meeting #34
Sophia Antipolis, France, February 17th—21st, 2003

Tdoc ⌘R3-030052

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CHANGE REQUEST

⌘ **25.433** **CR** **790** ⌘ **rev** **-** ⌘ Current version: **4.7.0** ⌘

*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:	⌘	Clarification to DL Power definition for TDD
Source:	⌘	RAN WG3
Work item code:	⌘	TEI4
Date:	⌘	14/01/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

Use one of the following categories:
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C *(functional modification of feature)*
D *(editorial modification)*
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Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
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Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	The DPCHs of one RL have different spreading factors would have different requirement of DL Tx power.
Summary of change:	⌘	Clarify that when it referred to a DPCH in TDD, the *DL Power* 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:	⌘	9.2.1.21			
		Y	**N**		
Other specs affected:	⌘	**X**		Other core specifications	⌘ TS 25.433 Rel-5 CR 791 TS 25.423 Rel-4 CR 766 TS 25.423 Rel-5 CR 767
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘	

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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].

[TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350..150)	Value = DL Power /10 Unit: dB Range: -35.0 .. +15.0 dB Step: 0.1dB

3GPP TSG-RAN WG3 Meeting #34 **Tdoc ⌘R3-030053**
Sophia Antipolis, France, February 17th—21st, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.433** **CR** **791** ⌘ **rev** **-** ⌘ Current version: **5.3.0** ⌘

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Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☐

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Source:	⌘	RAN WG3
Work item code:	⌘	TEI4
Date:	⌘	14/01/2003
Category:	⌘	**A**
Release:	⌘	Rel-5

Use one of the following categories:
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Clauses affected:	⌘	9.2.1.21			
		Y	**N**		
Other specs	⌘	**X**		Other core specifications	⌘ TS 25.433 Rel-4 CR 790 TS 25.423 Rel-4 CR 766 TS 25.423 Rel-5 CR 767
affected:			**X**	Test specifications	
			X	O&M Specifications	

Other comments: ⌘	

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9.2.1.21 DL Power

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
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