

**3GPP TSG RAN Meeting #20
Hameenlinna, FINLAND, 3 - 6 June 2003**

RP-030274

Title: CR (Rel-5) to TS 25.215

Source: TSG-RAN WG1

Agenda item: 7.1.5

1. TS 25.215 (RP-030274)

RP Tdoc #	WG Toc#	Spec	CR	Rev	Subject	Phase	Cat	Curren	New V	Workitem	Remarks
RP-030274	R1-030602	25.215	143	-	Correction of transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission definition in case of Tx diversity:	Rel-5	F	5.3.0	5.4.0	HSDPA-Phys	

CHANGE REQUEST

25.215 CR 143 # 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

Title:	#	Correction of transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission definition in case of Tx diversity:	
Source:	#	TSG RAN WG1	
Work item code:	#	HSDPA-Phys	Date: # 19/05/2003
Category:	#	F	Release: # Rel-5
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		F (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 1999)
		Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	#	The current definition of the transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission in case of Tx diversity cannot be used as a sensible physical layer measurement as a basis for an efficient reporting. Moreover several interpretations of the definition are possible which may lead to different implementations in case of Tx diversity and thus to inconsistent behaviours among different Node B manufacturers.
Summary of change:	#	The transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission in case of Tx diversity is corrected as being the ratio between the sum of the total transmitted power of all codes not used for HS-PDSCH or HS-SCCH transmission of all branches and the maximum transmission power.
Consequences if not approved:	#	In case of TX diversity, the actual transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission cannot be reported to the RNC. HSDPA Radio resource management and call admission control algorithms would not work properly.
		Isolated impact analysis: The proposed correction impacts a Node B that would implement Tx diversity. A Node B that does not offer Tx diversity as a feature remains unaffected. Moreover it has no impact on other 3GPP specifications. The change does not effect UE-BS interworking.

Clauses affected:	#	5.2.15				
Other specs	#	<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="width: 20px; text-align: center;">X</td> <td style="width: 20px; text-align: center;"></td> </tr> </table> Other core specifications #	Y	N	X	
Y	N					
X						

affected:

<input checked="" type="checkbox"/>	Test specifications
<input checked="" type="checkbox"/>	O&M Specifications

Other comments:

- ⌘ This correction has no impact on the definition of transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission when Tx diversity is not used.

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.

5.2.15 Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission

Definition	<p>Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission is the ratio between the total transmitted power of all codes not used for HS-PDSCH or HS-SCCH transmission on one DL carrier from one UTRAN access point, and the maximum transmission power possible to use on that DL carrier at this moment of time. Total transmission power of all codes not used for HS-PDSCH or HS-SCCH transmission is the mean power [W] of all codes not used for HS-PDSCH or HS-SCCH transmission on one carrier from one UTRAN access point. Maximum transmission power is the mean power [W] on one carrier from one UTRAN access point when transmitting at the configured maximum power for the cell. The measurement shall be possible on any carrier transmitted from the UTRAN access point. The reference point for the transmitted carrier power measurement of all codes not used for HS-PDSCH or HS-SCCH transmission shall be the Tx antenna connector. In case of Tx diversity the transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission <u>is the ratio between the sum of the total transmitted powers of all codes not used for HS-PDSCH or HS-SCCH transmission of all branches and the maximum transmission power</u>. for each branch shall be measured and the maximum of the two values shall be reported to higher layers, i.e. only one value will be reported to higher layers.</p>
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