TSGR1#11(00)0307

TSG-RAN Working Group 1 meeting #11 San Diego, USA February 29th - March 3rd , 2000

Agenda item: AH 16

Source: Ericsson

Title: CR 25.215-024r1: Definition of Transmitted carrier power

Document for: Decision

This is rev 1 of CR 034 for TS 25.215 (Tdoc R1-00-0041).

In Tdoc R1-00-0041 the definition of the Transmitted carrier power was proposed to be:

Transmitted carrier power, is the ratio between the total transmitted power on one carrier [W] from one UTRAN access point and the maximum transmission power [W] that is possible to use on the same carrier during the measurement period, where the maximum transmission power is the configured maximum transmission power for the cell.

Concerns has been raised that the current definition is somewhat unclear when it comes to the reference point for the configured maximum transmission power, which shall be the antenna connector as for the total transmission power.

This is proposed to be clarified in the definition and therefore the definition of the Transmitted carrier power is proposed to be changed to:

Transmitted carrier power is the ratio between the total transmitted power and the maximum transmission power. Total transmitted power is the mean power [W] 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.

This CR incorporates this change in TS 25.215.

3GPP TSG RAN WG1 Meeting #11 San Diego, USA, February 29th - March 3rd , 2000

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e.g. for 3GPP use the format TP-99xxx or for SMG. use the format P-99-xxx

Please see embedded help file at the bottom of this CHANGE REQUEST page for instructions on how to fill in this form correctly. Current Version: 3.1.0 25,215 CR 024r1 ↑ CR number as allocated by MCC support team GSM (AA.BB) or 3G (AA.BBB) specification number 1 For submission to: TSG-RAN #7 for approval strategic (for SMG list expected approval meeting # here ↑ for information use only) non-strategic Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc (U)SIM ME UTRAN / Radio X Core Network Proposed change affects: (at least one should be marked with an X) Ericsson 2000-02-24 Source: Date: Definition of Transmitted carrier power Subject: Work item: **Category:** F Correction X Release: Phase 2 A Corresponds to a correction in an earlier release Release 96 (only one category B Addition of feature Release 97 shall be marked C Functional modification of feature Release 98 with an X) D Editorial modification Release 99 Release 00 Reason for In TS 25.302 v3.x.y the UTRAN measurement Transmitted carrier power has been redefined. In the new definition the Transmitted carrier power shall be reported as the change: ratio between the transmitted power on one carrier and the maximum power possible to use on that carrier. This CR will introduce this change in TS 25.215 section 5.2.3. Clauses affected: 5.2.3 Transmitted carrier power Other specs Other 3G core specifications → List of CRs: Other GSM core affected: → List of CRs: specifications MS test specifications → List of CRs: BSS test specifications → List of CRs: **O&M** specifications → List of CRs: Other comments:

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5.2.3 Transmitted carrier power

Definition	Transmitted carrier power, is the <u>ratio between the</u> total transmitted power <u>and the maximum</u>
	transmission power. Total transmission power is the mean power [W] 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.
	Measurement shall be possible on any carrier transmitted from the UTRAN access point. The
	reference point for the total transmitted carrier power measurement shall be the antenna
	connector. In case of Tx diversity the total transmitted carrier power for each branch shall be
1	measured.
Range/mapping	Transmitted carrier power is given with a resolution of 10.5 %-unitdB with the range [0,,
	5100] %dBm Transmitted carrier power shall be reported in the unit UTRAN_TX_POWER
	where:
1	
	UTRAN_TX_POWER _016: 0.0 dBm ≤ Transmitted carrier power < 0.5 dBm
	UTRAN_TX_POWER _017: 0.5 dBm ≤ Transmitted carrier power < 1.0 dBm
	UTRAN_TX_POWER _018: 1.0 dBm ≤ Transmitted carrier power < 1.5 dBm
	
	UTRAN_TX_POWER _114 49.0 dBm ≤ Transmitted carrier power < 49.5 dBm
	UTRAN_TX_POWER _115: 49.5 dBm ≤ Transmitted carrier power < 50.0 dBm
	UTRAN_TX_POWER _116: 50.0 dBm ≤ Transmitted carrier power < 50.5 dBm
	UTRAN_TX_POWER 000: Transmitted carrier power = 0 %
	<u>UTRAN_TX_POWER_001: 0 % < Transmitted carrier power ≤ 1 %</u>
	UTRAN_TX_POWER 002: 1 % < Transmitted carrier power ≤ 2 %
	UTRAN_TX_POWER 003: 2 % < Transmitted carrier power ≤ 3 %
	<u></u>
	UTRAN_TX_POWER _098: 97 % < Transmitted carrier power ≤ 98 %
	UTRAN_TX_POWER _099: 98 % < Transmitted carrier power ≤ 99 %
	UTRAN_TX_POWER _100: 99 % < Transmitted carrier power ≤ 100 %