

TSG-RAN Working Group 1 meeting #11
San Diego, USA
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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.

5.2.3 Transmitted carrier power

<p>Definition</p>	<p>Transmitted carrier power, is the <u>ratio between the total transmitted power and the maximum 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.</u> Measurement shall be possible on any carrier transmitted from the UTRAN access point. The reference point for the total-transmitted <u>carrier</u> power measurement shall be the antenna connector. In case of Tx diversity the total-transmitted <u>carrier</u> power for each branch shall be measured.</p>
<p>Range/mapping</p>	<p>Transmitted carrier power is given with a resolution of 10.5 %<u>0.5 %</u> with the range [0, ..., 5100 <u>5100</u>] %dBm. Transmitted carrier power shall be reported in the unit UTRAN_TX_POWER where:</p> <p>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 % UTRAN_TX_POWER_001: 0 % < Transmitted carrier power ≤ 1 % UTRAN_TX_POWER_002: 1 % < Transmitted carrier power ≤ 2 % UTRAN_TX_POWER_003: 2 % < Transmitted carrier power ≤ 3 % ... 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 %</p>