**3GPP TSG- Meeting #**

**, 20th to 24th May**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | (NR\_ext\_to\_71GHz-Core) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Charter, , Nokia | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_ext\_to\_71GHz-Core | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change 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](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Corrections to values for FR2-2 OTA total power dynamic range. Some of the orignal values included a minor error due to rounding to one decimal. To be consistent with previous requirement derivation the values should be selected as the trunkated value of 10log(NRB) considering one decimal.  Details as clarified in Tdoc R4-2407216. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Values in Table 9.4.3.3-2 are updated to be consistent with other values for OTA total power dynamic range using the same rounding. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | If not changed, the specified values FR2-2 will not be 100% consisting using the same rounding. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.4.3.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Sub-clause 9.4.3:

### 9.4.3 OTA total power dynamic range

#### 9.4.3.1 General

The OTA total power dynamic range is the difference between the maximum and the minimum transmit power of an OFDM symbol for a specified reference condition.

This requirement shall apply at each RIB supporting transmission in the *operating band*.

NOTE 1: The upper limit of the OTA total power dynamic range is the BS maximum carrier EIRP (Pmax,c,EIRP) when transmitting on all RBs. The lower limit of the OTA total power dynamic range is the average EIRP for single RB transmission in the same direction using the same beam. The OFDM symbol carries PDSCH and not contain RS or SSB.

#### 9.4.3.2 Minimum requirement for *BS type 1-O*

OTA total power dynamic range minimum requirement for *BS type 1-O* is specified such as for each NR carrier it shall be larger than or equal to the levels specified for the conducted requirement for *BS type 1-C* and *BS type 1-H* in table 6.3.3.2-1.

#### 9.4.3.3 Minimum requirement for *BS type 2-O*

OTA total power dynamic range minimum requirement for *BS type 2-O* is specified such as for each NR carrier it shall be larger than or equal to the levels specified in table 9.4.3.3-1 in FR2-1 and table 9.4.3.3-2 in FR2-2.

**Table 9.4.3.3-1: Minimum requirement for BS type 2-O total power dynamic range in FR2-1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SCS** | **OTA total power dynamic range (dB)** | | | |
| **(kHz)** | 50 MHz | 100 MHz | 200 MHz | 400 MHz |
| 60 | 18.1 | 21.2 | 24.2 | N/A |
| 120 | 15.0 | 18.1 | 21.2 | 24.2 |

Table 9.4.3.3-2: Minimum requirement for *BS type 2-O* total power dynamic range in FR2-2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SCS | OTA total power dynamic range (dB) | | | | |
| (kHz) | 100 MHz | 400 MHz | 800 MHz | 1600 MHz | 2000 MHz |
| 120 | 18.1 | 24.2 | N/A | N/A | N/A |
| 480 | N/A | 18.1 | 20.9 | 23.9 | N/A |
| 960 | N/A | 15.1 | 17.9 | 20.9 | 21.7 |