**3GPP TSG- Meeting # *R4-24xxxxx***

**, , -**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0006** | **rev** | **1** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | CR to TR38.870 on CBW scaling of the TRS requirement | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Apple, [Samsung, vivo] | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_FR1\_TRP\_TRS\_enh-Perf | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Incorporate agreements on addition of framework to scale requirements for additional channel bandwidths for n1, n28, n41, n77 and n78 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The framework for scaling and derivation of requirements for additional channel bandwidths for n1, n28, n41, n77 and n78 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missing framework for derivation and scaling of requirements for additional channel bandwidths for n1, n28, n41, n77 and n78 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | 38.161 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<Unchanged Sections Skipped>

### 4.3.5 CA band combinations

<Editor’s note: Example CA combinations can be further added. >

### 4.3.6 TRS requirements for additional channel bandwidths

The below framework shall be used for deriving TRS requirements for additional channel bandwidths.

- The core specification shall only list the requirement based on the channel bandwidth for which performance campaign has been carried out which, for example is 100 MHz for n41, n77 and n78 and 20 MHz for n28.

- A specific NOTE indicating derivation/scaling of the requirement for additional channel bandwidths can be listed under the table defining the TRS requirements.

- Scaled requirements for additional channel bandwidths is limited to bands n28 (additional channel bandwidth 10 MHz), n41, n77, n78 (additional channel bandwidth 20 MHz).

- Test frequencies defined in TS 38.508-1 shall be used as part of test parameter for the additional CBW.

- Based on traditional certification process of OTA requirements. Passing single requirement per band of each UE is sufficient.

The ratio of the channel bandwidths shall be used to derive and scale requirements on alternate CBW (20 MHz) for n41, n77 and n78 using the below formula.

Average\_TRS*20MHz* (dBm) = Average\_TRS*100MHz* (dBm) + 7 dB

The ratio of channel bandwidths shall be used to derive and scale requirements on alternate CBW (10 MHz) for n28, using the below formula.

Average\_TRS*10MHz* (dBm) =Average\_TRS*20MHz* (dBm) + [3] dB

<End of Changes >