**3GPP TSG- Meeting #**

**, , -**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.133** | **CR** | **Draft** | **rev** |  | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **x** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_HST\_FR2\_enh-Perf | | | | |  | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-10 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | At RAN4#110-bis [WF R4-2406412]:   * Agreement:   + RAN4 to define Minimum SSB\_RP values in the Table B.2.3-2: Conditions for inter-frequency measurements in FR2 for PC6 UEs     - The Minimum SSB\_RP values shall be defined based on the identified values agreed in the RAN5 reply LS discussion | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Defined Minimum SSB\_RP values in Table B.2.3-2: Conditions for inter-frequency measurements in FR2 for | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not all of the conditions for RRM requirements applicability for UE measurements procedures and performance requirements in RRC\_CONNECTED are defined for PC6. Conditions are needed for RAN5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | B.2.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | |  | | |
| ***affected:*** | | **x** |  | Test specifications | | | | TS 38.533 | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revision of R4-2408643. | | | | | | | | |

<Start of Change>

## B.2.3 Conditions for NR inter-frequency measurements

This clause defines the following conditions for NR inter-frequency measurements and corresponding procedures performed based on SSBs: SSB\_RP and SSB Ês/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.3-1 for FR1 NR cells.

The conditions are defined in Table B.2.3-2 for FR2 NR cells.

Table B.2.3-1: Conditions for inter-frequency measurements in FR1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | NR operating band groups Note1 | Minimum SSB\_RP | | SSB Ês/Iot |
|  |  | dBm / SCSSSB | | dB |
|  |  | SCSSSB = 15 kHz | SCSSSB = 30 kHz |  |
| Conditions | NR\_FDD\_FR1\_A, NR\_TDD\_FR1\_A, NR\_SDL\_FR1\_A | -125 | -122 | ≥ -4 |
|  | NR\_FDD\_FR1\_B | -124.5 | -121.5 |  |
|  | NR\_TDD\_FR1\_C | -124 | -121 |  |
|  | NR\_FDD\_FR1\_D, NR\_TDD\_FR1\_D | -124.5 | -120.5 |  |
|  | NR\_FDD\_FR1\_E, NR\_TDD\_FR1\_E | -123 | -120 |  |
|  | NR\_FDD\_FR1\_F | -122.5 | -119.5 |  |
|  | NR\_FDD\_FR1\_G, NR\_TDD\_FR1\_G | -122 | -119 |  |
|  | NR\_FDD\_FR1\_H | -121.5 | -118.5 |  |
|  | NR\_FDD\_ FR1\_N | -118.5 | -115.5 |  |
| NOTE 1: NR operating band groups are defined in clause 3.5.2. | | | | |

**Table B.2.3-2: Conditions for inter-frequency measurements in FR2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  |  | | | | | | | | | | | | |  |
|  |  | |  |  | | | | | | | | | | | | |  |
|  |  | |  |  | | | | | | | | | | | |  |  |
|  |  | |  |  | | | | | | | | | | | |  |  |
|  |  | |  |  | |  |  | | | |  | |  | | 6 | , 6 |  |
|  |  | |  |  | |  |  | | | |  | |  | | -105.9 |  |  |
|  |  | |  |  | |  |  | | | |  | |  | | -106.1 |  |  |
|  |  | |  |  | |  |  | | | |  | |  | |  |  |  |
|  |  | |  |  | |  |  | | | |  | |  | |  |  |  |
|  |  | |  |  | |  |  | | | |  | |  | | -105.9 |  |  |
|  |  | |  |  | | | |  | |  | |  |
|  |  | |  |  | |  |  | | | |  | |  | | -97.9 |  |  |
|  |  | |  |  | |  |  | | | |  | |  | | -98.1 |  |  |
|  |  | |  |  | |  |  | | | |  | |  | |  |  |  |
|  |  | |  |  | |  |  | | | |  | |  | |  |  |  |
|  |  | |  |  | |  |  | | | |  | |  | | -97.9 |  |  |
|  |  | |  |  | | | |  | |  | |  |
|  | | | | | | | | | | | | | | | | | |

*Editor’s notes for Table B.2.3-2:*

*- The value of Y for power classes 1, 4 and 5 is FFS, where Y1, Y4 and Y5 are the rough/fine beam gain differences in Rx beam peak direction for power classes 1, 4 and 5 respectively*

*- The value of Z for power classes 1, 4 and 5 is FFS, where Z1, Z4 and Z5 are the rough/fine beam gain differences in spherical coverage directions for power classes 1, 4 and 5 respectively*

<End of Change>