**3GPP TSG-RAN WG4 Meeting #96-eR4-2012292**

**Electronic Meeting, 17 – 28 August, 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** |  | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  |
| *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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Draft Big CR for NR HST RRM performance requirements |
|  |  |
| ***Source to WG:*** | CMCC  |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_HST-Perf |  | ***Date:*** | 2020-09-01 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-16 |
|  | *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 canbe 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | The draft big CR includes the following endorsed CR/draft CR on the performance parts for NR HST: R4-2011118 on the SS-SINR accuracy for NR HST was endorsed in RAN4 #96-e meeting; |
|  |  |
| ***Summary of change:*** | The performance requirements for NR HST are specified. |
|  |  |
| ***Consequences if not approved:*** | The specification is not completed. |
|  |  |
| ***Clauses affected:*** | 10.1.12 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS38.533 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

<Start of Change 1>

### 10.1.12 Intra-frequency SINR accuracy requirements for FR1

10.1.12.1 Intra-frequency SS-SINR accuracy requirements in FR1

10.1.12.1.1 Absolute SS-SINR Accuracy in FR1

Unless otherwise specified, the requirements for absolute accuracy of SS-SINR in this clause apply to a cell on the same frequency as that of the serving cell in FR1.

The accuracy requirements in Table 10.1.12.1.1-1 are valid under the following conditions:

- Conditions defined in clause 7.3 of TS 38.101-1 [18] for reference sensitivity are fulfilled.

- Conditions for intra-frequency measurements are fulfilled according to Annex B.2.2 for a corresponding Band.

Table 10.1.12.1.1-1: SS-SINR Intra frequency absolute accuracy in FR1

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| --- | --- |
| Accuracy | Conditions |
| Normal condition | Extreme condition | SSB Ês/Iot Note 3 | Io Note 1 range |
| NR operating band groups Note 4 | Minimum Io | Maximum Io |
| dB | dB | dB |  | dBm / SCSSSB | dBm/BWChannel | dBm/BWChannel |
| SCSSSB = 15 kHz | SCSSSB = 30 kHz |
| ±3.0 | ±4 | ≥-3 | NR\_FDD\_FR1\_A, NR\_TDD\_FR1\_A,NR\_SDL\_FR1\_A | -121 | -118 | N/A | -50 |
| NR\_FDD\_FR1\_B | -120.5 | -117.5 | N/A | -50 |
| NR\_TDD\_FR1\_C | -120 | -117 | N/A | -50 |
| NR\_FDD\_FR1\_D, NR\_TDD\_FR1\_D | -119.5 | -116.5 | N/A | -50 |
| NR\_FDD\_FR1\_E, NR\_TDD\_FR1\_E | -119 | -116 | N/A | -50 |
| NR\_FDD\_FR1\_F | -118.5 | -115.5 | N/A | -50 |
| NR\_FDD\_FR1\_G | -118 | -115 | N/A | -50 |
| NR\_FDD\_FR1\_H | -117.5 | -114.5 | N/A | -50 |
| ±3.5 | ±4 | ≥-6 | Note 2 | Note 2 | Note 2 | Note 2 | Note 2 |
| NOTE 1: Io is assumed to have constant EPRE across the bandwidth.NOTE 2: The same bands and the same Io conditions for each band apply for this requirement as for the corresponding highest accuracy requirement.NOTE 3: The requirements apply for SSB Ês/Iot ≤ 25 dB under non-HST scenarios.NOTE 4: NR operating band groups in FR1 are as defined in clause 3.5.2.NOTE 5: The requirements apply for SSB Ês/Iot ≤5 dB with SCS 15kHz or 30kHz under NR high speed scenarios. |

<End of Change 1>