3GPP TSG-RAN WG4 Meeting # 95-e R4-2008405

Electronic Meeting, 25 May – 5 June, 2020

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38101-1** | **CR** | **0376** | **rev** | **1** | **Current version:** | **15.9.0** |  |
|  |
| *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:***  | CR for 38.101-1 to add the REFSENS exception for inter band CA with SDL |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core |  | ***Date:*** | 2020-05-13 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-15 |
|  | *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)* |
|  |  |
| ***Reason for change:*** | The descriptions of allowed exceptions are missing. |
|  |  |
| ***Summary of change:*** | To specify the descriptions of allowed exceptions. |
|  |  |
| ***Consequences if not approved:*** | The descriptions of allowed exceptions are missing. |
|  |  |
| ***Clauses affected:*** | 7.3A.2.4 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.521-1  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## **<<Start of Change1>>**

#### 7.3A.2.4 Reference sensitivity power level for SDL bands

For band combinations including operating bands without uplink band (as noted in Table 5.2-1), the requirements are specified in Table 7.3A.2.4-1 and for any band with uplink the uplink configuration specified in Table 7.3.2-3. The throughput of each carrier shall be ≥ 95% of the maximum throughput of the reference measurement channels, as specified in Annexes A.2.2, A.2.3, A.3.2, and A.3.3 (with one‑sided dynamic OCNG Pattern OP.1 FDD/TDD for the DL-signal, as described in Annex A.5.1.1/A.5.2.1). The reference sensitivity is defined to be met with all downlink component carriers active and one of the uplink carriers active. Exceptions to reference sensitivity are allowed in accordance with clause 7.3A.4.

Table 7.3A.2.4-1: Reference sensitivity for SDL bands

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| NR Band/Channel bandwidth |
| NR CA Configuration | NR band | SCS (kHz) | 5 MHz | 10 MHz | 15 MHz | 20 MHz | 25 MHz | 30 MHz | 40 MHz | 50 MHz | 60 MHz | 80 MHz | 90 MHz | 100 MHz |
| dB | dB | dB | dB | dB | dB | dB | dB | dB | dB | dB | dB |
| CA\_n8A-n75A | n8 | 15 | -97.0 | -93.8 | -92.0 | -90.0 |  |  |  |  |  |  |  |  |
| 30 |  | -94.1 | -92.1 | -90.2 |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| n75 | 15 | -100 | -96.8 | -95.0 | -93.8 |  |  |  |  |  |  |  |  |
| 30 |  | -97.1 | -95.1 | -94.0 |  |  |  |  |  |  |  |  |
| 60 |  | -97.5 | -95.4 | -94.2 |  |  |  |  |  |  |  |  |
| CA\_n28A-n75A | n28 | 15 | -98.5 | -95.5 | -93.5 | -90.8 |  |  |  |  |  |  |  |  |
| 30 |  | -95.6 | -93.6 | -91.0 |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| n75 | 15 | -100 | -96.8 | -95.0 | -93.8 |  |  |  |  |  |  |  |  |
| 30 |  | -97.1 | -95.1 | -94.0 |  |  |  |  |  |  |  |  |
| 60 |  | -97.5 | -95.4 | -94.2 |  |  |  |  |  |  |  |  |
| CA\_n75A-n78A1 | n75 | 15 | -100 | -96.8 | -95.0 | -93.8 |  |  |  |  |  |  |  |  |
| 30 |  | -97.1 | -95.1 | -94.0 |  |  |  |  |  |  |  |  |
| 60 |  | -97.5 | -95.4 | -94.2 |  |  |  |  |  |  |  |  |
| n78 | 15 |  | -95.8 | -94.0 | -92.7 |  |  | -89.6 | -88.6 |  |  |  |  |
| 30 |  | -96.1 | -94.1 | -92.9 |  |  | -89.7 | -88.7 | -87.9 | -86.6 | -86.1 | -85.6 |
| 60 |  | -96.5 | -94.4 | -93.1 |  |  | -89.9 | -88.8 | -88.0 | -86.7 | -86.2 | -85.7 |
| CA\_n76A-n78A1 | n76 | 15 | -100 |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| n78 | 15 |  | -95.8 | -94.0 | -92.7 |  |  | -89.6 | -88.6 |  |  |  |  |
| 30 |  | -96.1 | -94.1 | -92.9 |  |  | -89.7 | -88.7 | -87.9 | -86.6 | -86.1 | -85.6 |
| 60 |  | -96.5 | -94.4 | -93.1 |  |  | -89.9 | -88.8 | -88.0 | -86.7 | -86.2 | -85.7 |
| NOTE 1: The transmitter shall be set to PUMAX, as defined in clause 6.2.4.NOTE 2: Four Rx antenna ports shall be the baseline for this operating band, except for two Rx vehicular UE. |

## **<<End of Change1>>**