**3GPP TSG-RAN4 Meeting #116  *R4-2509862***

**Bengaluru, India, 25th August 2025 - 29th August 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-1** | **CR** | **2915** | **rev** | **-** | **Current version:** | **17.18.0** |  |
|  | | | | | | | | |
| *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:*** | (NR\_CADC\_R17\_2BDL\_xBUL-Core) CR to correct and clarify the applicable RB allocations for 30kHz SCS when UE testing in clause 7.3A.1 - TS 38.101-1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Anritsu Limited | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_R17\_2BDL\_xBUL-Core | | | | |  | ***Date:*** | | | 2025-08-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | The following change is needed:   * The equivalence given in Table 7.3A.1-1 for 5MHz channel bandwidth is not necessary as there are currently no band supporting 5MHz with 30kHz SCS, the corresponding column should be removed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the column for 5MHz CBW in Table 7.3A.1-1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | It may confuse readers in believing that there are currently bands supporting 30kHz SCS with 5MHz channel bandwidth. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.3A.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Similar changes are required for TS 38.101-3, the corresponding CR is TBD. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | This CR is a revision of CR R4-2509862. | | | | | | | | |

<<Unchanged sections skipped>>

<<Start of change>>

## 7.3A Reference sensitivity for CA

### 7.3A.1 General

The reference sensitivity power level REFSENS is the minimum mean power applied to each one of the UE antenna ports for all UE categories, at which the throughput shall meet or exceed the requirements for the specified reference measurement channel. For operations with 4 Rx antenna ports, the MSD in the applicable bands shall be increased by the absolute value of ΔRIB,4R in Table 7.3.2-2 when MSD > 0.

For reference sensitivity exception test points where the specified carrier frequency does not correspond to a valid NR-ARFCN, the closest NR-ARFCN as specified in clause 5.4.2 applies.

For reference sensitivity level tests or reference sensitivity exception tests specified in clause 7.3A, SCS=15kHz based UL test configuration can be replaced by SCS=30kHz based UL test configuration. The equivalent substitution relationship between different SCS UL test configuration is shown in table 7.3A.1-1 for the operating bands above 2.2GHz.

Table 7.3A.1-1: Equivalent substitution relationship between different SCS UL test configuration

| SCS (kHz) | (BW[MHz], Lcrb) | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | (10, 50) | (15, 75) | (20, 100) | (25, 128) | (30, 160) | (35, 180) | (40, 216) | (45, 240) | (50, 270) |
| 30 | (10, 24) | (15, 36) | (20, 50) | (25, 64) | (30, 75) | (35, 90) | (40, 100) | (45, 108) | (50, 128) |



When UEsupports higher power class than default power class for a CA configuration with a single UL CC with DL CA and applicability note for the supported power class is not present for this configuration in clause 5.5A.

- if the corresponding higher power class MSD is not specified, reference sensitivity and exceptions for reference sensitivity of default power class shall be verified with output power limited to default power class

- otherwise, the higher power class reference sensitivity and exceptions for reference sensitivity shall be verified with the power class of CA configuration supported by the UE.

**<<Unchanged parts of the section skipped>>**

<<End of change>>