**3GPP TSG-RAN4 Meeting #116bisR4**-**2513450r1**

Prague, CZ, 13-17 Oct, 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-5** | **CR** | - | **rev** | - | **Current version:** | **19.2.0** |  |
|  | | | | | | | | |
| *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:*** | draftCR on NTN frequency range defintion (38.101-5) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Xiaomi | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_NTN\_Ku\_bands-Core | | | | |  | ***Date:*** | | | 10/03/2025 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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:*** | | In Rel-19, on introduction of Ku bands, RAN4 agreed to introduce separate bands for same frequency range with FR1-NTN numerology or FR2-NTN numerology. RAN4 agreed to introduce Ku bands in existing frequency range designation instead of introducing new frequency ranges, the frequency range of existing FR1-NTN and FR2-NTN were extended with overlapping frequency ranges.  It’s ambiguous which bands belongs to FR1-NTN and which bands belong to FR2-NTN on these overalpping range. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Under NTN requency range designation table, clarify FR-NTN bands with band numering between 1-256 and FR2-NTN bands numbering between 257-512. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | It’s ambiguous which bands belongs to FR1-NTN and which bands belong to FR2-NTN on these overalpping range. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

------------------------------Start of change--------------------------------------------------------------

## 5.1 General

The channel arrangements presented in this clause are based on the operating bands and channel bandwidths defined in the present Release of specifications.

NOTE: Other operating bands and channel bandwidths may be considered in future Releases.

Requirements throughout the RF specifications are in many cases defined separately for different frequency ranges (FR). The frequency ranges in which NTN satellite can operate according to this version of the specification are identified as described in Table 5.1-1.

Table 5.1-1: Definition of NTN frequency ranges

|  |  |
| --- | --- |
| Frequency range designation | Corresponding frequency range |
| FR1-NTN(Note 1) | 410 MHz – 14500 MHz |
| FR2-NTN(Note 2) | 10700 MHz – 30000 MHz |
| NOTE 1: NTN bands within this frequency range with band numbering less than or equal to 256 are regarded as a FR1 band when references from other specifications.  NOTE 2: NTN bands within this frequency range with band numbering from 257 to 512 are regarded as a FR2-1 band when references from other specifications unless otherwise stated. | |

--------------------------------------End of change--------------------------------