**3GPP TSG-RAN Meeting #116bis *R4-2515130***

**Prague, Czech Republic, October 13th - 17th, 2025**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.133** | **CR** | **DRAFT** | **rev** | **1** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | | | UICC apps | | | |  | ME | **X** | Radio Access Network | | | | |  | Core Network |  |
|  | | | | | | | | | | | | | | | | | | |
| ***Title:*** | Draft CR38.133 Correction to applicability requirements for RedCap in NTN | | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | |
| ***Work item code:*** | NR\_NTN\_Ph3-Core | | | | | | | | |  | ***Date:*** | | | 2025-10-03 | | | | |
|  |  | | | | |  | | | | |  | | |  | | | | |
| ***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. | | | | | | | | | | | | *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:*** | | Applicability requirements for RedCap in NTN were introduced at RAN4 #116 in the Big CR R4-2509295. However, it is left unclear which RRM core requirements are referred to in TS 38.133 and whether requirements introduced for the DL coverage enhancement feature apply also for RedCap UE with FR1-NTN. | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | |
| ***Summary of change:*** | | Applicability requirements for RedCap in NTN are clarified to be specified in clauses with suffix ‘D’, ‘E’ or ‘F’, respectively.  In addition, the applicability of requirements for UE supporting 160ms SSB periodicity assumed during initial access is clarified to not apply for RedCap UEs not supporting this NTN ph3 feature, since RedCap UE may also support the DL coverage enhancement feature. | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | |
| ***Consequences if not approved:*** | | RRM core requirements for RedCap in NTN are left ambiguous, although specific clauses with suffix ‘D’, ‘E’ or ‘F’ were added. Wrong applicability or requirements for RedCap UEs supporting DL coverage enhancement feature. | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | |
| ***Clauses affected:*** | | 3.6.20 | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | |
|  | | **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:*** | | None. | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | |
| ***This CR's revision history:*** | | Revision of R4-25144490. | | | | | | | | | | | | | | | | |

|  |
| --- |
|  |

**--- Start of change 1 ---**

### 3.6.20 Applicability of requirements for RedCap UE with satellite access

The requirements for RedCap UEs with satellite access defined in clauses with suffix ‘D’, ‘E’ or ‘F’, respectively, apply provided that UE indicates *whether the UE supports (e)RedCap UE with FR1-NTN* and is accessing a cell served by a Satellite Access Node (SAN) and operating in FR1-NTN bands. The requirements apply provided that serving and all neighbour satellites on the same layer are of same satellite type (LEO or GEO). The applicability defined for RedCap UEs in clause 3.6.11 is also applicable to RedCap UEs with satellite access except for FR2 related requirements.

In addition, the requirements for UE supporting 160ms SSB periodicity assumed during initial access do not apply for RedCap UE operating in FR1-NTN bands, unless the RedCap UE supports *twoSMTC-Periodicities-r19*.

**--- End of change 1 ---**