**3GPP TSG-RAN WG2 Meeting #130 *R2-2504910***

**St. Julian’s, Malta, 19 - 23 May, 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.306** | **CR** | **1318** | **rev** | **-** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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 | **X** | Core Network |  |

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| ***Title:*** | Correction on *servingCellMO* configuration for SSB-less SCell | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE Corporation, Sanechips, Ericsson, Nokia, Huawei, HiSilicon, Apple, Samsung, Qualcomm Incorporated, MediaTek Inc. | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2025-05-21 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | RAN2 concluded in RAN2#130 to introduce UE capability to indicate whether UE supports the configuration of servingCellMO for a SSB-less SCell and  a UE supporting this feature shall also support NR intra-frequency measurements on neighbor cells based on servingCellMO associated with SCell that does not transmit SS/PBCH block. And network would only configure servingCellMO for SSB-less SCell if UE indicate such capability.  **Impact analysis**  Impacted 5G architecture options:  NR SA, (NG)EN-DC, NE-DC, NR-DC  Impacted functionality:  RRM measurements  Inter-operability:  If the network is implemented according to the CR and the UE is not, there is no inter-operability issue as the network will not configure *servingCellMO* for SSB-less SCell when not receiving the new UE capability.  If the UE is implemented according to the CR and the network is not, the network may configure *servingCellMO* for UE not supporting such configuration but there will be no inter-operability issue as UE not supporting such configuration will not follow what NW configure. | | | | | | | | |
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| ***Summary of change:*** | | Clarify that *servingCellMO* is not configured for SSB-less SCell unless the new UE capability is reported. | | | | | | | | |
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| ***Consequences if not approved:*** | | *servingCellMO* for SSB-less SCell may be configured to the UE not supporting it. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.9 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS/TR 38.331 CR 5394  TS/TR 38.300 CR 0998 | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
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| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Start of Change

### 4.2.9 *MeasAndMobParameters*

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| **Definitions for parameters** | **Per** | **M** | **FDD-TDD DIFF** | **FR1-FR2 DIFF** |
| Unrelated part omitted | | | | |
| ***independentGapConfigPRS-r17***  Indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 for PRS measurement, as specified in clause 9.1.2 of TS 38.133 [5]. | UE | No | No | No |
| ***intraAndInterF-MeasAndReport***  Indicates whether the UE supports NR intra-frequency and inter-frequency measurements and at least periodical reporting. This field only applies to SN configured measurement when (NG)EN-DC is configured. For NR SA, MN and SN configured measurement when NR-DC is configured, and MN configured measurement when NE-DC is configured, this feature is mandatory supported. | UE | Yes | Yes | No |
| ***intraF-NeighMeasForSCellWithoutSSB***  Indicates whether the UE supports the configuration of *servingCellMO* for SCell that does not transmit SS/PBCH block. A UE supporting this feature shall also support NR intra-frequency measurements on neighbor cells based on *servingCellMO* associated with SCell that does not transmit SS/PBCH block.  UE indicating support of this feature shall also indicate support of *scellWithoutSSB* or *scellWithoutSSB-InterBandCA-r18* or both. | UE | No | No | FR1 only |
| ***interFrequencyMeas-NoGap-r16***  Indicates whether the UE can perform inter-frequency SSB based measurements without measurement gaps if the SSB is completely contained in the active BWP of the UE as specified in TS 38.133 [5]. If this parameter is indicated for FR1 and FR2 differently, each indication corresponds to the frequency range of cells to be measured. | UE | No | No | Yes |
| ***interSatMeas-r17***  Indicates whether the UE supports inter-satellite measurement as specified in TS 38.331 [9]. It is mandatory if the UE supports *nonTerrestrialNetwork-r17*. | UE | CY | No | No |
| Unrelated part omitted | | | | |

End of Change