**3GPP TSG-RAN WG2 Meeting #130 *R2-2504908***

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

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.306** | **CR** | **1316** | **rev** | **-** | **Current version:** | **16.20.0** |  |
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| *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 |
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| ***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-16 |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***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 anda 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-DCImpacted functionality:RRM measurementsInter-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 5392TS/TR 38.300 CR 0996 |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***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 |
| ***independentGapConfig***This field indicates whether the UE supports two independent measurement gap configurations for FR1 and FR2 specified in clause 9.1.2 of TS 38.133 [5]. The field also indicates whether the UE supports the FR2 inter-RAT measurement without gaps when (NG)EN-DC is not configured. | 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*. | 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 |
| ***maxNumberCLI-RSSI-r16***Defines the maximum number of CLI-RSSI measurement resources for CLI RSSI measurement. If the UE supports *cli-RSSI-Meas-r16*, the UE shall report this capability. | UE | CY | TDD only | No |
| Unrelated part omitted |

End of Change