**3GPP TSG-RAN2 Meeting #128 *R2-24xxxxx***

**Orlando, US, 18 – 22 Nov, 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.306** | **CR** | **-** | **rev** | **-** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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:*** | Capability on simultaneous reception of EUTRAN data and NR SSB with different numerology | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_MG\_enh2 | | | | |  | ***Date:*** | | | 2024-11-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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:*** | | In RAN4 feature list R4-2410748/R2-2406232, the LTE feature group “Simultaneous reception of EUTRAN data and NR SSB with different numerology” was added.  However, this has not been captured in the specification. | | | | | | | | |
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| ***Summary of change:*** | | Capture the LTE UE feature “Simultaneous reception of EUTRAN data and NR SSB with different numerology” in the specification.  **Impact analysis**  Impacted functionality:  Inter-RAT measurements  Inter-operability:  If the UE is implemented according to this CR but the network is not, or vice versa, the consequences if not approved remain. | | | | | | | | |
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| ***Consequences if not approved:*** | | Scheduling restriction is applicable. | | | | | | | | |
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| ***Clauses affected:*** | | 4.3.6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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

### 4.3.6 Measurement parameters

<unrelated parts omitted>

4.3.6.53 *interRAT-NeedForInterruptionNR-r18*

This field defines for each supported E-UTRA band or band combination whether interruption is required to perform SSB based inter-RAT measurements without gap on each supported NR band. Value *no-gap-with-interruption* indicates measurement gap is not needed but interruption is needed, and value *no-gap-no-interruption* indicates neither measurement gap nor interruption is needed. The UE shall only include this field if it indicates measurement gap is not required in the corresponding *interRAT-NeedForGapsNR-r16* field.

4.3.6.xx *simultaneousRxDataSSB-DiffNumerology-r18*

This field defines whether the UE supports concurrent SSB-based inter-RAT measurement on NR cell and PDCCH or PDSCH reception from the serving cell with a different numerology. The UE shall only include this field if it indicates support of *interRAT-NeedForInterruptionNR-r18* for at least one target band in at least one band combination. This field only applies if *interRAT-NeedForInterruptionNR-r18* is reported for the target band in the band combination.End of Change