**3GPP TSG-RAN WG2 Meeting #121 R2-230XXX**

**Athens, Greece, 27th Feb. – 3rd Mar. 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **XXX** | **rev** | **-** | **Current version:** | **17.3.0** |  |
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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 RLM/BFD relaxation for SCG deactivation |
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| ***Source to WG:*** | [] |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_UE\_pow\_sav\_enh-Core |  | ***Date:*** | 2023-03-03 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | In the case of SCG deactivation and bfd-and-RLM is set to true, UE should perform the RLM/BFD according to the requirements for SCG deactivation of *measCyclePSCell* as specified in TS 38.133. In this case, the field *measCyclePSCell* should be present in this case.  |
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| ***Summary of change:*** | In the field description of “*measCyclePSCell*”, clarify that it is present in the case of SCG deactivation and bfd-and-RLM is set to true.**Impact analysis**Impacted 5G architecture options: SA, NR-DC, EN-DC, NE-DCImpacted functionalityRLM/BFD Inter-operability: 1. If the network is implemented according to the CR and the UE is not, there is no impact.
2. If the UE is implemented according to the CR and the network is not, there may be no corresponding requirement for RLM/BFD in case of SCG deactivation and bfd-and-RLM is set to true.
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| ***Consequences if not approved:*** | Network may not configure the field “*measCyclePSCell*” in case of SCG deactivation and bfd-and-RLM is set to true. |
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| ***Clauses affected:*** | 6.3.2 |
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|  | **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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

Start of change

*– MeasObjectNR*

The IE *MeasObjectNR* specifies information applicable for SS/PBCH block(s) intra/inter-frequency measurements and/or CSI-RS intra/inter-frequency measurements.

***MeasObjectNR* information element**

-- ASN1START

-- TAG-MEASOBJECTNR-START

MeasObjectNR ::= SEQUENCE {

 ssbFrequency ARFCN-ValueNR OPTIONAL, -- Cond SSBorAssociatedSSB

<TEXT OMITTED>

 measCyclePSCell-r17 ENUMERATED {ms160, ms256, ms320, ms512, ms640, ms1024, ms1280, spare1}

 OPTIONAL, -- Cond SCG

<TEXT OMITTED>

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| ***MeasObjectNR* field descriptions** |
| <TEXT OMITTED> |
| ***measCyclePSCell***The parameter is used only when the PSCell is configured on the frequency indicated by the *measObjectNR* and the SCG is deactivated, see TS 38.133 [14]. The field may also be configured when the PSCell is not configured on that frequency. Value ms*160* corresponds to 160 ms, value *ms256* corresponds to 256 ms and so on. |
| <TEXT OMITTED> |

<TEXT OMITTED>

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| **Conditional Presence** | **Explanation** |
| <TEXT OMITTED> |
| *SCG* | This field is optionally present, Need R, in the *measConfig* associated with the SCG. This field is mandatory present in the *measConfig* for the deactivated SCG when *bfd-and-RLM* is set. It is absent in the *measConfig* associated with the MCG.  |
| <TEXT OMITTED> |

End of change