**3GPP TSG-RAN WG4 Meeting #112 R4-2411432**

**Maastricht, Netherlands, August 19 – 23, 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | 4670 | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | CR for BWP wor maintenance | | | | | | | | | |
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| ***Source to WG:*** | Apple | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_BWP\_wor-Core | | | | |  | ***Date:*** | | | 2024-07-01 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Transition between NCD-SSB and CD-SSB is supported in this work item, including RLM, BFD, L1-RSRP, L1-SINR and L3 measurement. Minimum requirements at transition between NCD-SSB and CD-SSB have been specified for RLM and BFD. However, they are still missing in L1 and L3 measurement. | | | | | | | | |
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| ***Summary of change:*** | | Add similar minimum requirements at transition between NCD-SSB and CD-SSB in L1 and L3 measurement. | | | | | | | | |
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| ***Consequences if not approved:*** | | Corresponding requirements would still be missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.1.6, (new) 9.5.7, (new) 9.8.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS 38.533 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**<< START OF CHANGES >>**

### 9.1.6 Minimum requirement at transitions

When the measurement on one intra-frequency measurement object transitions from measurements performed outside gaps to measurements performed within gaps or vice versa during one measurement period, the cell identification and measurement period requirements with the longer delay apply.

The carrier-specific scaling factor specified in clause 9.1.5 that applies to the other impacted measurement objects will also apply based on the longer measurement or cell identification delay before or after the transition.

When the UE transitions between DRX and non-DRX or when DRX cycle periodicity changes, the cell identification and measurement period requirements apply based on the longer delay before or after the transition.

Subsequent to this measurement period, the cell identification and measurement period requirements on each measurement object are corresponding to the second mode after transition.

For UE supporting *ncd-SSB-BWP-Wor-r18*, when the intra-frequency measurement transitions from measurements performed on CD-SSB to measurements performed on NCD-SSB or vice versa due to BWP switching or SCG activation/deactivation during one cell identification period or measurement period, the UE shall use a cell identification period that is the maximum of the cell identification periods or measurement periods corresponding to the first SSB type and the second SSB type after the BWP switching or SCG activation/deactivation.

Subsequent to the above-mentioned measurement periods and/or cell identification periods, the cell identification and measurement period requirements on each measurement object are based on the SSB type after the BWP switch or SCG activation/deactivation.

**<< UNCHANGED SECTIONS OMITTED >>**

#### 9.5.7 Minimum requirement at transitions

For UE supporting *ncd-SSB-BWP-Wor-r18*, when the L1-RSRP measurement transitions from measurements performed on CD-SSB to measurements performed on NCD-SSB or vice versa due to BWP switching during one measurement period, the UE shall use a L1-RSRP measurement period that is the maximum of the L1-RSRP measurement period corresponding to the first SSB type and the second SSB type after the BWP switching.

Subsequent to the above-mentioned measurement periods, the L1-RSRP measurement period requirements are based on the SSB type after the BWP switch.

**<< UNCHANGED SECTIONS OMITTED >>**

#### 9.8.7 Minimum requirement at transitions

For UE supporting *ncd-SSB-BWP-Wor-r18*, when the L1-SINR measurement transitions from measurements performed on CD-SSB to measurements performed on NCD-SSB or vice versa due to BWP switching during one measurement period, the UE shall use a L1-SINR measurement period that is the maximum of the L1-SINR measurement period corresponding to the first SSB type and the second SSB type after the BWP switching.

Subsequent to the above-mentioned measurement periods, the L1-SINR measurement period requirements are based on the SSB type after the BWP switch.

**<< END OF CHANGES >>**