**3GPP TSG-RAN5 Meeting #100 *R5-23XXXX***

**Toulouse, France, 21st Aug 2023 - 25th Aug 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.508-1** | **CR** |  | **rev** |  | **Current version:** | **17.9.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | Update MIB for NCD-SSB |
|  |  |
| ***Source to WG:*** | Huawei, Hisilicon |
| ***Source to TSG:*** | R5 |
|  |  |
| ***Work item code:*** | NR\_redcap\_plus\_ARCH-UEConTest |  | ***Date:*** | 2023-08-12 |
|  |  |  |  |  |
| ***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)* |
|  |  |
| ***Reason for change:*** | RRM have already introduced NCD-SSB measurement test cases (38.533 16.6.1.1/2/9/10), and SIG is planning to add a BWP test case (38.523-1 7.1.1.8.4) with one NCD-SSB configured in it. However the MIB for NCD-SSB is not configured in 38.508-1. |
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| ***Summary of change:*** | Update MIB for NCD-SSB and set the combination of kSSB and controlResourceSetZero and searchSpaceZero in pdcch-ConfigSIB1 to include no information for CD-SSB. |
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| ***Consequences if not approved:*** | Configuration of MIB for NCD-SSB is missing. |
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| ***Clauses affected:*** | 4.6.1 |
|  |  |
|  | **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 modified section 1>**

#### *– MIB*

Table 4.6.1-6: *MIB*

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| Derivation Path: TS 38.331 [6], clause 6.2.2 |
| Information Element | Value/remark | Comment | Condition |
| MIB ::= SEQUENCE { |  |  |  |
|  systemFrameNumber | A valid value as defined in TS 38.331 [6] |  |  |
|  subCarrierSpacingCommon | scs15or60 | For signalling test cases see clause 6.2.3, otherwise see clause 4.3.1. | SCS15or60 |
| scs30or120 | For signalling test cases see clause 6.2.3, otherwise see clause 4.3.1. | SCS30or120 |
|  ssb-subcarrierOffset | Set to the integer value of the 4 LSB of kSSB defined for the frequency of the cell | For signalling test cases see clause 6.2.3, otherwise see clause 4.3.1. |  |
|  | 15 | Note 1 | NCD-SSB |
|  dmrs-TypeA-Position | pos2 |  |  |
|  pdcch-ConfigSIB1 | PDCCH-ConfigSIB1 |  |  |
|  | 0 |  | NCD-SSB  |
|  cellBarred | notBarred |  |  |
|  intraFreqReselection | allowed |  |  |
|  spare | 0 |  |  |
| } |  |  |  |
| Note 1: For FR1, kSSB =31(1 MSB of kSSB is 1 and 4 LSB of kSSB is 15). 1 MSB of kSSB is in the PBCH payload specified in TS 38.211 clause 7.4.3.1. For FR2, kSSB=15. |

|  |  |
| --- | --- |
| Condition | Explanation  |
| SCS15or60 | SCS is 15kHz or 60kHz  |
| SCS30or120 | SCS is 30kHz or 120kHz. |
| NCD-SSB | MIB for NCD-SSB |

**<End of modified section 1>**