**3GPP TSG-RAN WG2 Meeting #129 R2-2500xxxx**

**Athens, Greece, 17th – 21st Feb. 2025**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  | **38.306** | **CR** | **1204** | **rev** | **2** | **Current version:** | **18.4.0** |  |
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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 UE capability on ncd-SSB-BWP-Wor-r18 |
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| ***Source to WG:*** | vivo, Qualcomm Incorporated, Guangdong Genius |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_BWP\_wor-Core |  | ***Date:*** | 2025-02-07 |
|  |  |  |  |  |
| ***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 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:*** | In TS 38.306, the current field description for *ncd-SSB-BWP-Wor-r18* only mentions the Bandwidth of UE-specific RRC configured BWP may not include bandwidth of the CORESET#0 (if CORESET#0 is present) and CD-SSB for PCell/PSCell (if configured). For PSCell case, the current wording may not be clear enough on whether it includes the case for CD-SSB-less PSCell, e.g. when the UE is configured only with the initial BWP which contains NCD-SSB, and there is no UE-specific BWP or other NCD-SSB; or when NCD-SSB is associated with both initial BWP and UE specific BWP, and UE’s active BWP is the initial BWP. In this way, the current specification may be mis-interpreted as *ncd-SSB-BWP-Wor-r18* is not applicable for the case that PSCell’s initial BWP or the active BWP is associated with NCD-SSB.According to RAN4 specifcation, UE will not measure NCD-SSB unless UE supports *ncd-SSB-BWP-Wor-r18* in this case. Thus, it is clear that *ncd-SSB-BWP-Wor-r18* is also applicable for the case that PSCell’s initial BWP or the active BWP is associated with NCD-SSB.In order to avoid any mis-interpretation on the current field decription for *ncd-SSB-BWP-Wor-r18*, it is better to change the corresponding clarifcation for PSCell in the field description for *ncd-SSB-BWP-Wor-r18* as: For PSCell (if configured), bandwidth of UE-specific RRC configured BWP needs not include bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB indicated by *absoluteFrequencySSB* (either CD-SSB or NCD-SSB). |
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| ***Summary of change:*** | Change the clarifcation in the field description for *ncd-SSB-BWP-Wor-r18* as: For PSCell (if configured), bandwidth of UE-specific RRC configured BWP needs not include bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB indicated by *absoluteFrequencySSB* (either CD-SSB or NCD-SSB).**Impact analysis**Impacted 5G architecture options: MR-DCImpacted functionality*ncd-SSB-BWP-Wor*Inter-operability: 1. If the network is implemented according to the CR and the UE is not, there is no inter-operability issue.
2. If the UE is implemented according to the CR and the network is not, there is no inter-operability issue.
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| ***Consequences if not approved:*** | It is not clear whether *ncd-SSB-BWP-Wor-r18* is applicable for the case that PSCell’s initial BWP or the active BWP is associated with NCD-SSB. |
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| ***Clauses affected:*** | 4.2.7.2 |
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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

#### 4.2.7.2 *BandNR parameters*

| **Definitions for parameters** | **Per** | **M** | **FDD-TDD****DIFF** | **FR1-FR2****DIFF** |
| --- | --- | --- | --- | --- |
| ***------------------------------Omit the unrelated part-------------------------------------*** |  |  |  |  |
| ***ncd-SSB-BWP-Wor-r18***Indicates whether the UE supports RLM/BM/BFD and gapless L3 intra-frequency measurements based on NCD-SSB within active BWP. For Pcell, bandwidth of UE-specific RRC configured BWP needs not include bandwidth of the CORESET#0 (if CORESET#0 is present) and CD-SSB. For PSCell (if configured), bandwidth of UE-specific RRC configured BWP needs not include bandwidth of the CORESET#0 (if CORESET#0 is present) and SSB indicated by *absoluteFrequencySSB* (either CD-SSB or NCD-SSB). NCD-SSB within the active DL BWP can be used as the QCL source for other reference signal. UE performs L3 intra-frequency measurements without gaps based on NCD-SSB, where the NCD-SSB is within the active DL BWP.NOTE: This feature applies only to PCell and PSCell (if configured). It is not applicable to RedCap or eRedCap UEs. | Band | No | N/A | N/A |
| ***------------------------------Omit the unrelated part-------------------------------------*** |  |  |  |  |

End of change