**3GPP TSG-RAN WG2 Meeting #130 R2-2504890**

**St. Julians, Malta, 19 - 23 May 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.306** | **CR** | **1286** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Correction on the field descriptions of less than 5Mhz | | | | | | | | | |
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| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_FR1\_lessthan\_5MHz\_BW-Core | | | | |  | ***Date:*** | | | 2025-05-22 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Currently, there are multiple field descriptions specifying something as below:  Indicates whether the UE supports 3 MHz channel bandwidth in uplink with larger than 3 MHz channel BW in DL, including short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS.  This feature is supported for 15kHz SCS only.  There is controdiction between the yellow part and the green part: on one hand, it says UE can support PRACH formats with 1.25khz SCS; on the other hand, it says this feature only supports 15kHz SCS. RAN1’s intention should be that except for the PRACH formats with 1.25kHz SCS, this feature only supports 15kHz SCS. This needs to be clarified to avoid confusion. | | | | | | | | |
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| ***Summary of change:*** | | Clarify that “This feature only supports 15kHz SCS (except for the PRACH formats with 1.25kHz SCS).” in the field descriptions of capability IEs for less than 5Mhz. | | | | | | | | |
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| ***Consequences if not approved:*** | | There is contradiction with the current descriptions which causes confusion. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.7.2, 4.2.7.10 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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

#### 4.2.7.2 *BandNR parameters*

| ***support3MHz-ChannelBW-Asymmetric-r18***  Indicates whether the UE supports 3 MHz channel bandwidth in uplink with larger than 3 MHz channel BW in DL, including short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS.  This feature is supported for 15kHz SCS only (except for the PRACH formats with 1.25kHz SCS). It applies to bands where the UE indicates support for *asymmetricBandwidthCombinationSet* with 3 MHz UL according to clause 5.3.6 of TS 38.101-1 [2].  This feature is not applicable to UEs indicating *supportOfRedCap-r17* or *supportOfERedCap-r18*.  NOTE 1: The UE supporting this feature supports configuration of 15 PRB UL BWP operation.  NOTE 2: If the UE indicates support in *asymmetricBandwidthCombinationSet* for a 3MHz UL in a band according to clause 5.3.6 of 38.101-1 [2], this feature shall be indicated for the band. | Band | No | FDD only | FR1 only |
| --- | --- | --- | --- | --- |
| ***support3MHz-ChannelBW-Symmetric-r18***  Indicates whether the UE supports 3 MHz symmetric channel bandwidth in DL and UL, including the following functional components:  *-* Reception of 12 PRB PBCH based on RB-level puncturing;  *-* Short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS;  *-* Reception of 15 PRB CORESET0.  This feature is supported for 15kHz SCS only (except for the PRACH formats with 1.25kHz SCS). It is applicable when an associated SS/PBCH block is located according to Table 5.4.3.3-2 in TS 38.101-1 [2].  This feature is not applicable to UEs indicating *supportOfRedCap-r17* or *supportOfERedCap-r18*.  NOTE: The UE supporting this capability supports configuration of 15 PRB BWP operation in DL and UL. | Band | No | FDD only | FR1 only |

Next Change

#### 4.2.7.10 *Phy-Parameters*

| ***support5MHz-ChannelBW-20PRB-CORESET0-r18***  Indicates whether the UE supports short RACH preamble formats with 15kHz SCS, and long PRACH formats with 1.25kHz SCS, and the reception of 20 PRB CORESET0. This feature is supported for 15 kHz SCS only (except for the PRACH formats with 1.25kHz SCS).  This feature is only applicable when an associated SS/PBCH block is located in band n100 at GSCN 41638 of Table 5.4.3.1-3 in TS 38.101-1 [2].  This feature is not applicable to UEs indicating *supportOfRedCap-r17* or *supportOfERedCap-r18*.  NOTE: The UE supporting this feature supports configuration of 20 PRB BWP operation. | UE | No | FDD only | FR1 only |
| --- | --- | --- | --- | --- |
| ***support12PRB-CORESET0-GSCN-41637-r18***  Indicates whether the UE supports reception of 12 PRB CORESET0 with an associated SS/PBCH block located at GSCN 41637.  A UE supporting this feature shall also indicate support of *support3MHz-ChannelBW-Symmetric-r18*. This feature is supported for 15 kHz SCS only (except for the PRACH formats with 1.25kHz SCS).  This feature is only applicable when an associated SS/PBCH block is located in band n100 at GSCN 41637 of Table 5.4.3.1-3 in TS 38.101-1 [2].  NOTE: The UE supporting this FG supports configuration of 12 PRB BWP operation.  This feature is not applicable to UEs indicating *supportOfRedCap-r17* or *supportOfERedCap-r18*. | UE | No | FDD only | FR1 only |

End of Change