**3GPP TSG RAN WG1 #108-e** **R1-22xxxxx**

e-Meeting, February 21st – March 3rd, 2022

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.213** | **CR** |  | **rev** |  | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** | Introduction of carrier BW smaller than 40 MHz for n79 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | R1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_bands\_R17\_BWs-Core | | | | |  | ***Date:*** | | | 2022-03-07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Correction to maintain backward compatibility due to the minimum bandwidth change of n79 (see LS R4-2202286). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Capture how a UE determines a number of consecutive RBs and a number of consecutive symbols for the CORESET linked to the Type0-PDCCH CSS set when the UE is in band n79. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Legacy UEs and Rel-17 UEs may use different tables to determine the CORESET for Type0-PDCCH CSS set. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 13 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

## 13 UE procedure for monitoring Type0-PDCCH CSS sets

\*\*\* Unchanged text is omitted \*\*\*

Table 13-3: Set of resource blocks and slot symbols of CORESET for Type0-PDCCH search space set when {SS/PBCH block, PDCCH} SCS is {30, 15} kHz for frequency bands with minimum channel bandwidth 5 MHz or 10 MHz except for the frequency bands given in [5, TS38.101-1]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | SS/PBCH block and CORESET multiplexing pattern | Number of RBs | Number of Symbols | Offset (RBs) |
| 0 | 1 | 48 | 1 | 2 |
| 1 | 1 | 48 | 1 | 6 |
| 2 | 1 | 48 | 2 | 2 |
| 3 | 1 | 48 | 2 | 6 |
| 4 | 1 | 48 | 3 | 2 |
| 5 | 1 | 48 | 3 | 6 |
| 6 | 1 | 96 | 1 | 28 |
| 7 | 1 | 96 | 2 | 28 |
| 8 | 1 | 96 | 3 | 28 |
| 9 | Reserved | | | |
| 10 | Reserved | | | |
| 11 | Reserved | | | |
| 12 | Reserved | | | |
| 13 | Reserved | | | |
| 14 | Reserved | | | |
| 15 | Reserved | | | |

Table 13-4: Set of resource blocks and slot symbols of CORESET for Type0-PDCCH search space set when {SS/PBCH block, PDCCH} SCS is {30, 30} kHz for frequency bands with minimum channel bandwidth 5 MHz or 10 MHz except for the frequency bands given in [5, TS38.101-1]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | SS/PBCH block and CORESET multiplexing pattern | Number of RBs | Number of Symbols | Offset (RBs) |
| 0 | 1 | 24 | 2 | 0 |
| 1 | 1 | 24 | 2 | 1 |
| 2 | 1 | 24 | 2 | 2 |
| 3 | 1 | 24 | 2 | 3 |
| 4 | 1 | 24 | 2 | 4 |
| 5 | 1 | 24 | 3 | 0 |
| 6 | 1 | 24 | 3 | 1 |
| 7 | 1 | 24 | 3 | 2 |
| 8 | 1 | 24 | 3 | 3 |
| 9 | 1 | 24 | 3 | 4 |
| 10 | 1 | 48 | 1 | 12 |
| 11 | 1 | 48 | 1 | 14 |
| 12 | 1 | 48 | 1 | 16 |
| 13 | 1 | 48 | 2 | 12 |
| 14 | 1 | 48 | 2 | 14 |
| 15 | 1 | 48 | 2 | 16 |

\*\*\* Unchanged text is omitted \*\*\*

Table 13-5: Set of resource blocks and slot symbols of CORESET for Type0-PDCCH search space set when {SS/PBCH block, PDCCH} SCS is {30, 15} kHz for frequency bands with minimum channel bandwidth 40MHz or for the frequency bands given in [5, TS38.101-1]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | SS/PBCH block and CORESET multiplexing pattern | Number of RBs | Number of Symbols | Offset (RBs) |
| 0 | 1 | 48 | 1 | 4 |
| 1 | 1 | 48 | 2 | 4 |
| 2 | 1 | 48 | 3 | 4 |
| 3 | 1 | 96 | 1 | 0 |
| 4 | 1 | 96 | 1 | 56 |
| 5 | 1 | 96 | 2 | 0 |
| 6 | 1 | 96 | 2 | 56 |
| 7 | 1 | 96 | 3 | 0 |
| 8 | 1 | 96 | 3 | 56 |
| 9 | Reserved | | | |
| 10 | Reserved | | | |
| 11 | Reserved | | | |
| 12 | Reserved | | | |
| 13 | Reserved | | | |
| 14 | Reserved | | | |
| 15 | Reserved | | | |

Table 13-6: Set of resource blocks and slot symbols of CORESET for Type0-PDCCH search space set when {SS/PBCH block, PDCCH} SCS is {30, 30} kHz for frequency bands with minimum channel bandwidth 40MHz or for the frequency bands given in [5, TS38.101-1]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | SS/PBCH block and CORESET multiplexing pattern | Number of RBs | Number of Symbols | Offset (RBs) |
| 0 | 1 | 24 | 2 | 0 |
| 1 | 1 | 24 | 2 | 4 |
| 2 | 1 | 24 | 3 | 0 |
| 3 | 1 | 24 | 3 | 4 |
| 4 | 1 | 48 | 1 | 0 |
| 5 | 1 | 48 | 1 | 28 |
| 6 | 1 | 48 | 2 | 0 |
| 7 | 1 | 48 | 2 | 28 |
| 8 | 1 | 48 | 3 | 0 |
| 9 | 1 | 48 | 3 | 28 |
| 10 | Reserved | | | |
| 11 | Reserved | | | |
| 12 | Reserved | | | |
| 13 | Reserved | | | |
| 14 | Reserved | | | |
| 15 | Reserved | | | |

\*\*\* Unchanged text is omitted \*\*\*