**3GPP TSG-RAN WG4 Meeting #111 *draft rev1*** ***R4-2407576***

**Fukuoka, Japan, May 20th – 24st, 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-1** | **CR** | **-** | **rev** | **-** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | draftCR for 38.101-1 to add PC3 inter-band (4 bands DL with 2 band UL) NR CA | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | DISH Network, Samsung, Fujitsu | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_R18\_yBDL\_xBUL-Core | | | | |  | ***Date:*** | | | 2024-5-8 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The following inter-band NR-CA combination with PC3 needs to be supported. No new MSD, therefore draft CR is adopted.   |  |  |  | | --- | --- | --- | | **DL Configuration** | **UL Configuration** | **Notes** | | CA\_n48(2A)-n66-n70A-n77A | CA\_n48A-n66A  CA\_n48A-n70A  CA\_n66A-n77A CA\_n70A-n77A | All fallbacks have been specified in the current specification | | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the requested inter-band NR-CA combination with PC3 as listed in the above table. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The requested inter-band NR-CA combinations with PC3 are not specified in current spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.5A.3.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS/TR 38.521-1 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**--- Start of changes ---**

#### 5.5A.3.3 Configurations for inter-band CA (four bands)

Table 5.5A.3.3-1: Void

**--- Unaffected parts ommited---**

Table 5.5A.3.3-1b: NR CA configurations and bandwidth combinations sets defined for inter-band CA (four bands)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NR CA configuration | Uplink CA configuration  or single uplink carrier 4 | NR Band | Channel bandwidth (MHz) (NOTE 3) | Bandwidth combination set |

**--- Unaffected parts ommited---**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n41A-n66A-n71A-n85A | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n41A-n85A  CA\_n66A-n71A  CA\_n66A-n85A | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n85 | n85 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n66A-n77A-n85A | CA\_n41A-n66A CA\_n41A-n77A CA\_n41A-n85A CA\_n66A-n77A CA\_n66A-n85A CA\_n77A-n85A | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n85 | n85 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n48A-n66A-n70A-n71A | CA\_n48A-n66A CA\_n48A-n70A CA\_n48A-n71A CA\_n66A-n71A CA\_n70A-n71A | n48 | 5, 10, 15, 20, 30, 40, 508, 608, 708, 808, 908, 1008 | 0 |
|  |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40 |  |
|  |  | n70 | 5, 10, 15, 20, 25 |  |
|  |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48A-n66A-n70A-n77A | CA\_n48A-n66A CA\_n48A-n70A CA\_n66A-n77A CA\_n70A-n77A | n48 | 5, 10, 15, 20, 30, 40, 508, 608, 708, 808, 908, 1008 | 0 |
|  |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40 |  |
|  |  | n70 | 5, 10, 15, 20, 25 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48A-n66(2A)-n70A-n77A | CA\_n48A-n66A CA\_n66A-n77A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  |  | n70 | 5, 10, 15, 20, 25 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48(2A)-n66A-n70A-n77A | CA\_n48A-n66A  CA\_n48A-n70A  CA\_n66A-n77A CA\_n70A-n77A | n48 | CA\_n48(2A)\_BCS0 | 0 |
| n66 | 5, 10, 15, 20, 25, 30, 35, 40 |
| n70 | 5, 10, 15, 20, 25 |
| n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |
| CA\_n48A-n66A-n71A-n77A | CA\_n48A-n66A CA\_n48A-n71A CA\_n66A-n71A CA\_n66A-n77A CA\_n71A-n77A | n48 | 5, 10, 15, 20, 30, 40, 508, 608, 708, 808, 908, 1008 | 0 |
|  |  | n66 | 5, 10, 15, 20, 25, 30, 35, 40 |  |
|  |  | n71 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48A-n66(2A)-n71A-n77A | CA\_n48A-n66A CA\_n48A-n71A CA\_n66A-n71A CA\_n66A-n77A CA\_n71A-n77A | n48 | 5, 10, 15, 20, 30, 40, 508, 608, 708, 808, 908, 1008 | 0 |
|  |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  |  | n71 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n48 | 5, 10, 15, 20, 30, 40, 508, 608, 708, 808, 908, 1008 | 1 |
|  |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  |  | n71 | 5, 10, 15, 20 |  |

**--- End of changes ---**