**3GPP TSG-RAN WG4 Meeting #113 R4-2418800**

Orlando, USA,18 – 22 Nov., 2024

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-1** | **CR** |  | **rev** | **-** | **Current version:** | **18.7.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Draft CR for TS 38101-1 to add CA\_n1A-n3A-n7A-n75A-n78A | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Hisilicon, Deutsche Telekom | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_SUL\_R19 | | | | |  | ***Date:*** | | | 2024-11-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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 17) Rel-17 (Release 18) Rel-18 (Release 19) Rel-19 (Release 20)* | |
|  |  | | | | | | | | | |
| Reason for change: | | The current specification TS 38.101-1 has not included CA combination CA\_n1A-n3A-n7A-n75A-n78A.  The correspongding fallbacks are all completed in the previous meeting. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the CA\_n1A-n3A-n7A-n75A-n78A combination in the spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The above mentioned combination is not supported in the spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.5A.3.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS 38.521-1 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

## **<<Start of Change>>**

#### 5.5A.3.4 Configurations for inter-band CA (five bands)

Table 5.5A.3.4-1: NR CA configurations and bandwidth combinations sets defined for inter-band CA (five bands)

| **NR CA configuration** | **Uplink configuration**  **or single uplink carrier 2** | **NR Band** | **Channel bandwidth (MHz) (NOTE 1)** | **Bandwidth combination set** |
| --- | --- | --- | --- | --- |
| CA\_n1A-n3A-n5A-n7A-n78A | CA\_n1A-n3A  CA\_n1A-n5A  CA\_n1A-n7A  CA\_n1A-n78A  CA\_n3A-n5A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n5A-n7A  CA\_n5A-n78A  CA\_n7A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n5 | 5, 10, 15, 20 |  |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |

**…**

**< Non-changed part is omitted >**

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| --- | --- | --- | --- | --- |
| CA\_n1A-n3A-n7A-n67A-n78(2A) | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n1A-n78A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A  CA\_n78(2A) | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 |  |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n67 | 5, 10, 15, 20 |  |
|  |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n1A-n3A-n7A-n75A-n78A | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n1A-n78A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n75 | n75 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | n78 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n1A-n3A-n7A-n78A-n105A | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n1A-n78A  CA\_n1A-n105A  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n3A-n105A  CA\_n7A-n78A  CA\_n7A-n105A  CA\_n78A-n105A | n1 | 5, 10,15, 20, 25, 30, 40, 50 | 0 |
|  |  | n3 | 5, 10,15, 20, 25, 30, 40, 50 |  |
|  |  | n7 | 5, 10,15, 20, 25, 30, 40, 50 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n105 | 5, 10,15, 20, 25, 30, 35 |  |

**…**

**< Non-changed part is omitted >**

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| --- | --- | --- | --- | --- |
| CA\_n25(2A)-n41A-n66A-n71A-n77A | n413,4  n773,4  CA\_n25A-n41A3  CA\_n25A-n66A  CA\_n25A-n71A  CA\_n25A-n77A3  CA\_n41A-n66A3  CA\_n41A-n71A3  CA\_n41A-n77A3  CA\_n66A-n71A  CA\_n66A-n77A3  CA\_n71A-n77A3 | n25 | CA\_n25(2A)\_BCS 4 and 5 | 4 and 5 |
|  |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| NOTE 1: For each channel bandwidth of each component carrier, refer to Table 5.3.5-1 of TS 38.101-1 and TS 38.101-2 for the applicable SCSs for NR FR1 and NR FR2 bands respectively. For a given band, not all UE channel bandwidths support the same SCSs.  NOTE 2: Only single uplink carriers with power class other than PC3 are listed.  NOTE 3: Minimum requirements for Power Class 2 are applicable for this uplink combination or single uplink carrier in this downlink/uplink combination.  NOTE 4: For a band combination which includes band n7 and n38 simultaneously, carriers in band n7 and n38 can only be configured as downlink carriers. Power imbalance between downlink carriers on Band n7 and Band n38 is assumed to be within 6dB.  NOTE 5: Power Class 1.5 is allowed for this single uplink carrier in this downlink/uplink combination.  NOTE 6: For this bandwidth, the minimum requirements are restricted to operation when carrier is configured as a downlink SCell part of CA configuration | | | | |

## **<<End of Change>>**