**3GPP TSG RAN-WG4 Meeting #116-bis *R4-2514251***

**Prague, Czech Republic, 13th - 17th October 2025**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-1** | **CR** |  | **Rev** | **-** | **Current version:** | **19.3.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Draft CR for adding some new 3DL NRCA band combinations to TS 38.101-1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | KDDI, Samsung | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_SUL\_R19-Core | | | | |  | ***Date:*** | | | 2025-10-01 |
|  |  | | | |  | |  | | |  |
| ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To introduce 5 new specific requirements for 3-band combination in the category of Objective #3: NR\_CADC\_R19\_3BDL\_yBUL (y=1,2) for TS 38.101-1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * Following PC3 NR CA 3-band combinations are added to TS 38.101-1 Version 19.3.0.   + DL CA\_n3A-n41B-n77(2A) with single UL and UL CA\_n3A-n41A,   CA\_n3A-n77A and CA\_n41A-n77A)   * + DL CA\_n18A-n28A-n77(2A) with UL CA\_n77(2A)   + DL CA\_n28A-n41B-n77(2A) with single UL and UL CA\_n28A-n41A, CA\_n28A-n77A and CA\_n41A-n77A)   + DL CA\_n40A-n41A-n77A with single UL   + DL CA\_n40A-n41B-n77A with single UL | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The above required combinations are not supported in the specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.5A.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 Changes>>**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Unchanged Tables/parts Omitted \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 5.5A.3.2 Configurations for inter-band CA (three bands)

Table 5.5A.3.2-1: Void

##### Table 5.5A.3.2-1a

Table 5.5A.3.2-1a: NR CA configurations and bandwidth combinations sets defined for inter-band CA (three bands)

| NR CA configuration | Uplink CA configuration  or single uplink carrier6 | NR Band | Channel bandwidth (MHz) (NOTE 3) | Bandwidth combination set |
| --- | --- | --- | --- | --- |
| CA\_n3A-n41B-n77A | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n41A-n77A | n3 | 5, 10, 15, 20 | 0 |
|  |  | n41 | CA\_n41B\_BCS0 |  |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n41B-n77(2A) | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n41A-n77A | n3 | 5, 10, 15, 20 | 0 |
|  |  | n41 | CA\_n41B\_BCS0 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n3A-n41A-n77(2A) | n417,9  n777,9  CA\_n3A-n41A7  CA\_n3A-n77A7  CA\_n41A-n77A7  CA\_n77(2A)7 | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | - | n3 | See n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n41 | See n41 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n77 | CA\_n77(2A)\_BCS4 and 5 |  |
| CA\_n3A-n41A-n77(3A) | n417,9  n777,9  CA\_n3A-n41A7  CA\_n3A-n77A7  CA\_n41A-n77A7  CA\_n77(2A) | n3 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | CA\_n77(3A)\_BCS1 |  |

##### *Table 5.5A.3.2-1b*

*Table 5.5A.3.2-1b: NR CA configurations and bandwidth combinations sets defined for inter-band CA (three bands)*

| *NR CA configuration* | *Uplink CA configuration*  *or single uplink carrier6* | *NR Band* | *Channel bandwidth (MHz) (NOTE 3)* | *Bandwidth combination set* |
| --- | --- | --- | --- | --- |
| CA\_n18A-n28A-n41A | n417,9  CA\_n18A-n28A  CA\_n18A-n41A7  CA\_n28A-n41A7 | n18 | 5, 10, 15 | 0 |
|  |  | n28 | 5, 10 |  |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n18A-n28A-n77A | n777,9  CA\_n18A-n28A  CA\_n18A-n77A7  CA\_n28A-n77A7 | n18 | 5, 10, 15 | 0 |
|  |  | n28 | 5, 10 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n18A-n28A-n77(2A) | n777,9  CA\_n18A-n28A  CA\_n18A-n77A7  CA\_n28A-n77A7  CA\_n77(2A) | n18 | 5, 10, 15 | 0 |
|  |  | n28 | 5, 10 |  |
|  |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n18A-n28A-n77(3A) | n777,9  CA\_n18A-n28A  CA\_n18A-n77A7  CA\_n28A-n77A7 | n18 | 5, 10, 15 | 0 |
|  |  | n28 | 5, 10 |  |
|  |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n18A-n41A-n77A | n417  n777  CA\_n18A-n41A7  CA\_n18A-n77A7  CA\_n41A-n77A7 | n18 | 5, 10, 15 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n28A-n40A-n79A | CA\_n28A-n40A  CA\_n28A-n79A  CA\_n40A-n79A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n28 | n28 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n79 | n79 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n28A-n41A-n74A | n417  CA\_n28A-n41A7  CA\_n41A-n74A7 | n28 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n74 | 5, 10, 15, 20 |  |
|  | - | n28 | 5, 10, 15, 20, 30 | 1 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n74 | 5, 10, 15, 20 |  |
| CA\_n28A-n41A-n75A | - | n28 | 5,10, 15, 20, 25,30 | 0 |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n75 | 5,10, 15, 20, 25,30,40,50 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n28A-n41A-n75A | - | n28 | 5,10, 15, 20, 25,30 | 0 |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n75 | 5,10, 15, 20, 25,30,40,50 |  |
| CA\_n28A-n41A-n77A | n417,9  n777,9  CA\_n28A-n41A7 | n28 | 5, 10, 15, 20, 30 | 0 |
|  | CA\_n28A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | CA\_n41A-n77A7 | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n41B-n77A | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n41A-n77A | n28 | 5, 10 | 0 |
|  |  | n41 | CA\_n41B\_BCS0 |  |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n41B-n77(2A) | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n41A-n77A | n28 | 5, 10 | 0 |
|  |  | n41 | CA\_n41B\_BCS0 |  |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n28A-n41A-n77(2A) | n417,9  n777,9  CA\_n28A-n41A7 | n28 | 5, 10, 15, 20, 30 | 0 |
|  | CA\_n28A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | CA\_n41A-n77A7  CA\_n77(2A)7 | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n28A-n41A-n77(3A) | n417,9  n777,9  CA\_n28A-n41A7  CA\_n28A-n77A7  CA\_n41A-n77A7  CA\_n77(2A) | n28 | 5, 10 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n28A-n71A-n77(2A) | CA\_n28A-n77A  CA\_n71A-n77A | n28 | n28 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n77 | CA\_n77(2A)\_BCS4 and 5 |  |
| CA\_n28A-n74A-n77A | n777  CA\_n28A-n77A  CA\_n74A-n77A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n74 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | - | n28 | 5, 10, 15, 20, 30 | 1 |
|  |  | n74 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n75A-n78A | - | n28 | 5, 10, 15, 20 | 0 |
|  |  | n75 | 5, 10, 15, 20 |  |
|  |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n39A-n41C-n79A | CA\_n39A-n41A  CA\_n39A-n79A  CA\_n41A-n79A | n39 | See n39 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n41 | CA\_n41C\_BCS 4 and 5 |  |
|  |  | n79 | See n79 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n40A-n41A-n77A | - | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n40A-n41B-n77A | - | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | 0 |
|  |  | n41 | CA\_n41B\_BCS0 |  |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n40A-n41A-n79A | CA\_n40A-n41A  CA\_n40A-n79A  CA\_n41A-n79A | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | 0 |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 100 |  |
|  |  | n79 | , 40, 50, 60, 80, 100 |  |
|  |  | n40 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  |  | n41 | 10, 15, 20, 40, 50, 60 |  |
|  |  | n79 | , 40, 50, 60, 80, 100 |  |
|  |  | n40 | See n40 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n41 | See n41 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n79 | See n79 channel bandwidths in Table 5.3.5-1 |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Unchanged Tables/parts Omitted \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## **<<End of Changes>>**