**3GPP TSG-RAN WG4 Meeting #116 *rev* R4-2509886**

**Bengaluru, India,** **25th -29th August, 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-1** | **CR** |  | **rev** | **-** | **Current version:** | **19.2.0** |  |
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| *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 include CA configurations of 3BDL | | | | | | | | | |
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| ***Source to WG:*** | Huawei, Hisilicon | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_SUL\_R19-Core | | | | |  | ***Date:*** | | | 2025-8-15 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
|  |  | | | | | | | | | |
| ***c*** | | Part of this draft CR is initially submitted as R4-2503221 during RAN4#114bis，but was postponed due to concerns about introducing a new optional 5MHz minimum for n41.  Finally, after two meetings discussion, it was agreed in RAN4#115 that for MSD analyses, consider 10MHz as the smallest DL CBW for band n41 (refer to R4-2507700). We resubmitted this draft CR and add some BCS0/1 combinations.  BCS 4 and BCS 5 configurations for following CA band combinations of three DL bands are requested by operators. They can be added directly since BCS 0 and/or BCS 1 configurations are already supported, and per R4-2508050, even though a 5MHz CBW is optional for n41, MSD analyses should use 10MHz as the minimum DL CBW.  For CA\_n7-n28-n40, BCS 4 and 5 introduce a minimum CBW of 5 MHz for n40 compared to BCS 0. However, the current spec already includes 5M n40 MSD. Therefore, the addition of BCS 4 and 5 is introduced through this CR.  CA\_n1A-n3A-n8A  CA\_n1A-n8A-n41A  CA\_n1A-n8A-n78(2A)  CA\_n1A-n20A-n41A  CA\_n3A-n8A-n41A  CA\_n3A-n8A-n78A  CA\_n3A-n8A-n78(2A)  CA\_n3A-n20A-n41A  CA\_n7A-n28A-n40A  CA\_n1A-n7A-n40A  CA\_n3A-n7A-n40A  CA\_n7A-n8A-n40A  BCS 0/1 configurations for following CA band combinations of three DL bands are requested by operators. They can be added directly since fallbacks are already supported or submitted this meeting.  CA\_n28A-n41A-n75A  CA\_n28A-n41A-n78A  CA\_n28A-n75A-n78A  CA\_n41A-n75A-n78A | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | To introduce BCS 4 and BCS 5 configurations for the aforementioned CA band combinations consist of three bands. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The combinations mentioned above are not supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.5A.3.2 | | | | | | | | |
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|  | | **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.3.2 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\_n1A-n3A-n5A | CA\_n1A-n3A  CA\_n1A-n5A  CA\_n3A-n5A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n5 | 5, 10, 15, 20 |  |

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| CA\_n1A-n3B-n7B | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n3A-n7A  CA\_n7B | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  |  | n3 | CA\_n3B\_BCS0 |  |
|  |  | n7 | CA\_n7B\_BCS0 |  |
|  | CA\_n3B | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 1 |
|  |  | n3 | CA\_n3B\_BCS1 |  |
|  |  | n7 | CA\_n7B\_BCS0 |  |
| CA\_n1A-n3A-n8A | CA\_n1A-n3A  CA\_n1A-n8A  CA\_n3A-n8A | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n1 | 5,10,15,20,25,30,40,45,50 | 1 |
|  |  | n3 | 5,10,15,20,25,30,35,40,45,50 |  |
|  |  | n8 | 5,10,15,20 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n1A-n3(2A)-n8A | CA\_n1A-n3A  CA\_n1A-n8A  CA\_n3A-n8A | n1 | 5, 10, 15, 20 | 0 |
|  |  | n3 | CA\_n3(2A)\_BCS0 |  |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n1 | 5,10,15,20,25,30,40,45,50 | 1 |
|  |  | n3 | CA\_n3(2A) BCS 4 & 5 |  |
|  |  | n8 | 5,10,15,20 |  |

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| --- | --- | --- | --- | --- |
| CA\_n1(2A)-n7A-n38A10 | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n7A-n40A | CA\_n1A-n7A  CA\_n1A-n40A  CA\_n7A-n40A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n1A-n7A-n67A | CA\_n1A-n7A | n1 | 5, 10, 15, 20, 30, 40, 45, 50 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  |  | n67 | 5, 10, 15, 20 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n67 | n67 channel bandwidths in Table 5.3.5-1 |  |

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| CA\_n1A-n8A-n40A | CA\_n1A-n8A  CA\_n1A-n40A  CA\_n8A-n40A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n1A-n8A-n41A | CA\_n1A-n8A  CA\_n1A-n41A  CA\_n8A-n41A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 100 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n1A-n8A-n78C | CA\_n78C  CA\_n1A-n78C  CA\_n8A-n78C | n1 | See n1 channel bandwidths in Table 5.3.5-1 | 0 |
|  |  | n8 | See n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | CA\_n78C\_BCS 4 and 5 |  |

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| --- | --- | --- | --- | --- |
| CA\_n1A-n8A-n78C | CA\_n1A-n8A  CA\_n1A-n78A  CA\_n8A-n78A | n1 | See n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | See n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | CA\_n78C\_BCS4 and 5 |  |
| CA\_n1A-n8A-n78(2A) | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n78 | CA\_n78(2A)\_BCS1 |  |
|  | CA\_n1A-n8A CA\_n1A-n78A CA\_n8A-n78A | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | CA\_n78(2A)\_ BCS 4 and 5 |  |
| CA\_n1A-n8A-n79A | - | n1 | 5, 10, 15, 20 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |

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| CA\_n1A-n18A-n77(2A) | n777  CA\_n1A-n18A  CA\_n1A-n77A7  CA\_n18A-n77A7 | n1 | 5, 10, 15, 20 | 0 |
|  |  | n18 | 5, 10, 15 |  |
|  |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n18A-n77(3A) | n777  CA\_n1A-n18A  CA\_n1A-n77A7  CA\_n18A-n77A7 | n1 | 5, 10, 15, 20 | 0 |
|  |  | n18 | 5, 10, 15 |  |
|  |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n1A-n20A-n41A | CA\_n1A-n20A  CA\_n1A-n41A  CA\_n20A-n41A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  |  | n20 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n20 | n20 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n1A-n20A-n67A | CA\_n1A-n20A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n20 | 5, 10, 15, 20 |  |
|  |  | n67 | 5, 10, 15, 20 |  |
|  |  | n1 | n1 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n20 | n20 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n67 | n67 channel bandwidths in Table 5.3.5-1 |  |

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| CA\_n3(2A)-n7A-n38A10 | - | n3 | CA\_n3(2A)\_BCS1 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A-n7A-n40A | CA\_n3A-n7A  CA\_n3A-n40A  CA\_n7A-n40A | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n3A-n7A-n67A | CA\_n3A-n7A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  |  | n67 | 5, 10, 15, 20 |  |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n67 | n67 channel bandwidths in Table 5.3.5-1 |  |

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| CA\_n3A-n8A-n40A | CA\_n3A-n8A  CA\_n3A-n40A  CA\_n8A-n40A | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n3A-n8A-n41A | CA\_n3A-n8A  CA\_n3A-n41A  CA\_n8A-n41A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n3A-n8A-n77A | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |

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| CA\_n3A-n8A-n77(2A) | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n3A-n8A-n78A | CA\_n3A-n8A  CA\_n3A-n78A  CA\_n8A-n78A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | n78 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n3A-n8A-n78(2A) | CA\_n3A-n8A CA\_n3A-n78A CA\_n8A-n78A | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | CA\_n78(2A)\_BCS 4 and 5 |  |
| CA\_n3(2A)-n8A-n78A | CA\_n3A-n8A  CA\_n3A-n78A  CA\_n8A-n78A | n3 | CA\_n3(2A)\_BCS0 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |

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| --- | --- | --- | --- | --- |
| CA\_n3A-n20A-n28A | CA\_n3A-n20A  CA\_n3A-n28A  CA\_n20A-n28A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n20 | 5, 10, 15, 20 |  |
|  |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n3A-n20A-n41A | CA\_n3A-n20A  CA\_n3A-n41A  CA\_n20A-n41A | n3 | 5, 10, 15, 20, 25, 30, 45, 40, 45, 50 | 0 |
|  |  | n20 | 5, 10, 15, 20 |  |
|  |  | n41 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 |  |
|  |  | n3 | n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n20 | n20 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n3A-n20A-n71A | CA\_n3A-n20A  CA\_n3A-n71A  CA\_n20A-n71A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n20 | 5, 10, 15, 20 |  |
|  |  | n71 | 5, 10, 15, 20 |  |

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| --- | --- | --- | --- | --- |
| CA\_n7A-n8A-n28A | - | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n7A-n8A-n40A | CA\_n7A-n8A  CA\_n7A-n40A  CA\_n8A-n40A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n8 | n8 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n7A-n8A-n78A | CA\_n7A-n8A  CA\_n7A-n78A  CA\_n8A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n8 | 5, 10, 15, 20 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |

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| CA\_n7A-n28A-n38A11 | - | n7 | 5, 10, 15, 20, 30, 40, 50 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n38 | 5, 10, 15, 20, 30, 40 |  |
| CA\_n7A-n28A-n40A | CA\_n7A-n28A  CA\_n7A-n40A  CA\_n28A-n40A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  |  | n28 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n28 | n28 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n40 | n40 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n7A-n28A-n78A | n77  n787,9  CA\_n7A-n78A7,14  CA\_n28A-n78A7,14 | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | n77  n787,9  CA\_n7A-n28A  CA\_n7A-n78A7,14  CA\_n28A-n78A7,14 | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  |  | n28 | 5, 10, 15, 20 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n28 | n28 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n78 | n78 channel bandwidths in Table 5.3.5-1 |  |

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| --- | --- | --- | --- | --- |
| CA\_n28A-n41A-n74A | 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-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-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 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n28A-n41A-n78A | CA\_n28A-n41A  CA\_n41A-n78A  CA\_n28A-n78A | n28 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 90, 100 |  |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n28A-n41A-n78A | - | n28 | 5,10, 15, 20, 25,30 | 1 |
|  |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n78 | n78 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n28A-n41A-n78(2A) | CA\_n78(2A) | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n78 | CA\_n78(2A)\_BCS2 |  |

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n28A-n74A-n77A | 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 |  |
|  |  | n28 | 5,10, 15, 20, 25,30 | 1 |
|  |  | n75 | 5,10, 15, 20, 25,30,40,50 |  |
|  |  | n78 | n78 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n28A-n77A-n79A4 | n777,9  n797,9  CA\_n28A-n77A7  CA\_n28A-n79A7  CA\_n77A-n79A7 | n28 | 5, 10, 15, 20 | 0 |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n77A-n79A | n28 | n28 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |

…

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CA\_n41A-n74A-n77A | - | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n74 | 5, 10, 15, 20 |  |
|  |  | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n41A-n75A-n78A | - | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n75 | 5,10, 15, 20, 25,30,40,50 |  |
|  |  | n78 | 10, 15, 20, 25,30,40, 50, 60,70, 80, 90, 100 |  |
| CA\_n41A-n77A-n79A | n417,9  n777,9  n797,9  CA\_n41A-n77A7  CA\_n41A-n79A7  CA\_n77A-n79A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |

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

## **<<Next Change>>**

##### 6.2A.4.2.4 ΔTIB,c for Inter-band CA (three bands)

Table 6.2A.4.2.4-1: ΔTIB,c due to NR CA (three bands)

| Inter-band CA combination | ΔTIB,c for NR bands (dB)8 | | |
| --- | --- | --- | --- |
| Component band in order of bands in configuration9 | | |
| CA\_n1-n3-n5 | 0.3 | 0.3 | 0.3 |
| CA\_n1-n3-n7 | 0.6 | 0.6 | 0.6 |
| CA\_n1-n3-n8 | 0.3 | 0.3 | 0.3 |

…

|  |  |  |  |
| --- | --- | --- | --- |
| CA\_n28-n40-n79 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n41-n74 | 0.6 | 0.3 | 0.4 |
| CA\_n28-n41-n75 | 0.3 | 0.7 | N/A |
| CA\_n28-n41-n79 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n41-n77 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n41-n78 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n46-n78 | 0.5 | - | 0.8 |
| CA\_n28-n71-n77 | 1.1 | 1.1 | 0.8 |
| CA\_n28-n74-n77 | 0.6 | 0.4 | 0.8 |
| CA\_n28-n75-n78 | 0.3 | N/A | 0.8 |
| CA\_n28-n77-n79 | 0.5 | 0.8 | 0.5 |
| CA\_n28-n78-n79 | 0.5 | 0.8 / 1.57 | 0.5 / 1.57 |
| CA\_n28-n78-n102 | 0.5 | 1.5 | 1.5 |
| CA\_n29-n30-n66 | N/A | 0.3 | 0.5 |
| CA\_n29-n30-n77 | N/A | 0.3 | 0.5 |
| CA\_n29-n66-n70 | N/A | 0.5 | 0.5 |
| CA\_n29-n66-n71 | N/A | 0.3 | 0.5 |
| CA\_n29-n66-n77 | N/A | 0.6 | 0.8 |
| CA\_n29-n70-n71 | N/A | 0.3 | 0.6 |
| CA\_n30-n66-n77 | 0.3 | 0.6 | 0.8 |
| CA\_n34-n39-n41 | 0.3 | 0.5 | 0.5 |
| CA\_n34-n40-n41 | 0.3 | 0.5 | 0.5 |
| CA\_n34-n41-n79 | 0.3 | 0.5 | 0.8 |
| CA\_n38-n66-n78 | 0.5 | 0.5 | 0.8 |
| CA\_n39-n40-n41 | 0.3 | 0.3 / 0.610 | 0.3 / 0.610 |
| CA\_n39-n40-n79 | 0.3 | - | 0.8 |
| CA\_n39-n41-n79 | 0.3 | 0.3 | 0.8 |
| CA\_n40-n41-n79 | 0.5 | 0.5 | 0.8 |
| CA\_n40-n71-n77 | 0.3 | 0.5 | 0.8 |
| CA\_n40-78-n79 | 0.3 | 0.5 / 1.58 | 0.5 / 1.58 |
| CA\_n40-n78-n105 | 0.3 | 0.8 | 0.5 |
| CA\_n41-n66-n71 | 0.8 / 1.36 | 0.5 | 0.3 |
| CA\_n41-n66-n77 | 0.5 | 0.6 | 0.8 |
| CA\_n41-n66-n78 | 0.5 | 0.6 | 0.8 |
| CA\_n41-n66-n85 | 0.81 / 1.32 | 0.5 | 0.6 |
| CA\_n41-n70-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n41-n71-n77 | 0.3 | 0.5 | 0.8 |
| CA\_n41-n71-n78 | 0.3 | 0.5 | 0.8 |
| CA\_n41-n71-n85 | 0.3 | 1 | 1 |
| CA\_n41-n75-n78 | 0.7 | N/A | 0.8 |
| CA\_n41-n77-n79 | 0.3 | 0.8 | 0.8 |
| CA\_n41-n77-n85 | 0.6 | 0.8 | 0.8 |
| CA\_n46-n48-n96 | 0.5 | 0.8 | 0.6 |
| CA\_n46-n78-n102 | - | 1.5 | 1.5 |
| CA\_n48-n66-n70 | 0.8 | 0.6 | 0.6 |
| CA\_n48-n66-n71 | 0.5 | 0.5 | 0.3 |
| CA\_n48-n66-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n48-n70-n71 | 0.5 | 0.5 | 0.3 |
| CA\_n48-n70-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n48-n71-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n66-n70-n71 | 0.5 | 0.5 | 0.6 |
| CA\_n66-n70-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n66-n71-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n66-n71-n78 | 0.6 | 0.5 | 0.8 |
| CA\_n66-n71-n85 | 0.8 | 1 | 1 |
| CA\_n66-n77-n85 | 0.6 | 0.8 | 0.8 |
| CA\_n70-n71-n77 | 0.6 | 0.3 | 0.8 |
| NOTE 1: The requirement is applied for UE transmitting on the frequency range of 2515-2690 MHz.  NOTE 2: The requirement is applied for UE transmitting on the frequency range of 2496-2515 MHz.  NOTE 3: Void.  NOTE 4: Void.  NOTE 5: The requirement is applied for UE transmitting on the frequency range of 2545 - 2690 MHz.  NOTE 6: The requirement is applied for UE transmitting on the frequency range of 2496 - 2545 MHz.  NOTE 7: The requirements only apply for UE supporting inter-band carrier aggregation with simultaneous Rx/Tx capability, and NR UL carrier frequencies are confined to 3700 MHz-3800MHz for n78 and 4400 MHz-4500MHz for n79. Simultaneous Rx/Tx capability does not apply for UEs supporting band n78 with a n77 implementation.  NOTE 8: “-” denotes ΔTIB,c = 0.  NOTE 9: The component band order in the configuration should be listed by the order of NR bands, such as for CA\_n1-n3-n5 the band order from left to right is n1, n3 and n5.  NOTE 10: The requirements only apply for UE supporting inter-band carrier aggregation with simultaneous Rx/Tx capability. | | | |

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

## **<<Next Change>>**

##### 7.3A.3.2.3 ΔRIB,c for three bands

Table 7.3A.3.2.3-1: ΔRIB,c due to CA (three bands)

| Inter-band CA combination | ΔRIB,c for NR bands (dB)9 | | |
| --- | --- | --- | --- |
| Component band in order of bands in configuration10 | | |
| CA\_n1-n3-n8 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n3-n28 | - | - | 0.2 |
| CA\_n1-n3-n38 | 0.2 | 0.2 | - |

…

|  |  |  |  |
| --- | --- | --- | --- |
| CA\_n28-n40-n79 | 0.2 | - | 0.5 |
| CA\_n28-n41-n75 | 0.2 | - | - |
| CA\_n28-n41-n77 | 0.2 | - | 0.5 |
| CA\_n28-n41-n78 | 0.2 | - | 0.5 |
| CA\_n28-n41-n79 | 0.2 | 0.5 | 0.5 |
| CA\_n28-n46-n78 | 0.2 | - | 0.5 |
| CA\_n28-n75-n78 | 0.2 | - | 0.5 |
| CA\_n28-n77-n79 | 0.2 | 0.5 | - |
| CA\_n28-n78-n79 | 0.2 | 0.5 | - |
| CA\_n28-n78-n102 | 0.2 | 0.5 | 0.5 |
| CA\_n29-n30-n66 | - | 0.5 | 0.4 |
| CA\_n29-n30-n77 | 0.2 | - | 0.5 |
| CA\_n29-n66-n71 | 0.5 | 0.3 | 0.7 |
| CA\_n29-n66-n77 | 0.5 | 0.5 | 0.5 |
| CA\_n29-n70-n71 | 0.2 | 0.2 | 0.2 |
| CA\_n30-n66-n77 | 0.5 | 0.4 | 0.5 |
| CA\_n34-n39-n40 | 0.3 | 0.3 | 0.3 |
| CA\_n34-n39-n41 | 0.3 | 0.3 | 0.2 |
| CA\_n34-n40-n41 | 0.3 | 0.3 | - |
| CA\_n34-n41-n78 | - | 0.5 | 0.5 |
| CA\_n39-n40-n41 | 0.3 | 0.6 | 0.6 |
| CA\_n39-n40-n79 | 0.3 | 0.3 | 0.5 |
| CA\_n39-n41-n79 | 0 | 0.5 | 0.8 |
| CA\_n40-n41-n79 | 08 | 0.58 | 0.5 |
| CA\_n40-78-n79 | 0.4 | 0.5 | 0.5 |
| CA\_n40-n78-n105 | 0.4 | 0.5 | 0.2 |
| CA\_n41-n66-n71 | 0.51 / 12 | 0.5 | - |
| CA\_n41-n66-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n41-n66-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n41-n66-n85 | 0.51 / 12 | 0.5 | 0.5 |
| CA\_n41-n70-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n41-n71-n77 | - | 0.2 | 0.5 |
| CA\_n41-n71-n78 | - | 0.2 | 0.5 |
| CA\_n41-n71-n85 | - | 0.8 | 0.8 |
| CA\_n41-n75-n78 | - | - | 0.5 |
| CA\_n41-n77-n79 | 0.5 | 0.5 | 0.5 |
| CA\_n41-n77-n85 | 0.5 | 0.5 | 0.5 |
| CA\_n46-n48-n96 | 0.5 | 0.5 | 0.6 |
| CA\_n48-n66-n70 | 0.5 | 0.2 | 0.2 |
| CA\_n46-n78-n102 | - | 0.5 | - |
| CA\_n48-n66-n71 | 0.2 | 0.2 | 0.2 |
| CA\_n48-n66-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n48-n70-n71 | 0.2 | 0.2 | 0.2 |
| CA\_n48-n70-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n48-n71-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n66-n70-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n66-n71-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n66-n71-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n66-n71-n85 | - | 0.8 | 0.8 |
| CA\_n66-n77-n85 | 0.5 | 0.5 | 0.5 |
| CA\_n70-n71-n77 | 0.2 | 0.2 | 0.5 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz.  NOTE 3: Void.  NOTE 4: Void.  NOTE 5: The requirement is applied for UE transmitting on the frequency range of 2545 - 2690 MHz.  NOTE 6: The requirement is applied for UE transmitting on the frequency range of 2496 - 2545 MHz.  NOTE 7: Void.  NOTE 8: Void.  NOTE 9: “-” denotes ΔRIB,c = 0.  NOTE 10: The component band order in the configuration should be listed by the order of NR bands, such as for CA\_n1-n3-n8 the band order from left to right is n1, n3 and n8. | | | |

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