**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** |  |
|  |
| *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 canbe 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-n8ACA\_n1A-n8A-n41ACA\_n1A-n8A-n78(2A)CA\_n1A-n20A-n41ACA\_n3A-n8A-n41ACA\_n3A-n8A-n78ACA\_n3A-n8A-n78(2A)CA\_n3A-n20A-n41ACA\_n7A-n28A-n40ACA\_n1A-n7A-n40ACA\_n3A-n7A-n40ACA\_n7A-n8A-n40ABCS 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-n75ACA\_n28A-n41A-n78ACA\_n28A-n75A-n78ACA\_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 |
|  |  |
|  | **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 ...  |
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| ***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 configurationor single uplink carrier6 | NR Band | Channel bandwidth (MHz) (NOTE 3) | Bandwidth combination set |
| --- | --- | --- | --- | --- |
| CA\_n1A-n3A-n5A | CA\_n1A-n3ACA\_n1A-n5ACA\_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-n3ACA\_n1A-n7ACA\_n3A-n7ACA\_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-n3ACA\_n1A-n8ACA\_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-n3ACA\_n1A-n8ACA\_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-n7ACA\_n1A-n40ACA\_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-n8ACA\_n1A-n40ACA\_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-n8ACA\_n1A-n41ACA\_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\_n78CCA\_n1A-n78CCA\_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-n8ACA\_n1A-n78ACA\_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-n8ACA\_n1A-n78ACA\_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) | n777CA\_n1A-n18ACA\_n1A-n77A7CA\_n18A-n77A7 | n1 | 5, 10, 15, 20 | 0 |
|  |  | n18 | 5, 10, 15 |  |
|  |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n18A-n77(3A) | n777CA\_n1A-n18ACA\_n1A-n77A7CA\_n18A-n77A7 | n1 | 5, 10, 15, 20 | 0 |
|  |  | n18 | 5, 10, 15 |  |
|  |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n1A-n20A-n41A | CA\_n1A-n20ACA\_n1A-n41ACA\_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-n7ACA\_n3A-n40ACA\_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-n8ACA\_n3A-n40ACA\_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-n8ACA\_n3A-n41ACA\_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-n8ACA\_n3A-n78ACA\_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-n8ACA\_n3A-n78ACA\_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-n8ACA\_n3A-n78ACA\_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-n20ACA\_n3A-n28ACA\_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-n20ACA\_n3A-n41ACA\_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-n20ACA\_n3A-n71ACA\_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-n8ACA\_n7A-n40ACA\_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-n8ACA\_n7A-n78ACA\_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-n28ACA\_n7A-n40ACA\_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 | n77n787,9CA\_n7A-n78A7,14CA\_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 |  |
|  | n77n787,9CA\_n7A-n28ACA\_n7A-n78A7,14CA\_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-n41A7CA\_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 | n417,9n777,9CA\_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-n41ACA\_n28A-n77ACA\_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) | n417,9n777,9CA\_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-n77A7CA\_n77(2A)7 | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n28A-n41A-n77(3A) | n417,9n777,9CA\_n28A-n41A7CA\_n28A-n77A7CA\_n41A-n77A7CA\_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-n41ACA\_n41A-n78ACA\_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-n77ACA\_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 | n777,9n797,9CA\_n28A-n77A7CA\_n28A-n79A7CA\_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-n77ACA\_n28A-n79ACA\_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 |  |

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 | n417,9n777,9n797,9CA\_n41A-n77A7CA\_n41A-n79A7CA\_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>>**