**3GPP TSG-RAN WG4 Meeting #111 R4-2409303**

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

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **Current version:** | **.5.0** |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | DraftCR for TS 38.101-1 for CA\_n5-n13  |
|  |  |
| ***Source to WG:*** | Verizon, Ericsson, Samsung |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_CADC\_R18\_2BDL\_xBUL-Core |  | ***Date:*** | 20 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***Release:*** |  |
|  | *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)* |
|  |  |
| ***Reason for change:*** | TS 38.101-1: DraftCR for introducing downlink CA and DC configurations  |
|  |  |
| ***Summary of change:*** | Add inter-band downlink CA and DC configuration to the following combos* CA\_n5B-n13A
* DC\_n5B-n13A
 |
|  |  |
| ***Consequences if not approved:*** | The requirements for above band combinations are incomplete. |
|  |  |
| ***Clauses affected:*** | Table 5.5A.3.1-1d, Table 5.5B-1, Table 6.2B.1.3-1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS/TR ... CR ... 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.3.1 Configurations for inter-band CA (two bands)

<<Unchanged texts are omitted>>

Table 5.5A.3.1-1d: NR CA configurations and bandwidth combinations sets defined for inter-band CA (two bands)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NR CA configuration | Uplink CA configuration or single uplink carrier10 | NR Band | Channel bandwidth (MHz) (NOTE 3) | Bandwidth combination set |
| CA\_n5A-n7A | CA\_n5A-n7A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n7 | n7 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n7B | CA\_n5A-n7ACA\_n7B | n5 | 5, 10, 15, 20 | 0 |
|  |  | n7 | CA\_n7B\_BCS0 |  |
| CA\_n5A-n8A15 | - | n5 | 5, 10 | 0 |
|  |  | n8 | 5, 10 |  |
| CA\_n5A-n12A | CA\_n5A-n12A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n12 | 5, 10, 15 |  |
| CA\_n5B-n12A | CA\_n5A-n12ACA\_n5B | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n12 | 5, 10, 15 |  |
| CA\_n5A-n13A | CA\_n5A-n13A | n5 | 5, 10, 15, 20 | 4 and 5 |
|  |  | n13 | 5, 10 |  |
| CA\_n5B-n13A | CA\_n5A-n13A | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n13 | 5, 10 |  |
| CA\_n5A-n14A | CA\_n5A-n14A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n14 | 5, 10 |  |
| CA\_n5B-n14A | CA\_n5A-n14ACA\_n5B | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n14 | 5, 10 |  |
| CA\_n5A-n25A | CA\_n5A-n25A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n25 | n25 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n25(2A) | CA\_n5A-n25A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n25 | CA\_n25(2A)\_BCS0 |  |
| CA\_n5A-n28A | CA\_n5A-n28A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n28 | 5, 10, 15, 20, 30 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n28 | 5, 10, 15, 20, 25, 30 |  |
| CA\_n5A-n29A | - | n5 | 5, 10, 15, 20 | 0 |
|  |  | n29 | 5, 10 |  |
| CA\_n5B-n29A | CA\_n5B | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n29 | 5, 10 |  |
| CA\_n5A-n30A | CA\_n5A-n30A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n30 | 5, 10 |  |
| CA\_n5A-n40A | CA\_n5A-n40A | n5 | 5, 10, 15, 20, 251 | 0 |
|  |  | n40 | 55, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80,90,100 |  |
| CA\_n5A-n41A | CA\_n5A-n41A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n48A | CA\_n5A-n48A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n48 | 5, 10, 15, 20, 40, 506, 606, 806, 906, 1006 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n48 | 5, 10, 15, 20, 30, 40, 506, 606,706, 806, 906, 1006 |  |
| CA\_n5A-n48(2A) | CA\_n5A-n48A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n48 | CA\_n48(2A)\_BCS1 |  |
| CA\_n5A-n48B | CA\_n48BCA\_n5A-n48A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n48 | CA\_n48B\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n48 | CA\_n48B\_BCS2 |  |
| CA\_n5A-n48C | CA\_n5A-n48A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n48 | CA\_n48C\_BCS0 |  |
| CA\_n5A-n48(A-B) | CA\_n5A-n48A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n48 | CA\_n48(A-B)\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n48 | CA\_n48(A-B)\_BCS1 |  |
| CA\_n5A-n66A | CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n66 | 5, 10, 15, 20, 40 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n66B | CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n66 | CA\_n66B\_BCS0 |  |
| CA\_n5B-n66A | CA\_n5A-n66ACA\_n5B | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5B-n66B | CA\_n5A-n66A | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n66 | CA\_n66B\_BCS0` |  |
| CA\_n5A-n66(2A) | CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n5A-n66(3A) | CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n5B-n66(2A) | CA\_n5A-n66ACA\_n5B | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n5A-n71A | - | n5 | 5, 10, 15, 20 | 0 |
|  |  | n71 | 5, 10, 15, 20 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n77A | n778,9CA\_n5A-n77A8,13,14 | n5 | 5, 10, 15, 20 | 0 |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n77B | CA\_n5A-n77An778,9 | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n77 | CA\_n77B\_BCS 4 and 5 |  |
| CA\_n5A-n77(2A) | n778,9CA\_n5A-n77A8CA\_n77(2A)8 | n5 | 5, 10, 15, 20 | 0 |
|  |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n77 | CA\_n77(2A)\_BCS4 and 5 |  |
| CA\_n5A-n77(3A) | n778,9CA\_n77(2A)8CA\_n5A-n77A8 | n5 | 5, 10, 15, 20 | 0 |
|  |  | n77 | CA\_n77(3A)\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n77 | CA\_n77(3A)\_BCS1 |  |
|  |  | n5 | n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n77 | CA\_n77(3A)\_BCS4 and 5 |  |
| CA\_n5(2A)-n77A | n778,9CA\_n5A-n77A8 | n5 | CA\_n5(2A)\_BCS0 | 0 |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n77C | 778,9CA\_n5A-n77A8CA\_n77C | n5 | 5, 10, 15, 20 | 0 |
|  |  | n77 | CA\_n77C\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n5(2A)-n77C | n778,9CA\_n77CCA\_n5A-n77A8 | n5 | CA\_n5(2A)\_BCS0 | 0 |
|  |  | n77 | CA\_n77C\_BCS0 |  |
|  |  | n5 | CA\_n5(2A)\_BCS0 | 1 |
|  |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n5B-n77A | n778,9CA\_n5A-n77A8CA\_n5B | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5B-n77C | n778,9CA\_n5A-n77A8CA\_n5BCA\_n77C | n5 | CA\_n5B\_BCS0 | 0 |
|  |  | n77 | CA\_n77C\_BCS0 |  |
|  |  | n5 | CA\_n5B\_BCS0 | 1 |
|  |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n5A-n78A | n788,9CA\_n5A-n78A8 | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n5 | See n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n78 | See n78 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n78(2A) | n788,9CA\_n5A-n78A8CA\_n78(2A)8 | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | CA\_n78(2A)\_BCS2 |  |
|  |  | n5 | See n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n78 | CA\_n78(2A)\_BCS4 and 5 |  |
| CA\_n5A-n78C | CA\_n5A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | CA\_n78C\_BCS0 |  |
|  |  | n5 | 5, 10, 15, 20 | 1 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  | CA\_n78CCA\_n5A-n78C | n5 | See n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n78 | CA\_n78C\_BCS4 and 5 |  |
| CA\_n5A-n79A | CA\_n5A-n79A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n5 | See n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n79 | See n79 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n5A-n79C | CA\_n5A-n79A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n5 | See n5 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n79 | CA\_n79C\_BCS4 and 5 |  |
| CA\_n5A-n105A | CA\_n5A-n105A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n105 | 5, 10, 15, 20, 25, 30, 35 |  |

<<Unchanged texts are omitted>>

**<< End of change >>**

**<< Start of change >>**

## 5.5B Configurations for DC

For an NR DC configuration specified in Table 5.5B-1, the bandwidth combination sets for the corresponding NR CA configuration in 5.5A.3, i.e., dual uplink inter-band carrier aggregation with uplink assigned to two NR bands, are applicable to Dual Connectivity.

Table 5.5B-1: Inter-band NR DC configurations (two bands)

| NR DCconfiguration | Uplink NR DCconfiguration |
| --- | --- |
| DC\_n1A-n3A | DC\_n1A-n3A |
| DC\_n1A-n7A | DC\_n1A-n7A |
| DC\_n1A-n20A | DC\_n1A-n20A |
| DC\_n1A-n28A | DC\_n1A-n28A |
| DC\_n1A-n41A | DC\_n1A-n41A |
| DC\_n1A-n46ADC\_n1A-n46CDC\_n1A-n46D | DC\_n1A-n46A |
| DC\_n1A-n46(2A) | DC\_n1A-n46A |
| DC\_n1A-n77A2 | DC\_n1A-n77A |
| DC\_n1A-n78A | DC\_n1A-n78A |
| DC\_n1A-n78(2A) | DC\_n1A-n78A |
| DC\_n1A-n79A2 | DC\_n1A-n79A |
| DC\_n1A-n102ADC\_n1A-n102BDC\_n1A-n102CDC\_n1A-n102DDC\_n1A-n102E | DC\_n1A-n102ADC\_n1A-n102BDC\_n1A-n102C |
| DC\_n1A-n102(2A) | DC\_n1A-n102A |
| DC\_n2A-n5ADC\_n2A-n5B | DC\_n2A-n5A |
| DC\_n2A-n48ADC\_n2A-n48BDC\_n2A-n48C | DC\_n2A-n48A |
| DC\_n2A-n48(2A)DC\_n2A-n48(A-B)DC\_n2A-n48(A-C) | DC\_n2A-n48A |
| DC\_n2A-n66ADC\_n2A-n66B | DC\_n2A-n66A |
| DC\_n2A-n77ADC\_n2A-n77BDC\_n2A-n77C | DC\_n2A-n77A |
| DC\_n2A-n77(2A)DC\_n2A-n77(3A)DC\_n2(2A)-n77ADC\_n2(2A)-n77BDC\_n2(2A)-n77(2A)DC\_n2(2A)-n77C | DC\_n2A-n77A |
| DC\_n3A-n7A | DC\_n3A-n7A |
| DC\_n3A-n20A | DC\_n3A-n20A |
| DC\_n3A-n28A | DC\_n3A-n28A |
| DC\_n3A-n41A | DC\_n3A-n41A |
| DC\_n3A-n77A2 | DC\_n3A-n77A |
| DC\_n3A-n77(2A) 2 | DC\_n3A-n77A |
| DC\_n3A-n78A2 | DC\_n3A-n78A |
| DC\_n3A-n78(2A)2 | DC\_n3A-n78A |
| DC\_n3A-n79A | DC\_n3A-n79A |
| DC\_n3A-n102ADC\_n3A-n102BDC\_n3A-n102CDC\_n3A-n102DDC\_n3A-n102E | DC\_n3A-n102ADC\_n3A-n102BDC\_n3A-n102C |
| DC\_n3A-n102(2A) | DC\_n3A-n102A |
| DC\_n5A-n13A | DC\_n5A-n13A |
| DC\_n5B-n13A | DC\_n5A-n13A |
| DC\_n5A-n48ADC\_n5A-n48BDC\_n5A-n48C | DC\_n5A-n48A |
| DC\_n5A-n48(2A) | DC\_n5A-n48A |
| DC\_n5A-n66ADC\_n5A-n66BDC\_n5B-n66ADC\_n5B-n66B | DC\_n5A-n66A |
| DC\_n5A-n66(2A)DC\_n5A-n66(3A)DC\_n5B-n66(2A) | DC\_n5A-n66A |
| DC\_n5A-n77ADC\_n5A-n77BDC\_n5A-n77CDC\_n5B-n77ADC\_n5B-n77C | DC\_n5A-n77A |
| DC\_n5A-n77(2A)DC\_n5A-n77(3A)DC\_n5(2A)-n77ADC\_n5(2A)-n77C | DC\_n5A-n77A |
| DC\_n7A-n20A | DC\_n7A-n20A |
| DC\_n7A-n28A | DC\_n7A-n28A |
| DC\_n7A-n46ADC\_n7A-n46CDC\_n7A-n46D | DC\_n7A-n46A |
| DC\_n7A-n46(2A) | DC\_n7A-n46A |
| DC\_n7A-n78A | DC\_n7A-n78A |
| DC\_n7A-n78(2A) | DC\_n7A-n78A |
| DC\_n7A-n102ADC\_n7A-n102BDC\_n7A-n102CDC\_n7A-n102DDC\_n7A-n102E | DC\_n7A-n102ADC\_n7A-n102BDC\_n7A-n102C |
| DC\_n7A-n102(2A) | DC\_n7A-n102A |
| DC\_n8A-n78A2 | DC\_n8A-n78A |
| DC\_n12A-n77A | DC\_n12A-n77A |
| DC\_n12A-n77(2A) | DC\_n12A-n77A |
| DC\_n13A-n66ADC\_n13A-n66B | DC\_n13A-n66A |
| DC\_n13A-n66(2A) | DC\_n13A-n66A |
| DC\_n13A-n77ADC\_n13A-n77C | DC\_n13A-n77A |
| DC\_n20A-n78A | DC\_n20A-n78A |
| DC\_n20A-n78(2A) | DC\_n20A-n78A |
| DC\_n25A-n41A | DC\_n25A-n41A |
| DC\_n25A-n66A | DC\_n25A-n66A |
| DC\_n25A-n71A | DC\_n25A-n71A |
| DC\_n25A-n77A | DC\_n25A-n77A |
| DC\_n25A-n77(2A) | DC\_n25A-n77A |
| DC\_n28A-n41A | DC\_n28A-n41A |
| DC\_n28A-n46ADC\_n28A-n46CDC\_n28A-n46D | DC\_n28A-n46A |
| DC\_n28A-n46(2A) | DC\_n28A-n46A |
| DC\_n28A-n77A2 | DC\_n28A-n77A |
| DC\_n28A-n77(2A) | DC\_n28A-n77A |
| DC\_n28A-n78A2 | DC\_n28A-n78A |
| DC\_n28A-n78(2A)2 | DC\_n28A-n78A |
| DC\_n28A-n79A | DC\_n28A-n79A |
| DC\_n28A-n102ADC\_n28A-n102B DC\_n28A-n102CDC\_n28A-n102DDC\_n28A-n102E | DC\_n28A-n102ADC\_n28A-n102B DC\_n28A-n102C |
| DC\_n28A-n102(2A) | DC\_n28A-n102A |
| DC\_n41A-n66A | DC\_n41A-n66A |
| DC\_n41A-n71A | DC\_n41A-n71A |
| DC\_n41A-n77A | DC\_n41A-n77A |
| DC\_n41A-n78A | DC\_n41A-n78A |
| DC\_n41A-n79A2, 3 | DC\_n41A-n79A |
| DC\_n46A-n48ADC\_n46A-n48BDC\_n46A-n48CDC\_n46B-n48ADC\_n46B-n48BDC\_n46B-n48CDC\_n46C-n48ADC\_n46C-n48BDC\_n46C-n48CDC\_n46D-n48ADC\_n46D-n48BDC\_n46D-n48CDC\_n46N-n48ADC\_n46N-n48BDC\_n46N-n48C | DC\_n46A-n48ADC\_n46A-n48B |
| DC\_n46A-n77ADC\_n46C-n77ADC\_n46D-n77A | DC\_n46A-n77A |
| DC\_n46A-n77(2A)DC\_n46C-n77(2A)DC\_n46D-n77(2A)DC\_n46(2A)-n77ADC\_n46(2A)-n77(2A) | DC\_n46A-n77A |
| DC\_n46A-n78ADC\_n46C-n78ADC\_n46D-n78A | DC\_n46A-n78A |
| DC\_n46A-n78(2A)DC\_n46C-n78(2A)DC\_n46D-n78(2A)DC\_n46(2A)-n78ADC\_n46(2A)-n78(2A) | DC\_n46A-n78A |
| DC\_n48A-n66ADC\_n48B-n66ADC\_n48B-n66BDC\_n48C-n66ADC\_n48C-n66B | DC\_n48A-n66A |
| DC\_n48A-n66(2A)DC\_n48B-n66(2A)DC\_n48(2A)-n66ADC\_n48(2A)-n66(2A)DC\_n48(A-C)-n66A | DC\_n48A-n66A |
| DC\_n48A-n70ADC\_n48B-n70A | DC\_n48A-n70A |
| DC\_n48(2A)-n70A | DC\_n48A-n70A |
| DC\_n48A-n71A DC\_n48B-n71ADC\_n48C-n71A | DC\_n48A-n71A |
| DC\_n48A-n71(2A)DC\_n48(2A)-n71ADC\_n48(2A)-n71(2A)DC\_n48(3A)-n71ADC\_n48(4A)-n71ADC\_n48B-n71(2A) | DC\_n48A-n71A |
| DC\_n48A-n96ADC\_n48B-n96ADC\_n48C-n96ADC\_n48A-n96BDC\_n48B-n96BDC\_n48C-n96BDC\_n48A-n96CDC\_n48B-n96CDC\_n48C-n96CDC\_n48A-n96DDC\_n48B-n96DDC\_n48C-n96DDC\_n48A-n96EDC\_n48B-n96EDC\_n48C-n96E | DC\_n48A-n96ADC\_n48B-n96A |
| DC\_n66A-n71A | DC\_n66A-n71A |
| DC\_n66A-n77ADC\_n66A-n77BDC\_n66A-n77CDC\_n66B-n77ADC\_n66B-n77C | DC\_n66A-n77A |
| DC\_n66A-n77(2A)DC\_n66A-n77(3A)DC\_n66(2A)-n77(2A)DC\_n66(2A)-n77(3A)DC\_n66(3A)-n77(2A)DC\_n66(2A)-n77ADC\_n66(2A)-n77BDC\_n66(2A)-n77CDC\_n66(3A)-n77ADC\_n66(3A)-n77C | DC\_n66A-n77A |
| DC\_n71A-n77A | DC\_n71A-n77A |
| DC\_n71A-n77(2A) | DC\_n71A-n77A |
| DC\_n77A-n79A1 | DC\_n77A-n79A |
| DC\_n77(2A)-n79A1 | DC\_n77A-n79A |
| DC\_n78A-n79ADC\_n78(2A)-n79A | DC\_n78A-n79A |
| DC\_n77A-n102ADC\_n77A-n102BDC\_n77A-n102CDC\_n77A-n102DDC\_n77A-n102E | DC\_n77A-n102ADC\_n77A-n102BDC\_n77A-n102C |
| DC\_n77A-n102(2A)DC\_n77(2A)-n102ADC\_n77(2A)-n102BDC\_n77(2A)-n102CDC\_n77(2A)-n102DDC\_n77(2A)-n102EDC\_n77(2A)-n102(2A) | DC\_n77A-n102ADC\_n77A-n102BDC\_n77A-n102C |
| DC\_n78A-n102ADC\_n78A-n102BDC\_n78A-n102CDC\_n78A-n102DDC\_n78A-n102E | DC\_n78A-n102ADC\_n78A-n102BDC\_n78A-n102C |
| DC\_n78A-n102(2A)DC\_n78(2A)-n102ADC\_n78(2A)-n102BDC\_n78(2A)-n102CDC\_n78(2A)-n102DDC\_n78(2A)-n102EDC\_n78(2A)-n102(2A) | DC\_n78A-n102ADC\_n78A-n102BDC\_n78A-n102C |
| NOTE 1: The minimum requirements apply only when there is non-simultaneous Rx/Tx operation between n77-n79 NR carriers. This restriction applies also for these carriers when applicable NR DC configuration is part of a higher order configuration.NOTE 2: Applicable for UE supporting inter-band NR DC with mandatory simultaneous Rx/Tx capability.NOTE 3: The frequency range below 2506 MHz for Band n41 is not used in this combination. |

**<< End of change >>**

**<< Start of change >>**

### 6.2B.1 UE maximum output power for NR-DC

For inter-band NR-DC with one uplink carrier assigned per NR band, the transmitter power requirements in clause 6.2 apply per band.

For inter-band NR-DC with one uplink assigned per band, the UE maximum output power shall be measured over all component carriers from different bands. If each band has separate antenna connectors, the maximum output power is defined as the sum of maximum output power from each UE antenna connector. The period of measurement shall be at least one sub frame (1 ms). The maximum output power is specified in Table 6.2B.1.3-1.

**Table 6.2B.1.3-1 UE Power Class for inter-band NR-DC**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Uplink CA Configuration | Class 1 (dBm)  | Tolerance (dB)  | Class 2 (dBm) | Tolerance(dB)  | Class 3 (dBm) | Tolerance (dB)  | Class 4 (dBm) | Tolerance (dB) |
| DC\_n1A-n3A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n7A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n20A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n28A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n41A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n46A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n79A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n102A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n102B |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n1A-n102C |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n2A-n5A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n2A-n48A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n2A-n66A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n2A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n7A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n20A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n28A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n41A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n79A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n3A-n102A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n5A-n13A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n5A-n48A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n5A-n66A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n5A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n20A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n28A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n46A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n102A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n102B |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n7A-n102C |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n8A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n12A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n20A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n41A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n46A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n79A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n102A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n102B |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n28A-n102C |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n41A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n41A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n41A-n79A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n46A-n48A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n46A-n48B |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n46A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n46A-n78A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n48A-n66A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n48A-n70A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n48A-n71A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n48A-n96A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n48B-n96A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n66A-n77A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n77A-n79A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n77A-n102A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n77A-n102B |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n77A-n102C |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n78A-n79A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n78A-n102A |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n78A-n102B |  |  |  |  | 23 | +2/-3 |  |  |
| DC\_n78A-n102C |  |  |  |  | 23 | +2/-3 |  |  |
| NOTE 1: An uplink DC configuration in which at least one of the bands has NOTE 3 in Table 6.2.1-1 is allowed to reduce the lower tolerance limit by 1.5 dB when the transmission bandwidths of at least one of the bands is confined within FUL\_low and FUL\_low + 4 MHz or FUL\_high - 4 MHz and FUL\_high.NOTE 2: PPowerClass is the maximum UE power specified without account of the toleranceNOTE 3: The maximum power requirement applies to the total transmitted power over both the MCG and SCG.NOTE 4: Power class 3 is the default power class unless otherwise stated. |

**<< End of change >>**