**3GPP TSG-RAN WG4 Meeting # 114 *R4-250xxxx***

**Athens, Greece, 17th – 21st February, 2025**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.101-1** | **CR** | **DraftCR** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  |
| *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 38.101-1 to introduce BCS4&5 for CA\_n1A\_n78A-n80A & CA\_n1A\_n78C-n80A and CA\_n1A\_n78A-n84A & CA\_n1A\_n78C-n84A |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon, China Telecom, China Unicom |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_CADC\_SUL\_R19-Core |  | ***Date:*** | 2025-01-24 |
|  |  |  |  |  |
| ***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)* |
|  |  |
| ***Reason for change:*** | To introduce BCS4&5 for CA\_n1A\_n78A-n80A & CA\_n1A\_n78C-n80A and CA\_n1A\_n78A-n84A & CA\_n1A\_n78C-n84A. |
|  |  |
| ***Summary of change:*** | To introduce BCS4&5 for CA\_n1A\_n78A-n80A & CA\_n1A\_n78C-n80A and CA\_n1A\_n78A-n84A & CA\_n1A\_n78C-n84A. |
|  |  |
| ***Consequences if not approved:*** | Spec can’t support BCS4&5 for CA\_n1A\_n78A-n80A & CA\_n1A\_n78C-n80A and CA\_n1A\_n78A-n84A & CA\_n1A\_n78C-n84A. |
|  |  |
| ***Clauses affected:*** | 5.5A.3.1 |
|  |  |
|  | **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 for TS 38.101-1>>**

## 5.5C Configurations for SUL

The configuration tables for SUL describe Bandwidth Combination Sets. Bandwidth Combination Set 4 and 5 contains all possible defined channel bandwidths for each band in the combination. The fact that BCS4 and BCS5 contains all channel bandwidths for each band does not alter if a bandwidth is mandatory or optional for a given band. Bandwidths that are identified as optional in Table 5.3.5-1 for a given release are still optional for UEs that support BCS4 or BCS5. , where the bandwidths the UE supports for each band, the maximum bandwidth and/or minimum bandwidth for the band in the band combination are indicated in the UE capabilities. The minimum bandwidth per CC and aggregated FDD, TDD and total bandwidth per band combination may be indicated only for BCS5 as described in 38.306 [15] and BCS5 shall not be indicated together with BCS4 for a SUL configuration. For SUL band combinations including FR1 intra-band CA and with BCS4 or BCS5, the Bandwidth Combination Sets for the FR1 intra-band CA are BCS4 or BCS5.

For the NR SUL band configurations with inter-band CA in sub-clause 5.5C, when the capability *supportedBandPairListNR-r18* is present, three or four bands can be configured in the uplink with simultaneous uplink transmission on up to two bands, and the corresponding requirements for SUL band configurations with inter-band CA and with uplink assigned to one or two bands shall apply. For each uplink band pair in the NR SUL band configurations with inter-band CA, according to the capability *uplinkTxSwitchingOptionForBandPair*,

– if *switchedUL* is supported, uplink transmission on any one band of the band pair in the band combination shall be supported according to the scheduling commands, and the corresponding requirements for SUL band configuration with inter-band CA and with uplink assigned to one band on band X or band Y apply;

– if *dualUL* is supported, simultaneous uplink transmission on the two NR UL bands from the band pair for which *dualUL* is declared in the band combination shall be supported according to the scheduling commands, and the corresponding requirements for SUL band configuration with inter-band CA and with uplink CA between the two uplink bands apply.

For SUL band configuration with inter-band CA, band pair(s) of two non-SUL bands with *switchedUL* or *dualUL* by the parameter *uplinkTxSwitchingOption* is supported, and any other band pair(s) including SUL with *switchedUL* is supported, in release 18.

Table 5.5C-1: Supported channel bandwidths per SUL band combination

| SUL configuration | NR Band | Channel bandwidth (MHz) (NOTE 1) | Bandwidth combination set |
| --- | --- | --- | --- |
| SUL\_n1A-n80A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | n80 | 5, 10, 15, 20, 25, 30 |  |
|  | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  | n80 | See n80 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| SUL\_n1A-n81A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | n81 | 5, 10, 15, 20 |  |
| SUL\_n1A-n89A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | n89 | 5, 10, 15, 20 |  |
| SUL\_n3A-n84A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | n84 | 5, 10, 15, 20 |  |
|  | n3 | See n3 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  | n84 | See n84 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| SUL\_n5A-n84A | n5 | 5, 10, 15, 20 | 0 |
|  | n84 | 5, 10, 15, 20 |  |
| SUL\_n8A-n84A | n8 | 5, 10, 15, 20 | 0 |
|  | n84 | 5, 10, 15, 20 |  |
| SUL\_n24A-n99A | n24 | 5, 10 | 0 |
|  | n99 | 5, 10 |  |
| SUL\_n41A-n80A | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n80 | 5, 10, 15, 20, 25, 30 |  |
|  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 1 |
|  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| SUL\_n41A-n81A | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n81 | 5, 10, 15, 20 |  |
| SUL\_n41A-n83A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | n83 | 5, 10, 15, 20, 30 |  |
| SUL\_n41A-n95A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | n95 | 5, 10, 15 |  |
| SUL\_n41A-n97A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | n97 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | n97 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| SUL\_n41A-n98A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| SUL\_n41A-n99A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | n99 | 5, 10 |  |
| SUL\_n48A-n99A | n48 | 5, 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n99 | 5, 10 |  |
| SUL\_n77A-n80A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n80 | 5, 10, 15, 20, 25, 30 |  |
| SUL\_n77A-n84A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n84 | 5, 10, 15, 20 |  |
| SUL\_n77A-n99A | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n99 | 5, 10 |  |
| SUL\_n78A-n80A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n80 | 5, 10, 15, 20, 25, 30 |  |
|  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | n78 | See n78 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  | n80 | See n80 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| SUL\_n78A-n81A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n81 | 5, 10, 15, 20 |  |
|  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | n81 | 5, 10, 15, 20 |  |
| SUL\_n78A-n82A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n82 | 5, 10, 15, 20 |  |
| SUL\_n78A-n83A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n83 | 5, 10, 15, 20 |  |
|  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | n83 | 5, 10, 15, 20, 30 |  |
| SUL\_n78A-n84A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 | 0 |
|  | n84 | 5, 10, 15, 20 |  |
|  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | n84 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | n78 | See n78 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  | n84 | See n84 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| SUL\_n78A-n86A | n78 | 10, 15, 20, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | n86 | 5, 10, 15, 20 |  |
| SUL\_n78A-n89A | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | n89 | 5, 10, 15, 20 |  |
| SUL\_n79A-n80A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n80 | 5, 10, 15, 20, 25, 30 |  |
|  | n79 | 40, 50, 60, 80, 100 | 1 |
|  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| SUL\_n79A-n81A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n81 | 5, 10, 15, 20 |  |
| SUL\_n79A-n83A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n83 | 5, 10, 15, 20, 30 |  |
|  | n79 | See n79 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  | n83 | See n83 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| SUL\_n79A-n84A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n84 | 5, 10, 15, 20 |  |
| SUL\_n79A-n95A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n95 | 5, 10, 15 |  |
| SUL\_n79A-n97A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n97 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | n79 | 40, 50, 60, 80, 100 | 1 |
|  | n97 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | n79 | See n79 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  | n97 | See n97 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| SUL\_n79A-n98A | n79 | 40, 50, 60, 80, 100 | 0 |
|  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| NOTE 1: The SCS of each channel bandwidth for NR band refers to Table 5.3.5-1. |

Table 5.5C-2: Supported channel bandwidths per SUL band combination with intra-band non-contiguous CA

| SUL band combination with intra-band non-contiguous CA | SUL configuration | NR Band | Channel bandwidth (MHz) (NOTE 1) | Bandwidth combination set |
| --- | --- | --- | --- | --- |
| CA\_n41(2A)-n99A | SUL\_n41A-n99A | n41 | CA\_n41(2A)\_BCS0 | 0 |
|  |  | n99 | 5, 10 |  |
| CA\_n48(2A)-n99A | SUL\_n48A-n99A | n48 | CA\_n48(2A)\_BCS0 | 0 |
|  |  | n99 | 5, 10 |  |
| CA\_n77(2A)-n99A | SUL\_n77A-n99A | n77 | CA\_n77(2A)\_BCS0 | 0 |
|  |  | n99 | 5, 10 |  |
| CA\_n78(2A)-n86A | SUL\_n78A-n86A | n78 | CA\_n78(2A)\_BCS0 | 0 |
|  |  | n86 | 5, 10, 15, 20 |  |
| NOTE 1: The SCS of each channel bandwidth for NR band refers to Table 5.3.5-1. |

Table 5.5C-3: Supported channel bandwidths per SUL band combination
with intra-band contiguous CA

| SUL band combination with CA | SUL configuration | NR Band | Channel bandwidth (MHz) (NOTE 1) | Bandwidth combination set |
| --- | --- | --- | --- | --- |
| CA\_n41C-n80A | SUL\_n41A-n80ACA\_n41C-n80A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n41C-n81A | SUL\_n41A-n81ACA\_n41C-n81A | n41 | CA\_n41C\_BCS4 and 5 | 4 and 5 |
|  |  | n81 | See n81 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n41C-n83A | SUL\_n41A-n83ACA\_n41C-n83A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n41C-n95A | SUL\_n41A-n95ACA\_n41C-n95A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n41C-n97A | SUL\_n41A-n97ACA\_n41C-n97A | n41 | CA\_n41C\_BCS4 and 5 | 4 and 5 |
|  |  | n97 | See n97 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n41C-n98A | SUL\_n41A-n98ACA\_n41C-n98A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n78C-n80A | SUL\_n78A-n80ACA\_n78C-n80A | n78 | CA\_n78C\_BCS1 | 0 |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n78 | CA\_n78C\_BCS4 and 5 | 4 and 5 |
|  |  | n80 | See n80 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n78C-n81A | SUL\_n78A-n81ACA\_n78C-n81A | n78 | CA\_n78C\_BCS1 | 0 |
|  |  | n81 | 5, 10, 15, 20 |  |
| CA\_n78C-n84A | SUL\_n78A-n84ACA\_n78C-n84A | n78 | CA\_n78C\_BCS1 | 0 |
|  |  | n84 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n78 | CA\_n78C\_BCS4 and 5 | 4 and 5 |
|  |  | n84 | See n84 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n78C-n89A | SUL\_n78A-n89ACA\_n78C-n89A | n78 | CA\_n78C\_BCS1 | 0 |
|  |  | n89 | 5, 10, 15, 20 |  |
| CA\_n79C-n80A | SUL\_n79A-n80ACA\_n79C-n80A | n79 | CA\_n79C\_BCS0 | 0 |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n79C-n83A | SUL\_n79A-n83ACA\_n79C-n83A | n79 | CA\_n79C\_BCS0 | 0 |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n79C-n95A | SUL\_n79A-n95ACA\_n79C-n95A | n79 | CA\_n79C\_BCS0 | 0 |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n79C-n97A | SUL\_n79A-n97ACA\_n79C-n97A | n79 | CA\_n79C\_BCS4 and 5 | 4 and 5 |
|  |  | n97 | See n97 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n79C-n98A | SUL\_n79A-n98ACA\_n79C-n98A | n79 | CA\_n79C\_BCS0 | 0 |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| NOTE 1: The SCS of each channel bandwidth for NR band refers to Table 5.3.5-1. |

Table 5.5C-4: Supported channel bandwidths per SUL band combination with inter-band CA

| SUL band combination with CA | UL configuration | NR Band | Channel bandwidth (MHz) (NOTE 1) | Bandwidth combination set |
| --- | --- | --- | --- | --- |
| CA\_n1A\_n78A-n80A | SUL\_n78A-n80A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  |  | n78 | See n78 channel bandwidths in Table 5.3.5-1 for each carrier |  |
|  |  | n80 | See n80 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n1A\_n78C-n80A | SUL\_n78A-n80ACA\_n78CCA\_n1A-n78ACA\_n78C-n80A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
|  |  | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  |  | n78 | CA\_n78C\_BCS4 and 5 |  |
|  |  | n80 | See n80 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n1A\_n78A-n81A | SUL\_n78A-n81A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n81 | 5, 10, 15, 20 |  |
| CA\_n1A\_n78C-n81A | SUL\_n78A-n81ACA\_n78C-n81ACA\_n78CCA\_n1A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n81 | 5, 10, 15, 20 |  |
| CA\_n1A\_n78A-n84A | SUL\_n78A-n84A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  |  | n78 | See n78 channel bandwidths in Table 5.3.5-1 for each carrier |  |
|  |  | n84 | See n84 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n1A\_n78C-n84A | SUL\_n78A-n84ACA\_n78C-n84A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n84 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  |  | n78 | CA\_n78C\_BCS4 and 5 |  |
|  |  | n84 | See n84 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n1A\_n78A-n89A | SUL\_n78A-n89ACA\_n1A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n89 | 5, 10, 15, 20 |  |
| CA\_n1A\_n78C-n89A | SUL\_n78A-n89ACA\_n78CCA\_n1A-n78ACA\_n78C-n89A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | See CA\_n78C Bandwidth Combination Set 1 in Table 5.5A.1-1 |  |
|  |  | n89 | 5, 10, 15, 20 |  |
| CA\_n3A\_n41A-n80A | SUL\_n41A-n80A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A\_n41C-n80A | SUL\_n41A-n80ACA\_n41C-n80A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n41 | CA\_n41C\_BCS1 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A\_n78A-n80A | SUL\_n78A-n80A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A\_n78C-n80A | SUL\_n78A-n80ACA\_n78C-n80A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A\_n78A-n84A | SUL\_n78A-n84ACA\_n3A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n3A\_n78C-n84A | SUL\_n78A-n84ACA\_n3A-n78ACA\_n78CCA\_n78C-n84A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n78 | See CA\_n78C Bandwidth Combination Set 1 in Table 5.5A.1-1 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n3A\_n79A-n80A | SUL\_n79A-n80A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A\_n79C-n80A | SUL\_n79A-n80ACA\_n79C-n80A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A\_n78A-n84A | SUL\_n78A-n84ACA\_n5A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n5A\_n78C-n84A | SUL\_n78A-n84ACA\_n5A-n78ACA\_n78CCA\_n78C-n84A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | See CA\_n78C Bandwidth Combination Set 1 in Table 5.5A.1-1 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n8A\_n78A-n81A | SUL\_n78A-n81A | n8 | 5, 10, 15, 20 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n81 | 5, 10, 15, 20 |  |
| CA\_n8A\_n78A-n84A | SUL\_n78A-n84ACA\_n8A-n78A | n8 | 5, 10, 15, 20 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n8A\_n78C-n84A | SUL\_n78A-n84ACA\_n78CCA\_n8A-n78ACA\_n78C-n84A | n8 | 5, 10, 15, 20 | 0 |
|  |  | n78 | See CA\_n78C Bandwidth Combination Set 1 in Table 5.5A.1-1 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n28A\_n41A-n83A | SUL\_n41A-n83A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n28A\_n41C-n83A | SUL\_n41A-n83ACA\_n41C-n83A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n41 | CA\_n41C\_BCS1 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n28A\_n79A-n83A | SUL\_n79A-n83A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n28A\_n79C-n83A | SUL\_n79A-n83ACA\_n79C-n83A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n41A\_n79A-n80A | SUL\_n79A-n80A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n41A\_n79A-n83A | SUL\_n79A-n83A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n41A\_n79C-n83A | SUL\_n79A-n83ACA\_n79C-n83ACA\_n41A-n79ACA\_n79C | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n41C\_n79A-n83A | SUL\_n79A-n83ACA\_n41CCA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n41C\_n79C-n83A | CA\_n41CCA\_n79CSUL\_n79A-n83ACA\_n79C-n83ACA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n41A\_n79A-n95A | SUL\_n79A-n95A | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n41A\_n79C-n95A | SUL\_n79A-n95ACA\_n79C-n95ACA\_n41A-n79ACA\_n79C | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n41C\_n79A-n95A | SUL\_n79A-n95ACA\_n41CCA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n41C\_n79C-n95A | CA\_n41CCA\_n79CSUL\_n79A-n95ACA\_n79C-n95ACA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n98 | 5, 10, 15 |  |
| CA\_n41A\_n79A-n97A | SUL\_n79A-n97A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n97 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n41A\_n79A-n98A | SUL\_n79A-n98A | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n41A\_n79C-n98A | SUL\_n79A-n98ACA\_n79C-n98ACA\_n41A-n79ACA\_n79C | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n41C\_n79A-n98A | SUL\_n79A-n98ACA\_n41CCA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n41C\_n79C-n98A | CA\_n41CCA\_n79CSUL\_n79A-n98ACA\_n79C-n98ACA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n78A\_n1A-n80A | SUL\_n1A-n80A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30 |  |
| CA\_n78C\_n1A-n80A | SUL\_n1A-n80ACA\_n78CCA\_n1A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30 |  |
| CA\_n78A\_n1A-n81A | SUL\_n1A-n81A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n81 | 5, 10, 15, 20 |  |
| CA\_n78C\_n1A-n81A | SUL\_n1A-n81ACA\_n78CCA\_n1-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n81 | 5, 10, 15, 20 |  |
| CA\_n78A\_n1A-n89A | SUL\_n1A-n89A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n89 | 5, 10, 15, 20 |  |
| CA\_n78C\_n1A-n89A | SUL\_n1A-n89ACA\_n78CCA\_n1A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n89 | 5, 10, 15, 20 |  |
| CA\_n78A\_n3A-n84A | SUL\_n3A-n84A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n78C\_n3A-n84A | SUL\_n3A-n84ACA\_n78CCA\_n3A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  |  | n78 | CA\_n78C\_BCS1 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n78A\_n5A-n84A | SUL\_n5A-n84ACA\_n5A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n78C\_n5A-n84A | SUL\_n5A-n84ACA\_n78CCA\_n5A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  |  | n78 | See CA\_n78C Bandwidth Combination Set 1 in Table 5.5A.1-1 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n78A\_n8A-n84A | SUL\_n8A-n84ACA\_n8A-n78A | n8 | 5, 10, 15, 20 | 0 |
|  |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n78C\_n8A-n84A | SUL\_n8A-n84ACA\_n78CCA\_n8A-n78A | n8 | 5, 10, 15, 20 | 0 |
|  |  | n78 | See CA\_n78C Bandwidth Combination Set 1 in Table 5.5A.1-1 |  |
|  |  | n84 | 5, 10, 15, 20 |  |
| CA\_n79A\_n41A-n80A | SUL\_n41A-n80A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n80 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n79A\_n41A-n83A | SUL\_n41A-n83A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n79A\_n41C-n83A | SUL\_n41A-n83ACA\_n41C-n83ACA\_n41A-n79ACA\_n41C | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n79C\_n41A-n83A | SUL\_n41A-n83ACA\_n41A-n79ACA\_n79C | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n79C\_n41C-n83A | CA\_n41CCA\_n79CSUL\_n41A-n83ACA\_n41C-n83ACA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n79A\_n41A-n95A | SUL\_n41A-n95A | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n79C\_n41A-n95A | SUL\_n41A-n95ACA\_n41A-n79ACA\_n79C | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n79A\_n41C-n95A | SUL\_n41A-n95ACA\_n41C-n95ACA\_n41A-n79ACA\_n41C | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n79C\_n41C-n95A | CA\_n41CCA\_n79CSUL\_n41A-n95ACA\_n41C-n95ACA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n95 | 5, 10, 15 |  |
| CA\_n79A\_n41A-n97A | SUL\_n41A-n97A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n97 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n79A\_n41A-n98A | SUL\_n41A-n98A | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n79C\_n41A-n98A | SUL\_n41A-n98ACA\_n41A-n79ACA\_n79C | n41 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n79A\_n41C-n98A | SUL\_n41A-n98ACA\_n41C-n98ACA\_n41A-n79ACA\_n41C | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n79C\_n41C-n98A | CA\_n41CCA\_n79CSUL\_n41A-n98ACA\_n41C-n98ACA\_n41A-n79A | n41 | CA\_n41C\_BCS1 | 0 |
|  |  | n79 | CA\_n79C\_BCS0 |  |
|  |  | n98 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n3A\_n78A-n80A | SUL\_n78A-n80A | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  |  | n3 | See n3 channel bandwidths in Table 5.3.5-1 for each carrier |  |
|  |  | n78 | See n78 channel bandwidths in Table 5.3.5-1 for each carrier |  |
|  |  | n80 | See n80 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n1A-n3A\_n78A-n84A | SUL\_n78A-n84A | n1 | See n1 channel bandwidths in Table 5.3.5-1 for each carrier | 4 and 5 |
|  |  | n3 | See n3 channel bandwidths in Table 5.3.5-1 for each carrier |  |
|  |  | n78 | See n78 channel bandwidths in Table 5.3.5-1 for each carrier |  |
|  |  | n84 | See n84 channel bandwidths in Table 5.3.5-1 for each carrier |  |
| CA\_n28A-n79A\_n41A-n83A | SUL\_n41A-n83A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| CA\_n28A-n41A\_n79A-n83A | SUL\_n79A-n83A | n28 | 5, 10, 15, 20, 30 | 0 |
|  |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  |  | n79 | 40, 50, 60, 80, 100 |  |
|  |  | n83 | 5, 10, 15, 20, 30 |  |
| NOTE 1: The SCS of each channel bandwidth for NR band refers to Table 5.3.5-1. |

Table 5.5C-5: Supported channel bandwidths per SUL band combination
with inter-band CA (two SUL cells)

| SUL band combination with CA | Uplink CAconfiguration or SUL configuration | NR Band | Channel bandwidth (MHz) (NOTE 1) | Bandwidth combination set |
| --- | --- | --- | --- | --- |
| CA\_n41A-n95A\_n79A-n98A | SUL\_n41A-n95ASUL\_n79A-n98ACA\_n41A-n79A | n41 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 | 0 |
| n79 | 10, 20, 30,40, 50, 60, 70, 80, 90, 100 |
| n95 | 5, 10, 15 |
| n98 | 5, 10, 15, 20, 25, 30, 40 |
| CA\_n41A-n98A\_n79A-n95A | SUL\_n41A-n98ASUL\_n79A-n95ACA\_n41A-n79A | n41 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 | 0 |
| n79 | 10, 20, 30,40, 50, 60, 70, 80, 90, 100 |
| n95 | 5, 10, 15 |
| n98 | 5, 10, 15, 20, 25, 30, 40 |
| CA\_n41A-n83A\_n79A-n98A | SUL\_n41A-n83ASUL\_n79A-n98ACA\_n41A-n79A | n41 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 | 0 |
| n79 | 10, 20, 30,40, 50, 60, 70, 80, 90, 100 |
| n83 | 5, 10, 15, 20,30 |
| n98 | 5, 10, 15, 20, 25, 30, 40 |
| CA\_n41A-n83A\_n79A-n95A | SUL\_n41A-n83ASUL\_n79A-n95ACA\_n41A-n79A | n41 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 | 0 |
| n79 | 10, 20, 30,40, 50, 60, 70, 80, 90, 100 |
| n83 | 5, 10, 15, 20,30 |
| n95 | 5, 10, 15 |
| CA\_n78C\_n80A-n84A | SUL\_n78A-n80ASUL\_n78A-n84ACA\_n78C3 | n78 | CA\_n78C\_BCS1 | 0 |
| n80 | 5, 10, 15, 20, 25, 30, 40 |
| n84 | 5, 10, 15, 20, 25, 30, 40, 50 |
| CA\_n78C\_n81A-n84A | SUL\_n78A-n81ASUL\_n78A-n84ACA\_n78C3 | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100CA\_n78C\_BCS1 | 0 |
| n81 | 5, 10, 15, 20 |  |
| n84 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n78C\_n84A-n89A | SUL\_n78A-n84ASUL\_n78A-n89ACA\_n78C | n78 | CA\_n78C\_BCS1 | 0 |
|  |  | n84 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  |  | n89 | 5, 10, 15, 20 |  |
| NOTE 1: The SCS of each channel bandwidth for NR band refers to Table 5.3.5-1.NOTE 2: Void.NOTE 3: Minimum requirements for Power Class 2 are applicable for this uplink combination with up to 2Tx antenna connectors in this downlink/uplink combination. |

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