**3GPP T****SG-RAN WG4 Meeting#100 R4-2115142**

**E-meeting, 16th – 27th Aug, 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.307** | **CR** | **<CR#>** | **rev** | **-** | **Current version:** | **15.7.0** |  |
|  | | | | | | | | |
| *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:*** | CR Release independence aspect of 6-band LTE CA R15 CATA | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LTE\_CA\_R17\_xBDL\_1BUL-Core | | | | |  | ***Date:*** | | | 2021-09-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | A |  | | | | | ***Release:*** | | | Rel-15 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There are already 6-band LTE CA combinations in 36.101 but release independence aspect is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Release independence information is added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Release independence information is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **x** |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of changes \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table 3A.2-2: Inter-band CA configurations

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | DL/UL | number of bands | number of CCs | CA BW Classes | Duplex-mode | Release  independent from | requirements to be fulfilled  (see 36.307 of the REL in which the CA configuration was introduced) |
| Inter-band CA configurations | DL | 2 | 2-4 | A, B, C | FDD, TDD | Rel-10 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 2-5 | D, E | FDD, TDD | Rel-11 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 2-5 | A, B, C, D, E | FDD and TDD | Rel-12 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | A, C, D, E, F | FDD, TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | FDD and TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 3 | 3 | A | FDD, TDD | Rel-10 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 3-5 | B, C, D | FDD, TDD | Rel-11 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 3 | A | FDD and TDD | Rel-12 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | A, C, D, E, F | FDD, TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | FDD and TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 4 | 4-5 | A, C | FDD, TDD | Rel-11 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 4-5 | FDD and TDD | Rel-12 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | A, C, D, E | FDD, TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | FDD and TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 5 | 5 | A | FDD, TDD | Rel-12 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 5 | FDD and TDD | Rel-12 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | A, C, D | FDD, TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6-7 | FDD and TDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 6 | 6 | A | FDD | Rel-14 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| UL | 2 | 2-4 | A, C | FDD, TDD | Rel-11 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| 2-3 | A, C | FDD and TDD | Rel-12 | Table B.2.4-1, Table B.3.2-1, Table B.4.3-1 or Table B.4.4-1 |
| NOTE1: The duplex mode "FDD, TDD" refers to a CA configuration composed by only FDD bands or only TDD bands, respectively. The duplex mode "FDD and TDD" refers to a CA configuration including both FDD and TDD bands.  NOTE2: CA configurations involving downlink only operation in Band 46 are release independent from Rel-13 onwards (LAA was introduced in Rel-13). The 10 MHz channel bandwidth for Band 46 was introduced in TS 36.101 Rel-14 [2] and can be implemented in a release independent way from Rel-13. | | | | | | | |

For example, CA configuration CA\_1A-19A was introduced in the Release 11 specifications. In order to implement a UE conforming to Release 10 but supporting the CA configuration CA\_1A-19A, it is necessary for the UE to additionally conform to some parts of the Release 11 specifications (see corresponding Annexes of TS 36.307 Rel-11 which will point to the requirements in the Rel-11 of TS 36.101 [2] or TS 36.133 [3] to be fulfilled), such as the radio frequency and radio resource management requirements for the CA configuration CA\_1A-19A.

Table 3A.2-3: Intra-band non-contiguous CA configurations

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | DL/UL | number of sub-blocks | number of CCs | CA BW Classes | Duplex-mode | Release  independent from | requirements to be fulfilled  (see 36.307 of the REL in which the CA configuration was introduced) |
| Intra-band non-contiguous CA configurations | DL | 2 | 2-5 | A, C, D | FDD, TDD | Rel-11 | Table B.2.3-1, Table B.3.2-1, Table B.4.5-1 |
| 3 | 3-5 | A, C | FDD, TDD | Rel-11 | Table B.2.3-1, Table B.3.2-1, Table B.4.5-1 |
| UL | 2 | 2 | A | FDD | Rel-11 | Table B.2.3-1, Table B.3.2-1, Table B.4.5-1 |
| NOTE1: The duplex mode "FDD, TDD" refers to a CA configuration composed by only FDD bands or only TDD bands, respectively. | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*