**3GPP TSG-RAN Meeting #91e *RP-21xxxx***

**2021-03-16 to 2021-03-26 Revision of** [**RP-210742**](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_91e/Docs//RP-210742.zip)

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-3** | **CR** | **0509** | **rev** | **1** | **Current version:** | **16.6.0** |  |
|  | | | | | | | | |
| *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 | **X** | Core Network |  |

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| ***Title:*** | Correcting FR1-FR2 BCS ambiguity – Interpretation B | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | n.a. | | | | | | | | | |
| ***Source to TSG:*** | Ericsson | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2021-03-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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:*** | | 1) In the current version of the specification it is unclear which Bandwidth Combination Sets (BCS) apply for **FR1-FR2 Dual Connectivity**.  Notes in tables in section 5.5B.7 say "*NOTE 1: NR configuration for FR1 and FR2 are defined in TS 38.101-1 [2] and TS 38.101-2 [3] respectively*".  To lookup the two parts of the BCS in two tables, one would need two BCS IDs. However, the ANS.1 signalling provides currently only one such ID (*supportedBandwidthCombinationSet*).  Furthermore, the BCS definitions for FR1-FR2 DC would be different from the BCS definitions for FR1-FR2 CA (which are defined explicitly in 38.101-3 and which use different BCS IDs for the same bandwidth combinations). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1) Replace the notes in the tables in section 5.5B.7 by a statement in the beginning of that section clarifying that BCSs for FR1-FR2 DC are defined in the FR1-FR2 CA tables in section 5.5A.1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | It remains unclear how the BCSs for FR1-FR2 DC are defined. This prevents implementaiton and launch of FR1-FR2 DC products (UE and NW). | | | | | | | | |
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| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev. 1:  - Replace note in the table by text in the beginning of the seciton. | | | | | | | | |

---Start of changes---

### 5.5B.7 Inter-band NR-DC between FR1 and FR2

The configurations and bandwidth combination sets for the FR1-FR2 NR-DC combinations in the following sub-sections are defined in the tables for FR1-FR2 carrier aggregation in section 5.5A.1.

#### 5.5B.7.1 Inter-band NR-DC configurations between FR1 and FR2 (two bands)

Table 5.5B.7-1: Inter-band NR-DC configurations between FR1 and FR2 (two bands)

| Downlink NR DC  configuration | Uplink NR DC  configuration |
| --- | --- |
| DC\_n3A-n257A  DC\_n3A-n257D  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I | DC\_n3A-n257A  DC\_n3A-n257D  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I |
| DC\_n28A-n257A  DC\_n28A-n257D  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I | DC\_n28A-n257A  DC\_n28A-n257D  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I |
| DC\_n77A-n257A  DC\_n77A-n257D  DC\_n77A-n257E  DC\_n77A-n257F  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I  DC\_n77A-n257J  DC\_n77A-n257K  DC\_n77A-n257L  DC\_n77A-n257M  DC\_n77C-n257A  DC\_n77C-n257D  DC\_n77C-n257E  DC\_n77C-n257F | DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I  DC\_n77A-n257J  DC\_n77A-n257K  DC\_n77A-n257L  DC\_n77A-n257M |
| DC\_n77(2A)-n257A  DC\_n77(2A)-n257G  DC\_n77(2A)-n257H  DC\_n77(2A)-n257I  DC\_n77(2A)-n257J  DC\_n77(2A)-n257K  DC\_n77(2A)-n257L  DC\_n77(2A)-n257M | DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I  DC\_n77A-n257J  DC\_n77A-n257K  DC\_n77A-n257L  DC\_n77A-n257M |
| DC\_n77A-n261A  DC\_n77A-n261G  DC\_n77A-n261H  DC\_n77A-n261I  DC\_n77A-n261J  DC\_n77A-n261K  DC\_n77A-n261L  DC\_n77A-n261M | DC\_n77A-n261A  DC\_n77A-n261G  DC\_n77A-n261H  DC\_n77A-n261I  DC\_n77A-n261J  DC\_n77A-n261K  DC\_n77A-n261L  DC\_n77A-n261M |
| DC\_n77A-n261(2A)  DC\_n77A-n261(2G)  DC\_n77A-n261(2H)  DC\_n77A-n261(2I)  DC\_n77A-n261(3A)  DC\_n77A-n261(4A) | DC\_n77A-n261A |
| DC\_n77A-n261(A-G)  DC\_n77A-n261(A-H)  DC\_n77A-n261(A-I)  DC\_n77A-n261(G-H)  DC\_n77A-n261(G-I)  DC\_n77A-n261(H-I) | DC\_n77A-n261A |
| DC\_n78A-n257A  DC\_n78A-n257D  DC\_n78A-n257E  DC\_n78A-n257F  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I  DC\_n78A-n257J  DC\_n78A-n257K  DC\_n78A-n257L  DC\_n78A-n257M  DC\_n78C-n257A  DC\_n78C-n257D  DC\_n78C-n257E  DC\_n78C-n257F | DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |
| DC\_n79A-n257A  DC\_n79A-n257D  DC\_n79A-n257E  DC\_n79A-n257F  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I  DC\_n79A-n257J  DC\_n79A-n257K  DC\_n79A-n257L  DC\_n79A-n257M  DC\_n79C-n257A  DC\_n79C-n257D  DC\_n79C-n257E  DC\_n79C-n257F | DC\_n79A-n257A |

#### 5.5B.7.2 Inter-band NR-DC configurations between FR1 and FR2 (three bands)

Table 5.5B.7-2: Inter-band NR-DC configurations between FR1 and FR2 (three bands)

| Downlink NR DC  configuration | Uplink NR DC  configuration |
| --- | --- |
| DC\_n3A-n28A-n257A  DC\_n3A-n28A-n257G  DC\_n3A-n28A-n257H  DC\_n3A-n28A-n257I | DC\_n3A-n28A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I |
| DC\_n3A-n77A-n257A  DC\_n3A-n77A-n257G  DC\_n3A-n77A-n257H  DC\_n3A-n77A-n257I | DC\_n3A-n77A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n3A-n77(2A)-n257A  DC\_n3A-n77(2A)-n257G  DC\_n3A-n77(2A)-n257H  DC\_n3A-n77(2A)-n257I | DC\_n3A-n77A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n3A-n78A-n257A  DC\_n3A-n78A-n257G  DC\_n3A-n78A-n257H  DC\_n3A-n78A-n257I | DC\_n3A-n78A  DC\_n3A-n257A  DC\_n3A-n257G  DC\_n3A-n257H  DC\_n3A-n257I  DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |
| DC\_n28A-n77A-n257A  DC\_n28A-n77A-n257G  DC\_n28A-n77A-n257H  DC\_n28A-n77A-n257I | DC\_n28A-n77A  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I  DC\_n77A-n257A  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I |
| DC\_n28A-n78A-n257A  DC\_n28A-n78A-n257G  DC\_n28A-n78A-n257H  DC\_n28A-n78A-n257I | DC\_n28A-n78A  DC\_n28A-n257A  DC\_n28A-n257G  DC\_n28A-n257H  DC\_n28A-n257I  DC\_n78A-n257A  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I |

---End of changes---