**3GPP TSG- Meeting #111 *R4-24***

**Fukuoka, Japan, 20 -**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.870** | **CR** | **0008** | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 to TR 38.870 to add CA combinations to section 4.3.5 and editorial corrections | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_FR1\_TRP\_TRS\_enh | | | | |  | ***Date:*** | | | 2024-05-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TR 38.870, section 4.3.5 has no content. RAN #102 agrees to add 2CC DL and 1CC UL CA combinations to this work item as recorded in RP-234064.  Correct editorial errors in the note of Table 4.3.4-1. (Note: The content of this CR has been endorsed during RAN4 #110bis. This is a re-submission because RAN4 #110bis cannot approve CR) | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR adds relevant text and CA combinations to section 4.3.5, also editorial error correction for the note in Table 4.3.4-1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | CA combinations will not be defined under this work item. Editorial errors are not corrected. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 change >

### 4.3.5 CA band combinations

The principle of CA combination selection for FR1 TRP TRS OTA testing:

1. Limit CA combinations to the bands n1, n3, n5, n7, n8, n28, n77 and n79.
2. The selected CA combinations should not have MSD issue identified in TS 38.101-1 Section 7.3A.

The CA combinations for inter-band DL CA (two bands) with single UL are given in Table 4.3.5-1.

Table 4.3.5-1: Measurement parameters for example inter-band DL CA band combinations (two bands)

| CA  configuration | Uplink configurations | NR configurations |
| --- | --- | --- |
| CA\_n1A-n79A | n1 | Note 1 |
| CA\_n3A-n28A | n28 | Note 1 |
| CA\_n3A-n79A | n3 | Note 1 |
| CA\_n7A-n28A | n28 | Note 1 |
| CA\_n7A-n77A | n7 | Note 1 |
| CA\_n28A-n79A | n28 | Note 1 |
| Note 1: As per Table 4.3.3-1 and Table 4.3.3-2 in this specification, NR Low Mid High ranges in one component carrier correspond to those in the other component carrier. | | |

The CA band combinations provided in this clause do not imply correspondence to any TRP TRS requirement.

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Table 4.3.4-1: Measurement parameters for example inter-band EN-DC band combinations (two bands)

| EN-DC  configuration | E-UTRA configurations | NR configurations |
| --- | --- | --- |
| DC\_3A\_n28A | Note1 | Note2 |
| DC\_2A\_n41A | Note1 | Note2 |
| DC\_1A\_n78A | Note1 | Note2 |
| DC\_1A\_n79A | Note1 | Note2 |
| Note 1: As per TS 37.544 [14], Clause 5.3 and 5.4 (Measurement frequencies for E-UTRA FDD and TDD).  Note 2: As per Table 4.3.3-1 and Table 4.3.3-2 in this specification. The measurement parameters for NR Low Mid High ranges correspond to E-UTRA Low Mid High ranges respectively. | | |

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