**3GPP TSG-RAN4 WG4 Meeting #112 *rev1***

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| *CR-Form-v12.3* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
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|  | **38.101-1** | **CR** |  | **rev** | **1** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network |  |

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| ***Title:*** | CR to TS 38.101-1 Rel-18 Corrections to ACLR for CA\_NC\_NS\_100 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Skyworks Solutions, Inc. | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18  NR\_newRAT-Core | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | This CR implements corrections that were agreed in WF R4-2403824 and discussed in R4-2400372. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the following corrections to core requirements of sub-clause Clause 6.5A.2.4.2.4   * For 10<=Wgap < 20MHz: only the UTRA ACLR1 requirement applies is the gap * For Wgap >= 20MHz: both the UTRA ACLR1 and the UTRA ACLR2 requirements apply is the gap | | | | | | | | |
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| ***Consequences if not approved:*** | | In-gap ACLR requirements remain incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.5A.2.4.2.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS38.521 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | | This is a revision of R4-2413053. | | | | | | | | |

**---Start of changes****---**

6.5A.2.4.2.4 UTRA ACLR for Intra-band non-contiguous CA

For intra-band non-contiguous carrier aggregation, UTRA adjacent channel leakage power ratio (UTRAACLR) is the ratio of the sum of the filtered mean power centred on each assigned channel frequency to the filtered mean power centred on an adjacent(s) UTRA channel frequency. In case the gap bandwidth Wgap between 2 uplink CCs is smaller than 10MHz then no UTRA ACLR requirement is set for the gap. In case Wgap is greater than or equal to 10MHz but less than 20MHz, then only the first UTRAACLR (UTRAACLR1) requirement applies in the gap. In case Wgap is greater than or equal to 20MHz, then both the first and the second UTRAACLR (UTRAACLR1 and UTRAACLR2) requirements apply in the gap. Each assigned NR channel power is measured with rectangular filters with measurement bandwidths specified in Table 6.5.2.4.1-1 and adjacent UTRA channel power is measured with a RRC filter with roll-off factor = 0.22 and bandwidth of 3.84 MHz. If the measured adjacent channel power is greater than –50dBm then the UTRAACLR1 and UTRAACLR2 shall be higher than the value specified in Table 6.5A.2.4.2.4-1.

**Table 6.5A.2.4.2.4-1: General requirements for intra-band non-contiguous CA ACLR**

|  |  |  |
| --- | --- | --- |
|  | **ACLR / Measurement bandwidth** | **UTRA ACLR requirement** |
| CA Measurement bandwidth for each sub block  (NOTE 1) | MBWACLR |  |
| The first adjacent UTRA channel (UTRAACLR1) center frequency from NR channel edge | ± 2.5 MHz | 33dB |
| The 2nd adjacent UTRA channel (UTRAACLR2) center frequency from NR channel edge | ± 7.5 MHz | 36dB |
| NOTE 1: MBWACLR is the single-channel ACLR measurement bandwidths specified in 6.5.2.4.1. | | |

**---End of changes---**