**3GPP TSG-RAN4 Meeting #112 *R4-24xxxxx***

**Maastricht, Netherlands, 19th Aug 2024 - 23rd Aug 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.141-1** | **CR** | **0458** | **rev** | **1** | **Current version:** | **17.14.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | (NR\_6GHz\_unlic\_EU-Core) CR to 38.141-1 on ACLR and CACLR in non-contiguous spectrum | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_6GHz\_unlic\_EU-Core | | | | |  | ***Date:*** | | | 2024-08-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There are separate ACLR and CACLR tables for bands n46, n96 and n102. In a previous CR to 38.141-1, it was clarified that the ACLR/CACLR limits specified for other bands are not applicable to band n46, n96 and n102 by removing the table references to Tables 6.6.3.5.2-3 and 6.6.3.5.2-4 in the preamble to the requirement.  (Original endorsed Cat F Rel-17 CR for [NR\_6GHz\_unlic\_EU-Core] is in R4‑2214748, Agreed Big Rel-17 CR in R4-2215187).  In doing this, the context of the statement was removed making it non-specific and even giving the impression that both ACLR and CACLR throughout the clause shall apply, while in fact the two requirements are mutually exclusive. | | | | | | | | |
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| ***Summary of change:*** | | It is clarified that either ACLR or CACLR shall apply, depending on the operating band and sub-block or Inter RF Bandwidth gap size (Wgap) where the limit applies. | | | | | | | | |
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| ***Consequences if not approved:*** | | It would remain ambiguous as to when the ACLR and CACLR requirements apply. | | | | | | | | |
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| ***Clauses affected:*** | | 6.6.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | 38.104 | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

### 6.6.3 Adjacent Channel Leakage Power Ratio (ACLR)

#### 6.6.3.1 Definition and applicability

Adjacent Channel Leakage power Ratio (ACLR) is the ratio of the filtered mean power centred on the assigned channel frequency to the filtered mean power centred on an adjacent channel frequency.

The requirements shall apply outside the Base Station RF Bandwidth or Radio Bandwidth whatever the type of transmitter considered (single carrier or multi-carrier) and for all transmission modes foreseen by the manufacturer's specification.

The requirements shall also apply if the BS supports NB-IoT operation in NR in-band.

For a BS operating in non-contiguous spectrum, the ACLR or the CACLR requirement in Table 6.6.3.2-1a and Tables 6.6.3.5.2-3 to 6.6.3.5.2.4ashall apply in *sub block gaps*, depending on the *operating band* and the *sub-block* *gap size* (Wgap) where the limit applies.

For a *multi-band connector*, the ACLR or the CACLR requirement in Table 6.6.3.2-1a and Tables 6.6.3.5.2-3 to 6.6.3.5.2.4a shall apply in *Inter RF Bandwidth gaps*, depending on the *operating band* and the *Inter RF Bandwidth gap size* (Wgap) where the limit applies.

The requirement applies during the *transmitter ON period*.