**3GPP TSG-RAN4 Meeting #112bis *R4-2416388***

**Hefei, Anhui, China, 14th – 18th October, 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | **draft** | **rev** | **-** | **Current version:** | **18.7.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | draft CR to TS 38.133: Introduction of the 1.4GHz band  |
|  |  |
| ***Source to WG:*** | ZTE Corporation, Sanechips |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_FDD\_1400MHz-Core |  | ***Date:*** | 2024-10-15 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *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 canbe 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:*** | The new NR band is being specified, it should be added to band groups table. |
|  |  |
| ***Summary of change:*** | Add new band n110 to the relevant band group in the NR band groups table. |
|  |  |
| ***Consequences if not approved:*** | The new NR band won’t be correctly supported. |
|  |  |
| ***Clauses affected:*** | 3.5.2 |
|  |  |
|  | **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 the change>*

### 3.5.2 NR operating bands in FR1

NR frequency bands grouping for FR1 is specified in Table 3.5.2-1.

Table 3.5.2-1: NR frequency band groups for FR1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Group | NR FDD | NR TDD | NR SDL | NR CCA10 |
|  | Band group notation | Operating bands | Band group notation | Operating bands | Band group notation | Operating bands | Band group notation | Operating bands |
| A | NR\_FDD\_FR1\_A | n1, n18, n24, n70, n744, n91, n92, n93, n94, n100, n109, n110 | NR\_TDD\_FR1\_A | n34, n389, n39, n40, n50, n51, n53, n54, n101 | NR\_SDL\_FR1\_A | n67, n75, n76 | NR\_CCA\_FR1\_A | - |
| B | NR\_FDD\_FR1\_B | n65, n66, n743 | NR\_TDD\_FR1\_B | n387 | NR\_SDL\_FR1\_B | - | NR\_CCA\_FR1\_B | - |
| C | NR\_FDD\_FR1\_C | n30 | NR\_TDD\_FR1\_C | n48, n771, n78, n79 | NR\_SDL\_FR1\_C | - | NR\_CCA\_FR1\_C | - |
| D | NR\_FDD\_FR1\_D | n28 | NR\_TDD\_FR1\_D | n772 | NR\_SDL\_FR1\_D | - | NR\_CCA\_FR1\_D | - |
| E | NR\_FDD\_FR1\_E | n2, n5, n7 | NR\_TDD\_FR1\_E | n41, n90 | NR\_SDL\_FR1\_E | - | NR\_CCA\_FR1\_E | - |
| F | NR\_FDD\_FR1\_F | n266 | NR\_TDD\_FR1\_F | - | NR\_SDL\_FR1\_F | - | NR\_CCA\_FR1\_F | - |
| G | NR\_FDD\_FR1\_G | n3, n8, n12, n13, n1412,, n20, n71, n85, n10511, n106 | NR\_TDD\_FR1\_G | n104 | NR\_SDL\_FR1\_G | n29 | NR\_CCA\_FR1\_G | - |
| H | NR\_FDD\_FR1\_H | n25 | NR\_TDD\_FR1\_H | - | NR\_SDL\_FR1\_H | - | NR\_CCA\_FR1\_H | - |
| I | NR\_FDD\_FR1\_I | - | NR\_TDD\_FR1\_I |  | NR\_SDL\_FR1\_I | - | NR\_CCA\_FR1\_I | n46 |
| J | NR\_FDD\_FR1\_J | - | NR\_TDD\_FR1\_J | n478,12 | NR\_SDL\_FR1\_J | - | NR\_CCA\_FR1\_J | n96, n102 |
| K | NR\_FDD\_FR1\_K | - | NR\_TDD\_FR1\_K | - | NR\_SDL\_FR1\_K | - | NR\_CCA\_FR1\_K | - |
| L | NR\_FDD\_FR1\_L | - | NR\_TDD\_FR1\_L | - | NR\_SDL\_FR1\_L | - | NR\_CCA\_FR1\_L | - |
| M | NR\_FDD\_FR1\_M | - | NR\_TDD\_FR1\_M | - | NR\_SDL\_FR1\_M | - | NR\_CCA\_FR1\_M | - |
| N | NR\_FDD\_FR1\_N | n31, n72 | NR\_TDD\_FR1\_N | - | NR\_SDL\_FR1\_N | - | NR\_CCA\_FR1\_N | - |
| NOTE 1: Except 3.8 GHz to 4.2 GHz.NOTE 2: Only 3.8 GHz to 4.2 GHz.NOTE 3: Except 1475.9 MHz to 1510.9 MHz.NOTE 4: Only when the band is confined in 1475.9 MHz to 1510.9 MHz.NOTE 5: These bands are used only in NR carrier aggregation with other NR bands according to NR CA band combinations specified in TS 38.101-1 [18] and TS 38.101-3 [20].NOTE 6: The minimum Io condition is reduced by 0.5 dB when the carrier frequency of the assigned NR channel bandwidth is within 865-894 MHz. NOTE 7: When this band is used for V2X SL service, the band is exclusively used for NR V2X in particular regions [18].NOTE 8: This band is unlicensed band used for V2X service. There is no expected network deployment in this band. [18].NOTE 9: When this band is only used for WAN service.NOTE 10: Operating bands where operation on carrier frequencies with CCA is supported.NOTE 11: The minimum Io condition is reduced by 0.5 dB when the downlink channel overlap the 612-617 MHz frequency range and the channel bandwidth is 5 MHz.NOTE 12: This band can be used for V2X SL operation. |

*<end of the change>*