**3GPP TSG-RAN WG4 Meeting #113 R4-2420451**

**Orlando, US, 18th – 22nd November, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.307** | **CR** | - | **rev** | - | **Current version:** | **18.2.0** |  |
|  |
| *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 on introducing release independence of 40MHz for n28 |
|  |  |
| ***Source to WG:*** | CMCC, CBN, China Broadnet |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_n28\_PC2\_40MHz\_CBW-Core |  | ***Date:*** | 2024-11-20 |
|  |  |  |  |  |
| ***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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | Release independence of 40MHz from Rel-16 for n28 needs to be clarified. |
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| ***Summary of change:*** | Introduce 40MHz for n28 is release independent from Rel-16 |
|  |  |
| ***Consequences if not approved:*** | The requirements of 40MHz for n28 will be release independent from Rel-15 without this change. |
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| ***Clauses affected:*** | 5.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR … CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.521-1 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

<START OF THE CHANGE 1>

## 5.1 Additional NR operating bands, UE power classes and channel bandwidths for NR frequency range 1

Requirements for additional NR operating bands and power classes of TS 38.101-1 in Rel-P [2] are introduced via this clause.

Table 5.1-1: NR operating bands

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Duplex-mode | Releaseindependent from | Requirements to be fulfilled(see TS 38.307 of the release in which the band was introduced) |
| Operating bands | FDD, TDD, SDL, SUL | Rel-15 | Table B.4.1-1, Table B.4.3-1 |
| Shared spectrum access operating bands | TDD | Rel-16 | Table B.4.7-1 |
| UL MIMO operating bands without ULFPTx | FDD, TDD | Rel-15 | Table B.4.13-1 |
| UL MIMO operating bands with ULFPTx | FDD, TDD | Rel-16 |  |
| UL MIMO operating bands with or without ULFPTx | SUL | Rel-17 |  |

Table 5.1-2: NR UE power class

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Duplex-mode | Releaseindependent from | Requirements to be fulfilled(see TS 38.307 of the release in which the power class was introduced) |
| Power Class 1 | FDD | Rel-15 | Table B.4.1-1 |
| Power Class 1.5 | TDD | Rel-15 | Table B.4.1-1, Table B.4.3-1 |
| Power Class 2 | FDD, TDD | Rel-15 | Table B.4.1-1, Table B.4.3-1 |
| Power Class 3 | FDD, TDD, SUL | Rel-15 | Table B.4.1-1, Table B.4.3-1 |

Table 5.1-3: NR channel bandwidths

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Duplex-mode | Releaseindependent from | Requirements to be fulfilled(see TS 38.307 of the release in which the channel bandwidth was introduced) |
| NR channel bandwidths, all unless otherwise stated | FDD, TDD, SDL, SUL | Rel-1540MHz for n28 is supported from Rel-16 | Table B.4.1-1, Table B.4.3-1 |
| Channel bandwidth of 3 MHz | FDD | Rel-18 | Table B.4.1-1 |

<END OF THE CHANGE 1>