**3GPP T****SG-RAN WG4 Meeting#103-e R4-2211262**

**E-meeting, 9 May – 20 May 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **36.101** | **CR** | **5871** | **rev** | **-** | **Current version:** | **14.22.0** |  |
|  |
| *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:***  | Big CR for 36.101 Maintenance (Rel-14) |
|  |  |
| ***Source to WG:*** | MCC, Meta |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NB\_IOT\_R14\_bands-Core, NB\_IOTenh-Core |  | ***Date:*** | 2022-05-24 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-14 |
|  | *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:*** | This big CR merge the mutiple endorsed draft CRs. The reason for change in each endorsed draft CR is copied below.R4-2210714 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA, Dish Network<Reason for change>A table for NB-IoT Bands for use in the USA was added with the intention of meeting FCC emission requirement (ending to skip the uppermost and lowermost 100KHz for UL on some bands). This requirement is for UL only, however, DL bands were also changed for the NB-IoT operation in the USA. |
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| ***Summary of change:*** | R4-2210714 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA, Dish Network<Summary of change>Band 66 DL changed to reflect entire Band 66 DL definitionBand 70 added to table 5.5F-1. |
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| ***Consequences if not approved:*** | R4-2210714 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA, Dish Network<Consequences if not approved >Band 70 is missing from the US bands tableBand 66 DL frequency range is misleading the band definition and incorrect. |
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| ***Clauses affected:*** | 5.5F |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS/36.521-1  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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## 5.5F Operating bands for category NB1 and NB2

Category NB1 and NB2 are designed to operate in the E-UTRA operating bands 1, 2, 3, 5, 8, 11, 12, 13, 17, 18, 19, 20, 21, 25, 26, 28, 31, 66 and 70 which are defined in Table 5.5-1. Category NB1 and NB2 systems operate in HD-FDD duplex mode.

In case UE receives network signaling value NS\_04 on any of the operating bands listed in Table 5.5F-1 then the lower and upper limit of those bands are shown in Table 5.5F-1 to account for the USA emission requirements.

Table 5.5F-1 E-UTRA operating bands for NB-IoT in the USA

|  |  |  |  |
| --- | --- | --- | --- |
| E‑UTRA Operating Band | Uplink (UL) operating bandBS receiveUE transmit | Downlink (DL) operating bandBS transmit UE receive | Duplex Mode |
| FUL\_low – FUL\_high | FDL\_low – FDL\_high |
| 2 | 1850.1 MHz | – | 1909.9 MHz | 1930.1 MHz | – | 1989.9 MHz | FDD |
| 4 | 1710.1 MHz | – | 1754.9 MHz  | 2110.1 MHz | – | 2154.9 MHz | FDD |
| 5 | 824.1 MHz | – | 848.9 MHz | 869.1 MHz | – | 893.9MHz | FDD |
| 12 | 699 MHz | – | 715.9 MHz | 729 MHz | – | 745.9 MHz | FDD |
| 13 | 777 MHz | – | 786.9 MHz | 746 MHz | – | 755.9 MHz | FDD |
| 17 | 704.1 MHz | – | 715.9 MHz | 734.1 MHz | – | 745.9 MHz | FDD |
| 25 | 1850.1 MHz | – | 1914.9 MHz | 1930.1 MHz | – | 1994.9 MHz | FDD |
| 26 | 814.1 MHz | – | 848.9 MHz | 859.1 MHz | – | 893.9 MHz | FDD |
| 66 | 1710.1 MHz | – | 1779.9 MHz  |  2110.1 MHz | – | 2199.9 MHz | FDD |
| 70 | 1695.1 MHz | – | 1709.9 MHz  | 1995.1 MHz | – | 2019.9 MHz | FDD |

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