**3GPP TSG-RAN WG4 Meeting #111 *rev-R4-2407385***

**Fukuoka City, Fukuoka, Japan, 20th – 24th May 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.104** | **CR** | **0607** | **rev** | **1** | **Current version:** | **17.13.0** |  |
|  |
| *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\_NTN\_solutions) CR for TS 38.104: Modification of HAPS operationg bands description |
|  |  |
| ***Source to WG:*** |  SoftBank Corp., Deutsche Telekom, NTT DOCOMO, KDDI |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_NTN\_solutions |  | ***Date:*** | 2024-05-13 |
|  |  |  |  |  |
| ***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 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:*** | CR to capture HAPS additional operating bands based on the result of WRC-23. |
|  |  |
| ***Summary of change:*** | Add description of NR operating bands for HAPS |
|  |  |
| ***Consequences if not approved:*** | Addtional HAPS operationg bands are not captured. |
|  |  |
| ***Clauses affected:*** | Clause 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:*** | TDD bands are removed. |

## **<Start of Change>**

## 5.2 *Operating bands*

NR is designed to operate in the *operating bands* defined in table 5.2-1 and 5.2-2.

NR operating bands n1, n2, n3, n5, n7, n8, n12, n13, n20, n25, n26, n28, n67, n85, which are defined in Table 5.2-1, can be applied for HAPS operation.

Note: The frequency range of the downlink in bands n2 and n25 is limited to 1930-1980 MHz.

For the purpose of protecting mobile service systems including IMT terrestrial systems, when operating HAPS in band n2, n3, n25 or n26, pfd limits shall apply as specified in WRC-23 Final Acts Resolution 221 [XX].

For the purpose of protecting mobile service systems including IMT terrestrial systems, when operating HAPS in band n5, n8, n12, n13, n20, n28, n67 or n85, pfd limits shall apply as specified in WRC-23 Final Acts Resolution COM3/4 [XX].

For the purpose of protecting mobile service systems including IMT terrestrial systems, when operating HAPS in band n7, pfd limits shall apply as specified in WRC-23 Final Acts Resolution COM4/4 [XX].

NB-IoT is designed to operate in the NR operating bands n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n41, n65, n66, n70, n71, n74, n85, n90 which are defined in Table 5.2-1.

## **<End of Change>**