**3GPP TSG-RAN WG2 Meeting #117-e *R2-220xxxx***

**Electronic, February 21 – March 03, 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **36.306** | **CR** | **1827** | **rev** | **4** | **Current version:** | **16.7.0** |  |
|  |
| *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 | **X** | Core Network |  |

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|  |
| ***Title:***  |  Addition of NR-U RSSI/CO measurement UE capability |
|  |  |
| ***Source to WG:*** | Apple, xiaomi, vivo, Lenovo, Motorola Mobility, Ericsson, Qualcomm Incorporated |
| ***Source to TSG:*** | RAN2 |
|  |  |
| ***Work item code:*** | TEI17, NR\_unlic-Core |  | ***Date:*** | 2022-02-21 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | NR-U RSSI/CO measurement UE capability is only carried in UE-CapabilityRAT-ContainerList, which is not required for eNB to decode. However, in TS36.331, NR-U RSSI measurement configuration is enabled. The problem then is eNB cannot make such configuration to UE without knowing UE capability.It was agreed in RAN2 #113 meeting to introduce a new UE capability in TEI17 on this matter.  |
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| ***Summary of change:*** | To add the per band inter-RAT NR-U RSSI/CO measurement UE capability. |
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| ***Consequences if not approved:*** | eNB cannot configure UE with NR-U RSSI/CO measurement without knowing the corresponding UE capability. |
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| ***Clauses affected:*** | 4.3.6 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS/TR 36.331 CR 4729 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### 4.3.6 Measurement parameters

<Text omitted>

--------------------------------------------------------------------------<Start of change>----------------------------------------------------------------------

4.3.6.XX *nr-RSSI-ChannelOccupancyReporting-r17*

This field indicates whether the UE supports performing measurements and reporting of RSSI and channel occupancy on the corresponding NR band. If both *sharedSpectrumMeasNR-EN-DC-r17* and *sharedSpectrumMeasNR-SA-r17* are included, the UE shall set the value of *nr-RSSI-ChannelOccupancyReporting-r17* consistently for the same NR band.

--------------------------------------------------------------------------<End of change>-------------------------------------------------------------------------