**3GPP TSG-RAN WG2 Meeting #109 electronic *R2-2002151***

**24th Feb – 6th Mar, 2020**

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| *CR-Form-v11.4* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.306** | **CR** | **0254** | **rev** | **1** | **Current version:** | **15.8.0** |  |
|  | | | | | | | | |
| *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 the maximum stored number of deprioritisation frequencies | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2020-02-14 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-15 |
|  | *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 can be 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | There was an agreement that the UE shall be able to store up to 8 deprioritisation frequencies (captured in 38.306) in R2-1818689 of RAN2#104.  However, the content corresponding to above description are absent in TS 38.306. | | | | | | | | |
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| ***Summary of change:*** | | Adding the maximum number of deprioritisation frequencies that UE shall be able to store in TS 38.306.  **Impact Analysis**  Impacted 5G architecture options: Standalone, NR-DC, NE-DC  Impacted functionality:  UE radio capability  Inter-operability:  1. If the network is implemented according to the CR and the UE is not, there is no inter-operability problem*.*  2. If the UE is implemented according to the CR and the network is not, there is no inter-operability problem. | | | | | | | | |
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| ***Consequences if not approved:*** | | The maximum number of deprioritisation frenquencies that UE shall be able to store will not be specified, the UE don’t know how many deprioritisation frequencies that it shall be able to store, and it may have a negative impact on the cell reselection procedure. | | | | | | | | |
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| ***Clauses affected:*** | | 8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

CHANGE START

# 8 UE Capability Constraints

The following table lists constraints indicating the UE capabilities that the UE shall support.

| Parameter | Description | Value |
| --- | --- | --- |
| #DRBs | The number of DRBs that a UE shall support. | 16 per UE.  NOTE: 8 per MAC entity with duplication. |
| #minCellperMeasObjectNR | The minimum number of neighbour cells (excluding black list cells) that a UE shall be able to store associated with a MeasObjectNR. | 32 |
| #minBlackCellRangesperMeasObjectNR | The minimum number of blacklist cell PCI ranges that a UE shall be able to store associated with a MeasObjectNR. | 8 |
| #minCellperMeasObjectEUTRA | The minimum number of neighbour cells that a UE shall be able to store associated with a MeasObjectEUTRA. | 32 |
| #minCellTotal | The minimum number of neighbour cells (excluding black list cells) that UE shall be able to store in total from all measurement objects configured. | 256 with counting CSI-RS and SSB as 2. |
| #cell for CGI reporting | the limit regarding the cells NR can configure includes the cell for which the UE is requested to report CGI. | (# minCellperMeasObjectRAT - 1), where RAT represents NR and EUTRA. |
| #maxDeprioritisationFreq | The UE shall be able to store a depriotisation request for up to 8 frequencies (applicable when receiving another frequency specific deprioritisation request via *RRCRelease* before T325 expiry). | 8 |

CHANGE END