**3GPP TSG-****RAN2 Meeting#110-e *R2-200xxxx***

**Electronic, 1 – 12 June 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.306** | **CR** | **-** | **rev** | **-** | **Current version:** | **16.0.0** |  |
|  | | | | | | | | |
| *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:*** | 36.306 CR for addressing overheating issue in (NG)EN-DC | | | | | | | | | |
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| ***Source to WG:*** | Huawei, Huawei Device… | | | | | | | | | |
| ***Source to TSG:*** | RAN2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-05-xx |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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: | | When UE experiences overheating problem in case of (NG)EN-DC, UE is only allowed to report reduced UE category and reduced sCC to the MN. Currently the eNB can release the SCG for the UE to help UE to address the overheating problem. In NR SA and MR-DC with NR as MN, the UE can also report reduced maximum MIMO layer and/or reduced maximum aggregated bandwidth, and the gNB can adjust the MIMO layer and aggregated bandwidth to address the UE overheating problem.  For (NG)EN-DC, it is also desired that the gNB can adjust the sCC of the SCG, the MIMO layer of the SCG serving cell and/or aggregated bandwidth of the SCG carrier for the UE, which requires that the gNB can get the UE preferred maximum number of SCell, maximum number of MIMO layer and maximum aggregated bandwidth. | | | | | | | | |
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| ***Summary of change:*** | | UE can indicate the capability of reporting overheating assistance information for SCG.  **Impact Analysis**  Impacted 5G architecture options: (NG)EN-DC  Impacted functionality:  UE Assistance Information  Inter-operability:  If the UE is implemented according to the CR and the NW is not, the NW will not be able to interpret correctly the message.  If the NW is implemented according to the CR and the UE is not, there is no inter-operability issue since the UE won’t report these new fields. | | | | | | | | |
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| ***Consequences if not approved:*** | | The UE could not report its preferred MIMO layer for the serving cells of SCG and aggregated bandwidth of SCG carriers when the UE is experiencing overheating problem in (NG)EN-DC, which may result in the failure to address the UE’s overheating problem. | | | | | | | | |
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| ***Clauses affected:*** | | 4.3.15.x | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 36.331 CR 4176  TS 38.331 CR 1413 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

---------------------------------------------START OF CHANGE-------------------------------------------

### 4.3.15 Other parameters

*[Text omitted]*

#### 4.3.15.16 *nonCSG-SI-Reporting-r14*

This parameter defines whether the UE supports reporting of PLMN list from cells not broadcasting the field *csg-Identity*.

#### 4.3.15.x *overheatingIndForSCG-r16*

This parameter defines whether the UE supports overheating assistance information for SCG as specified in TS 36.331 [5]..

---------------------------------------------END OF CHANGE---------------------------------------------