**3GPP TSG-RAN WG2 Meeting #122 R2-230xxxx**

**Inchon Korea 22th -26th May, 2023**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **37.340** | **CR** | **0367** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  |
| *For* ***[HELP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | 37.340 running CR for introduction of IDC |
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| ***Source to WG:*** | ZTE Corporation, Sanechips |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_IDC\_enh-Core |  | ***Date:*** | 2023-5-29 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-18 |
|  | *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)* |
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| ***Reason for change:*** | This CR is for the support of Rel-18 IDC solutions. |
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| ***Summary of change:*** | Introduction of Rel-18 IDC solutions.  |
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| ***Consequences if not approved:*** | Rel-18 IDC solutions are not supported in NR |
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| ***Clauses affected:*** | 7.10,13.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.300 CR 0680TS 38.331 CR 4164TS 38306 CR 0915 |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | R2-2306593 |

START OF CHANGES

7.10 UE assistance information

In MR-DC, the UE can be configured to report MCG specific UE assistance information if the MN is a gNB and/or SCG specific UE assistance information if the SN is a gNB, if it prefers an adjustment on the connected mode DRX parameters, the maximum aggregated bandwidth, the maximum number of secondary component carriers, the maximum number of MIMO layers, whether the UE prefers the SCG to be deactivated, the minimum scheduling offset for cross-slot scheduling cycle length, whether the UE is applying RLM/BFD measurements relaxation for power saving, and/or whether the UE is experiencing IDC problems as described in TS 36.300 [2] and TS 38.300 [3]. In these cases, it is up to the network whether to accommodate the preference or how to use the relaxation status indications or how to solve the IDC problems. SCG specific UE assistance information for power saving or IDC can be configured by the network via SRB1 or SRB3. SCG specific UE assistance information for power saving or IDC is directly transmitted to the SN via SRB3, if SRB3 is configured and the SCG is activated, otherwise UE transmits SCG specific UE assistance information for power saving or IDC in a transparent container to the MN. When network simultaneously configures the UE to perform radio link monitoring on the SCG and beam failure detection on the SCG while the SCG is deactivated, UE assistance information for the relaxation state report of RLM/BFD measurements for SCG is reported over MCG. UE can implicitly indicate a preference for NR SCG release by indicating zero number of carriers and zero aggregated maximum bandwidth in both FR1 and FR2.

NEXT CHANGE

## 13.1 Interference avoidance for in-device coexistence

In-Device Coexistence (IDC) solution as described in TS 36.300 [2] and TS 38.300 [3] is extended to address EN-DC/NR-DC operation. For the FDM solution, the list of NR carriers or NR frequency ranges suffering from IDC problems is signalled in IDC report. For the TDM solution, a periodic pattern can be signalled per-CG in IDC report. In EN-DC, the MN can configure the UE to report FDM assistance information with affected carriers. In NR-DC, the MN can configure the UE to report FDM assistance information with affected frequency ranges and/or TDM assistance information. For both EN-DC and NR-DC, the SN can configure the UE to report FDM assistance information with affected frequency ranges and/or TDM assistance information to the SN via SRB1 or SRB3, if SRB3 is configured and the SCG is activated. The network can also configure autonomous denial per-CG for the UE to solve IDC problems. The requirement on RRM/RLM/CSI measurements in different phases of IDC interference defined in TS 36.300 [2] is applicable except that for NR serving cell, the requirements in TS 38.133 [8] and TS 38.101-1 [12], TS 38.101-2 [13], TS 38.101-3 [14] apply.

END OF CHANGES