**3GPP TSG-RAN WG3 Meeting#109-e R3-205363**

**E-Meeting, 17 – 28 August, 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **36.300** | **CR** |  | **rev** |  | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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:*** | Introducing UE Radio Capability Mapping procedure for EN-DC | | | | | | | | | | |
|  |  | | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | | |
| ***Source to TSG:*** | RAN3 | | | | | | | | | | |
|  |  | | | | | | | | | | |
| ***Work item code:*** | RACS-RAN | | | | | |  | | ***Date:*** | | 2020-08-05 |
|  |  | | | | |  | | |  | |  |
| ***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:*** | | It has been agreed that the RACS feature is supported in EN-DC. For EN-DC, since some SN nodes (e.g. the SN-only node) have no control plane with the EPC, those SN nodes are not able require the UE capabilities from the EPC.  Therefore, there is a need for the en-gNB to request the eNB to send the UE radio capability information associated with a UE radio capability ID. | | | | | | | | | |
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| ***Summary of change:*** | | Add in EN-DC the UE Radio Capability ID mapping procedure.  Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has isolated impact with the previous version of the specification (same release) because only a new UE Radio Capability Mapping procedure is introduced.  The impact can be considered isolated. | | | | | | | | | |
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| ***Consequences if not approved:*** | | Agreed principle for RACS for EN-DC would not be supported. | | | | | | | | | |
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| ***Clauses affected:*** | |  | | | | | | | | | |
|  | |  | | | | | | | | | |
|  | | **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:*** | | | |  | | | | | | | |

START OF CHANGE

### 20.2.1 X2-CP Functions

The X2AP protocol supports the following functions:

- Intra LTE-Access-System Mobility Support for UE in ECM-CONNECTED:

- Context transfer from source eNB to target eNB;

- Control of user plane tunnels between source eNB and target eNB;

- Handover cancellation.

- Support of DC for UE in ECM-CONNECTED:

- Establishment, Modification and Release of a UE context at the SeNB;

- Control of user plane tunnels between MeNB and SeNB for a specific UE for split bearer and data forwarding;

- Provision of the TNL information of the S1 user plane tunnels for SCG bearers.

- Support of EN-DC for UE in ECM-CONNECTED:

- Establishment, Modification and Release of a UE context at the SgNB;

- Control of user plane tunnels between MeNB and SgNB for a specific UE for split bearer, SCG split bearer and data forwarding;

- Provision of the TNL information of the S1 user plane tunnels for SCG bearers and SCG split bearers.

- Support of inter-eNB UE Context Resume:

- Retrieval of UE context for a UE which attempts to resume its RRC connection in an eNB different from where the RRC connection was suspended.

- Load Management;

- General X2 management and error handling functions:

- Error indication;

- Setting up the X2;

- Resetting the X2;

- Updating the X2 configuration data;

- X2 Release;

- X2AP Message Transfer;

- Registration;

- X2 Removal.

- Mobility failure event notification and information exchange in support of handover settings negotiation;

- Energy Saving. This function allows decreasing energy consumption by enabling indication of cell activation/deactivation.

- Support of cell resource coordination between eNB and en-gNB.

- Support of UE Radio Capability ID Mapping between eNB and en-gNB.

#### <Unchanged Text Omitted>

#### 20.2.2.32 Partial Reset procedure for EN-DC

The Partial Reset procedure for EN-DC is triggered by the en-gNB or the MeNB to initiate the release of the resources for a list of UEs with the EN-DC configuration.



Figure 20.2.2.32-1: Partial Reset procedure for EN-DC (initiated at the en-gNB)



Figure 20.2.2.32-2: Partial Reset procedure for EN-DC (initiated at the MeNB)

20.2.2.xx UE Radio Capability ID Mapping procedure

The purpose of the UE Radio Capability ID Mapping Request procedure is to enable the en-gNB to request the MeNB to provide the UE Radio Capability information that maps to a specific UE Radio Capability ID.



Figure 20.2.2.xx-1: UE Radio Capability ID Mapping procedure

END OF CHANGE