3GPP TSG-RAN3 Meeting #129 *R3-255xxx*

Bengaluru, India, 25 - 29 August 2025

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.300** | **CR** | **Draft** | **rev** | **-** | **Current version:** | **17.10.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Clarification on BL CE UE in RRC\_INACTIVE | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2025-08-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | RAN3 has clarified in TS 38.300 that when the UE has an emergency PDU session the gNB should not configure eDRX for that UE in RRC\_INACTIVE.  RAN2 have further replied that the UE can also be kept in RRC\_CONNECTED for fast emergency callback.  For LTE-M UEs (e.g., BL CE UE) served by ng-eNB connected to 5GC and that are supporting RRC\_INACTIVE solution, the ng-eNB should similarly not release those UEs with eDRX configured in RRC\_INACTIVE state during an emergency PDU session, or keep them in RRC\_CONNECTED. A similar NOTE as in TS 38.300 is needed in TS 36.300. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | In section 24.5, it is clarified in a NOTE when the BL UE has an emergency PDU session that the ng-eNB should not release the UE to RRC\_INACTIVE with eDRX configured or keep the UE in RRC\_CONNECTED.  **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 it only adds clarification on eNB behaviour during an emergency PDU session to keep the UE in RRC\_CONNECTED or not configure eDRX when release to RRC\_INACTIVE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missing NW implementation description | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 24.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 modified section>**

24.5 Mobility

Intra-EUTRA inter-system Handover (i.e., handover between E-UTRA connected to 5GC and E-UTRA connected to EPC) is described in clause 10.2.2c and in TS 23.502 [83].

Neither DAPS Handover nor Conditional Handover are supported for E-UTRA connected to 5GC.

The inter-RAT intra-5GC Handover (i.e., handover between E-UTRA connected to 5GC and NR connected to 5GC) is described in clause 9.3.1.2 of TS 38.300 [79].

Inter-RAT handover to/from GERAN/UTRAN/CDMA2000 and cell change order to GERAN with NACC are not supported, and CS fallback described in clause 10.2.5 is not applied except for the functionality of release with redirection to GERAN/UTRAN.

The following mobility procedures are supported:

- RRC Connection Release with Redirection to GERAN/UTRAN/CDMA2000/EUTRAN;

- Cell Change Order to GERAN without NACC.

When the UE is connected to E-UTRA/5GC, inter system fallback towards E-UTRAN is performed when 5GC does not support some services, see TS 23.501 [82]. Depending on factors such as CN interface availability, network configuration and radio conditions, the fallback procedure results in either RRC CONNECTED state mobility (handover procedure) or RRC IDLE state mobility (redirection), see TS 23.501 [82] and TS 36.331 [16].

Except for NB-IoT, in the N2 signalling procedure, the AMF based on support for emergency services, voice service, any other services or for load balancing etc, may indicate the target CN type as EPC or 5GC to the ng-eNB node. When the target CN type is received by ng-eNB, the target CN type is also conveyed to the UE in RRC Connection Release message.

The mobility in RRC\_INACTIVE is described in clause 10.1.9.

For E-UTRA connected to 5GC, in RRC\_IDLE the UE monitors the PCCH for CN-initiated paging information, in RRC\_INACTIVE, except for NB-IoT, the UE monitors the PCCH for RAN-initiated and CN-initiated paging information. The RAN-initiated and CN-initiated paging occasions overlap and the same paging mechanism is used for both. Except for BL UEs, UEs in enhanced coverage and NB-IoT UEs, the extended DRX (eDRX) is not used for E-UTRA connected to 5GC. For BL UEs and UEs in enhanced coverage in RRC\_INACTIVE, extended DRX cycles up to 10.24 s without PTW are supported. The paging optimisation in clause 23.13 is also applicable, where AMF shall be considered instead of MME and ng-eNB shall be considered instead of eNB.

NOTE: If emergency PDU session resources are established, if the ng-eNB sends the UE to RRC\_INACTIVE state it should not configure the Extended DRX.

**<End of modified section>**