3GPP TSG-RAN WG3 Meeting #129 *R3-255xxx*

Bangalore, India, 25 – 29 August 2025

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **DRAFT** | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 emergency call back and UE RRC state | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core, NR\_redcap-Core | | | | |  | ***Date:*** | | | 25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | 7 |
|  | *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:*** | | In R3-255022, SA2 asks RAN3 to clarify the behaviour of NG-RAN node during the presence of the emergency PDU session, i.e., if NG-RAN can decide to release the RRC connection when the emergency PDU session exists, or if NG-RAN is required to not release RRC connection until the emergency PDU session is released by the SMF.  RAN3 has previously clarified 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. It is proposed to also capture this agreement in the existing NOTE.  **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 NG-RAN behaviour during an emergency PDU session to also keep the UE in RRC\_CONNECTED. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify existing note that the NG-RAN can also keep the UE in RRC-CONNECTED while having emergency PDU session. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Inconsistent agreements captured and missing NW implementation description. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.2.10 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

-------------------------------------- CHANGES START HERE --------------------------------------

### 9.2.10 Extended DRX for RRC\_IDLE and RRC\_INACTIVE

When extended DRX (eDRX) is used, the following applies:

- For RRC\_INACTIVE, eDRX configuration for RAN paging is decided and configured by NG-RAN. In RRC\_INACTIVE the UE monitors both RAN and CN paging;

- For RRC\_IDLE, eDRX for CN paging is configured by upper layers. In RRC\_IDLE the UE monitors only CN paging;

- Information on whether eDRX for CN paging and RAN paging is allowed on the cell is provided separately in system information;

- The maximum value of the eDRX cycle is 10485.76 seconds (2.91 hours) for RRC\_IDLE and 10.24 seconds for RRC\_INACTIVE, while the minimum value of the eDRX cycle is 2.56 seconds for both RRC\_IDLE and RRC\_INACTIVE;

- The hyper SFN (H-SFN) is broadcast by the cell and increments by one when the SFN wraps around;

- Paging Hyperframe (PH) refers to the H-SFN in which the UE starts monitoring paging according to DRX during a Paging Time Window (PTW) used in RRC\_IDLE. The PH and PTW are determined based on a formula (see TS 38.304 [10]) that is known by the AMF, UE and NG-RAN;

- H-SFN, PH and PTW are used if the eDRX cycle is greater than 10.24 seconds;

- When the RRC\_IDLE eDRX cycle is longer than the system information modification period, the UE verifies that stored system information remains valid before resuming/establishing an RRC connection.

NOTE: If emergency PDU session resources are established, the gNB should either keep the UE in RRC\_CONNECTED state until the emergency PDU session is released by the SMF or not configure the Extended DRX when sending the UE to RRC\_INACTIVE state. The gNB recognizes the emergency PDU session resources based on special ARP value of a QoS flow as specified in TS 23.501 [3].