**3GPP TSG-RAN WG2 Meeting #128 *DRAFT-R2-2411015***

**Orlando, USA, 18 – 22 November 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **1** | **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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Addition of reference to 38.304 for Qoffsettemp handling | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18 | | | | |  | ***Date:*** | | | 2024-11-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***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 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 the T300 expiry procedure description the reference to TS 38.304 is missing for handling of Qoffsettemp. However, similar references exist in 25.331 pointing to TS 25.304 and TS 36.304; and in TS 38.331 pointing to TS 38.304 and TS 36.304. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Addition of the reference to TS 38.304 in subclause 5.3.3.6.  **Impact analysis**  Impacted functionality: inter-RAT cell reselection.  Inter-operability:   1. If the network is implemented according to the CR and the UE is not there are no inter-operability issues. 2. If the UE is implemented according to the CR and the network is not there are no inter-operability issues.   Implementation of this CR by a earlier release UE will not cause compatibility issues. | | | | | | | | |
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| ***Consequences if not approved:*** | | The Qoffsettemp may be wrongly handled by the UE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.3.3.6, Annex G | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **N** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **N** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **N** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*First Modified Subclause*

#### 5.3.3.6 T300 expiry

The UE shall:

1> if timer T300 expires:

2> if UE has sent *RRCConnectionResumeRequest* message and has not received *RRCConnectionResume* message:

3> reset MAC;

3> if UE is resuming an RRC connection after early security reactivation in accordance with conditions in 5.3.3.18:

4> perform the actions as specified in 5.3.3.9a;

3> else:

4> re-establish RLC for all RBs that are established;

4> suspend SRB1;

2> else:

3> reset MAC, release the MAC configuration and re-establish RLC for all RBs that are established;

2> if the UE is a NB-IoT UE:

3> if *connEstFailOffset* is included in *SystemInformationBlockType2-NB*:

4> use *connEstFailOffset* for the parameter Qoffsettemp for the concerned cell when performing cell selection and reselection according to TS 36.304 [4];

3> else:

4> use value of infinity for the parameter Qoffsettemp for the concerned cell when performing cell selection and reselection according to TS 36.304 [4];

NOTE 0: For NB-IoT, the number of times that the UE detects T300 expiry on the same cell before applying connEstFailOffset and the amount of time that the UE applies connEstFailOffset before removing the offset from evaluation of the cell is up to UE implementation.

2> else if the UE supports RRC Connection Establishment failure temporary Qoffset and T300 has expired a consecutive *connEstFailCount* times on the same cell for which *txFailParams* is included in *SystemInformationBlockType2*:

3> for a period as indicated by *connEstFailOffsetValidity*:

4> use *connEstFailOffset* for the parameter Qoffsettemp for the concerned cell when performing cell selection and reselection according to TS 36.304 [4], TS 25.304 [40] and TS 38.304 [92];

NOTE 1: When performing cell selection, if no suitable or acceptable cell can be found, it is up to UE implementation whether to stop using *connEstFailOffset* for the parameter Qoffsettemp during *connEstFailOffsetValidity* for the concerned cell.

2> except for NB-IoT, store the following connection establishment failure information in the *VarConnEstFailReport* by setting its fields as follows:

3> clear the information included in *VarConnEstFailReport*, if any;

3> set the *plmn-Identity* to the PLMN selected by upper layers (see TS 23.122 [11], TS 24.301 [35]) from the PLMN(s) included in the *plmn-IdentityList* in *SystemInformationBlockType1*;

3> set the *failedCellId* to the global cell identity of the cell where connection establishment failure is detected;

3> set the *measResultFailedCell* to include the RSRP and RSRQ, if available, of the cell where connection establishment failure is detected and based on measurements collected up to the moment the UE detected the failure;

3> if available, set the *measResultNeighCells*, in order of decreasing ranking-criterion as used for cell re-selection, to include neighbouring cell measurements for at most the following number of neighbouring cells: 6 intra-frequency and 3 inter-frequency neighbours per frequency as well as 3 inter-RAT neighbours, per frequency/ set of frequencies (GERAN) per RAT and according to the following:

4> for each neighbour cell included, include the optional fields that are available;

NOTE 2: The UE includes the latest results of the available measurements as used for cell reselection evaluation, which are performed in accordance with the performance requirements as specified in TS 36.133 [16].

3> if available, set the *logMeasResultListWLAN* to include the WLAN measurement results, in order of decreasing RSSI for WLAN APs;

3> if available, set the *logMeasResultListBT* to include the Bluetooth measurement results, in order of decreasing RSSI for Bluetooth beacons;

3> if detailed location information is available, set the content of the *locationInfo* as follows:

4> include the *locationCoordinates*;

4> include the *horizontalVelocity*, if available;

NOTE 3: Which location information related configuration is used by the UE to make the *logMeasResultListWLAN, logMeasResultListBT* and *locationInfo* available for inclusion in the *VarConnEstFailReport* is left to UE implementation.

3> set the *numberOfPreamblesSent* to indicate the number of preambles sent by MAC for the failed random access procedure;

3> set *contentionDetected* to indicate whether contention resolution was not successful as specified in TS 36.321 [6] for at least one of the transmitted preambles for the failed random access procedure;

3> set *maxTxPowerReached* to indicate whether or not the maximum power level was used for the last transmitted preamble, see TS 36.321 [6];

2> if in RRC\_INACTIVE:

3> perform the actions upon leaving RRC\_INACTIVE as specified in 5.3.12, with release cause 'RRC Resume failure';

2> else inform upper layers about the failure to establish the RRC connection or failure to resume the RRC connection with suspend indication, upon which the procedure ends;

The UE may discard the connection establishment failure information, i.e. release the UE variable *VarConnEstFailReport,* 48 hours after the failure is detected, upon power off or upon detach.

*Next change*

Annex G (normative): List of CRs Containing Early Implementable Features and Corrections

This annex lists the Change Requests (CRs) whose changes may be implemented by a UE of an earlier release than which the CR was approved in (i.e. CRs that contain on their coversheets the sentence "Implementation of this CR from Rel-N will not cause interoperability issues").

Table G-1: List of CRs Containing Early Implementable Features and Corrections

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TDoc Number (RP-xxxxxx): CR Title | CR Number(s) | CR Revision Number(s) | Earliest Implementable Release | Additional Information |
| RP-181233: Successful acknowledgement of RRCConnectionRelease for BL and CE UE | 3324 | 1 | Release 13 | *RRCConnectionRelease* message, for which the poll bit is not set, can be considered succesfully acknowledged when UE has sent HARQ ACK feedback. |
| RP-182674: CR for T312 on LTE HetNet mobility | 3506 | 5 | Release 12 | Remove T312 in leaving condition for event trigger. |
| RP-182671: Corrections on paging monitoring and SI acquisition in RRC\_CONNECTED for BL UEs and UEs in CE | 3647 | 2 | Release 13 |  |
| RP-190548: Update description of ack-NACK-NumRepetitions | 3899 | 2 | Release 13 |  |
| RP-190548: Corrections of NB-IoT Access Barring | 3900 | 2 | Release 13 |  |
| RP-191382: SI update notification and access barring in NB-IoT | 4020 | 2 | Release 13 |  |
| RP-192195 : Correction on handling of SCell(s) during Make Before Break handover | 3986 | 3 | Release 14 |  |
| RP-192940: Stop using redirectedCarrierOffsetDedicated after reselection to another frequency | 4144 | 1 | Release 14 |  |
| RP-200338: Corrections to T312 and Discovery Signals measurement | 4198 | 1 | Release 12 |  |
| RP-200367: Correction on H1 and H2 events | 4103 | 2 | Release 15 |  |
| RP-201166: Allowing PDCP version change without handover | 4262 | 2 | Release 15 |  |
| RP-201166: upperLayerIndication enhancements | 4266 | 3 | Release 15 |  |
| RP-201192: Relaxed serving cell measurement for UEs using WUS | 4344 | - | Release 15 |  |
| RP-202780: Corrections to the field descriptions for TDD/FDD capability differentiation, and to nMaxResource value range | 4389 | 5 | Release 12 | The CR corrects multiple UE capability field descriptions introduced in various releases, the changes are early implementable back to the release in which the corresponding capability was introduced. |
| RP-202789: Correction on uac-AC1-SelectAssistInfo | 4488 | 2 | Release 15 |  |
| RP-211481: Clarification on the initiation of RNA update | 4651 | 1 | Release 15 |  |
| RP-212596: Distinguishing support of extended band n77 | 4723 | 2 | Release 15 |  |
| RP-220472: Introduction of carrier specific NRSRP thresholds for NPRACH resource selection | 4777 | 1 | Release 14 |  |
| RP-221738: Distinguishing support of band n77 restrictions in Canada | 4799 | 2 | Release 15 |  |
| RP-232570: Addition of extended number range for NS value | 4917 | 6 | Release 16 |  |
| RP-233884: Correction to flightPathInfoAvailable when connected to 5GC | 4959 | 2 | Release 15 |  |
| RP-233883: Protection against improper reselection to GERAN/UTRAN [RESELECTION\_TO GSM\_AND\_UTRAN] | 4971 | 1 | Release 15 |  |
| RP-xxxxxx: Addition of reference to 38.304 for Qoffsettemp handling | 5080 | x | Release 12 |  |
| NOTE 1: In case a CR has mirror CR(s), the mirror CR(s) are not listed.  NOTE 2: The Additional Information column briefly describes the content of a CR in cases where the CR title may not be descriptive enough. If the CR title is descriptive enough, then the Additional Information column may be left blank. | | | | |

*End of Changes*