**3GPP TSG-RAN WG2 Meeting #113e *R2-21xxxxx***

**Electronic Meeting** **Jan 25-Feb 05, 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.300**> | **CR** | **033** | **rev** | **1** | **Current version:** | **16.4.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Release with Redirect for connection resume triggered by NAS |
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| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core, TEI16 |  | ***Date:*** | 2020-02-03 |
|  |  |  |  |  |
| ***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 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:*** | In Rel-15, it was agreed to not support the case that UE may receive a Release with Redirect in Response to a Resume Request (2-steps) at a NAS initiated resume of the RRC Connection. Corresponding changes in Rel-16 version of NAS specification TS 24.501 is already in place, but is currently missing in AS specifications.Currently, TS 38.300 does not cover RRC connection resume triggered by UE NAS layer.For further details, see R2-2101289. |
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| ***Summary of change:*** | Added Note to indicate that similar procedure to RNA Update can be used in case the network responds with *RRCRelease* with redirect information to an *RRCResume* request triggered by UE NAS.**Impact Analysis**Impacted 5G architecture options: NR SA Impacted functionality: RRC Resume and Release with RedirectInter-operability:1. If the network is implemented according to the CR and the UE is not, there are no inter-operability problems.2. If the UE is implemented according to the CR and the network is not, there are no inter-operability problems. |
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| ***Consequences if not approved:*** | RRC connection resume triggered by UE NAS layer will not be covered in Stage 2 specification |
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| ***Clauses affected:*** | 9.2.2.x (new) |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.306 CR503TS 38.331 CR2402 |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revision of R2-2101292 |

9.2.2.x Resume request responded with Release with Redirect, with UE context relocation

The following figure describes a UE triggered NAS procedure responded by the network with a release with redirect, with UE context relocation.



**Figure 9.2.2.X-1: Resume request responded with Release with Redirect, with** **UE Context relocation**

1. The UE resumes from RRC\_INACTIVE, providing the I-RNTI allocated by the last serving gNB.

2. The gNB, if able to resolve the gNB identity contained in the I-RNTI, requests the last serving gNB to provide UE Context data.

3. The last serving gNB provides the UE context.

4. The gNB may move the UE to RRC\_CONNECTED (and the procedure follows step 4 of Figure 9.2.2.4.1-1), or send the UE back to RRC\_IDLE (in which case an *RRCRelease* message is sent by the gNB), or send the UE back to RRC\_INACTIVE, including a release with redirect indication (as assumed in the following).

5. If loss of DL user data buffered in the last serving gNB shall be prevented, the gNB provides forwarding addresses.

6./7. The gNB performs path switch.

8. The gNB keeps the UE in RRC\_INACTIVE state by sending *RRCRelease* with suspend indication, including redirection information (frequency layer the UE performs cell selection upon entering RRC\_INACTIVE).

9. The gNB triggers the release of the UE resources at the last serving gNB.

NOTE1: Upon receiving the release with redirect, the higher layers trigger a pending procedure so the UE tries to resume again after cell selection.

NOTE 2: In this release, the Resume request responded with Release with Redirect without UE Context relocation is not supported

#### End of changes