**3GPP TSG-RAN WG3 Meeting #112-e *R3-212894***

**E-meeting, 17-28 May 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.413** | **CR** | **0376** | **rev** | **5** | **Current version:** | 16.5.0 |  |
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| *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 | **X** |

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| ***Title:***  | NAS Non-Delivery |
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| ***Source to WG:*** | Huawei, CATT, Ericsson, ZTE |
| ***Source to TSG:*** | RAN3 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core, TEI16 |  | ***Date:*** | 2021-05-26 |
|  |  |  |  |  |
| ***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:*** | The SA2 reply LS was received in R3-211457.For the 1st question, SA2 has specified that in case of UE, in CM-CONNECTED mode, performs Service Request procedure to active user plane of PDU session, Service Accept can be included in the NAS PDU of the message in response to UE initiated Service Request. Basically SA2 think that for the non-PDU session related NAS-PDU in the "PDU Session Resource Setup", the NAS non-delivery may be needed. This is due to the fact there is no response message to indicate the cause for these UE level NAS-PDU. Hence, there is a need to report the NAS NON DELIVERY INDICATION for the non-PDU session related NAS-PDU in the PDU SESSION RESOURCE SETUP REQUEST message.  |
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| ***Summary of change:*** | Update the NAS NON DELIEVERY INDICATION to be also used for the non-PDU session related NAS-PDU in the PDU SESSION RESOURCE SETUP REQUEST message.  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 corrects the NGAP on the NAS non-delivery.The impact can be considered isolated because the change only affects the NAS non-delivery function. |
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| ***Consequences if not approved:*** | The unsuccessful UE level NAS-PDU delivery in the PDU Session Resource Setup procedure can not be notified to the CN.   |
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| ***Clauses affected:*** | 9.2.5.4 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS38.413 ... CR 0573 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev1: R3-203642Rev2: R3-204990 Update based on the SA2 LS reply R3-204239Rev3: R3-206441 Submitted to RAN3-110-e meetingRev4: R3-211924 Update based on the SA2 LS replyRev5: [R3-212894](file:///E%3A%5C3GPP%5C%E4%BC%9A%E8%AE%AE%E6%96%87%E4%BB%B6%5CRAN3%5C2021%E5%B9%B4%5CRAN3%23112e%5CDocs%5CR3-211924.zip) Focus on the non-PDU session related NAS-PDU in the PDU Session Resource Setup Request message.  |

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| **Change Begins** |

**<Unchanged Text Omitted>**

#### 9.2.5.4 NAS NON DELIVERY INDICATION

This message is sent by the NG-RAN node and is used for reporting the non-delivery of a NAS PDU previously received within a DOWNLINK NAS TRANSPORT message or the *NAS-PDU* IE previously received within the PDU SESSION RESOURCE SETUP REQUEST message over the NG interface.

Direction: NG-RAN node → AMF

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| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.3.1.1 |  | YES | ignore |
| AMF UE NGAP ID | M |  | 9.3.3.1 |  | YES | reject |
| RAN UE NGAP ID | M |  | 9.3.3.2 |  | YES | reject |
| NAS-PDU | M |  | 9.3.3.4 |  | YES | ignore |
| Cause | M |  | 9.3.1.2 |  | YES | ignore |

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| **Change Ends** |