**3GPP TSG-RAN WG3 Meeting #120R3-233393**

**Incheon, Korea, 22nd – 26th May 2023**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **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:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core |  | ***Date:*** | 2023-05-22 |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***Release:*** |  |
|  | *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)****S*** *(adding to the sourcing companies’ CR statistics)*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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | Some elementary procedures of NGAP specify the “Unsuccessful Operation” by means of procedural text contained in the “Successful Operation” section of that elementary procedure. Such elementary procedures are defined without a message with the *Type of Message* IE set to "Unsuccessful Outcome" Discussions at RAN3#120 revealed that there is the possibility to interpret the statement “The unsuccessful operation is specified in the successful operation section.” such, that the message with the *Type of Message* IE set to "Successful Outcome" defined for that elementary procedure reports any unsuccessful operation of the respective elementary procedure, including protocol errors, for which the nodal behaviour is specified in Chapter 10 of NGAP and which content could contradict such interpretation. |
|  |  |
| ***Summary of change:*** | Introduce explicit statements in “Unsuccessful Operation” sections of those elementatory procedures which contain the statement “The unsuccessful operation is specified in the successful operation section.” to exclude the possibility to interpret this statement such that the message with the *Type of Message* IE set to "Successful Outcome" defined for that elementary procedure reports any kind of unsuccessful operation of the respective elementary procedure, including protocol errors, by defining the protocol functions for which these statements are applicable.Section 9.2.2.3 was voided, as the “Successful Operation” section doesn’t contain any statement concerning the “Unsuccessful Operation”.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 corrects the unsuccessful operation of elementary procedures for which no message is defined to report the unsuccessful outcome for protocol errors in the PDU Session Resource Setup procedure, the PDU Session Resource Release procedure, the PDU Session Resource Modify procedure and the PDU Session Resource Modify Indication procedure.The change is can be considered no backwards compatible from a functionsal point of view to those implementations that do not follow the explicit statements introduced by this CR. |
|  |  |
| ***Consequences if not approved:*** | The possbility to interprete the statement “The unsuccessful operation is specified in the successful operation section.” in “Unsuccessful Operation” sections such that the message with the *Type of Message* IE set to "Successful Outcome" defined for the respective elementary procedure reports any unsuccessful operation of the elementary procedure, including protocol errors, would still remain. |
|  |  |
| ***Clauses affected:*** | 8.2.1.3, 8.2.2.3, 8.2.3.3, 8.2.5.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

<<<<<<<<<<<<<<<<<<<< First Change >>>>>>>>>>>>>>>>>>>>

### 8.2.1 PDU Session Resource Setup

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

#### 8.2.1.3 Unsuccessful Operation

The unsuccessful operation concerning the establishment of PDU Session Resources and QoS flows is specified in the successful operation section.

<<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

### 8.2.2 PDU Session Resource Release

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

#### 8.2.2.3 Unsuccessful Operation

Void

<<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

### 8.2.3 PDU Session Resource Modify

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

#### 8.2.3.3 Unsuccessful Operation

The unsuccessful operation concerning the establishment or modification of PDU Session Resources and QoS flows is specified in the successful operation section.

<<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

### 8.2.5 PDU Session Resource Modify Indication

<<<<<<<<<<<<<<<<<<<< Unmodified Text Omitted >>>>>>>>>>>>>>>>>>>>

#### 8.2.5.3 Unsuccessful Operation

The unsuccessful operation concerning the modification of PDU Session Resources and QoS flows is specified in the successful operation section.

<<<<<<<<<<<<<<<<<<<< End of Changes >>>>>>>>>>>>>>>>>>>>