**3GPP TSG-CT WG1 Meeting #133-bis-eC1-220238**

**E-meeting, 17-21 January 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **3881** | **rev** | **1** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | NSAC during PDU session transfer with the Allowed PDU session status IE | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNS\_Ph2 | | | | |  | ***Date:*** | | | 2022-01-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | NSAC can occur during PDU session establishment when a session is established over a particular access type. However, a new session can be considered to be associated with the 3GPP if the session is transferred by means of the Allowed PDU session status IE.  Since NSAC is required before a session is admitted, it is therefore required when a session is transferred to the 3GPP access using the Allowed PDU session status. This is currently missing and so the NSAC is bypassed when sessions are transferred with this IE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | When the AMF requests the SMF to establish user-plane resources, during the service request procedure for a PDU session that is indicated in the Allowed PDU session status IE, the SMF should perform NSAC and admit the session if the the maximum number of PDU sessions on a network slice associated with an S-NSSAI has not been already reached, otherwise the session is not considered to be associated with the 3GPP access and hence the user-plane resources are not established. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | NSAC is bypassed when a session is transferred to the 3GPP access via the Allowed PDU session status IE and hence NSAC would not work accurately. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.6.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\*\* START CHANGES \*\*\*\*\*\*

#### 4.6.3.1 Session management based network slice admission control

A serving PLMN or the HPLMN can perform network slice admission control for the S-NSSAI(s) subject to NSAC to monitor and control the total number of established PDU sessions per network slice. The SMF performs network slice admission control on the S-NSSAI during the PDU session establishment procedure. If the maximum number of PDU sessions on a network slice associated with an S-NSSAI has been already reached, the SMF rejects the PDU session establishment request using S-NSSAI based congestion control as specifed in subclause 6.2.8 and 6.4.1.4.2.

The SMF performs network slice admission control on the S-NSSAI for a PDU session that is associated with the non-3GPP access, when the UE requests to transfer a session from the non-3GPP access to the 3GPP access with the Allowed PDU session status IE as described in subclause 5.6.1.4. If the maximum number of PDU sessions on a network slice associated with an S-NSSAI has been already reached, the SMF rejects the request to establish the user-plane resources (see 3GPP TS 29.502 [20A]).

Based on operator policy, the session management based network slice admission control is not applicable for the S-NSSAI included in the SMF emergency configuration data.

NOTE: For the MA PDU session during the PDU session establishment procedure, the SMF performs network slice admission control only when it is newly established over the associated access type.

\*\*\*\*\*\* END CHANGES \*\*\*\*\*\*