**3GPP TSG-SA5 Meeting #130-e *S5-202148***

**Online, , 20th Apr 2020 - 28th Apr 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.531** | **CR** | **0044** | **rev** | **-** | **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:*** | Rel-16 CR TS 28.531 fix Network Slice subnet termination use case | | | | | | | | | |
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| ***Source to WG:*** | Huawei Technologies Co.,Ltd. | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NETSLICE-PRO\_NS | | | | |  | ***Date:*** | | | 2020-04-10s |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | The management object for NFVO is NS and VNF, the concept of NSI and NSSI is invisible to NFVO. In the Network slice subnet instance termination use case, the network slice subnet provisioning management service provider can not indicate NFVO that the NSI is no longer needed for the NSSI. | | | | | | | | |
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| ***Summary of change:*** | | Make it clear that in the NSSI termination procedure the network slice subnet provisioning management service provider may only trigger corresponding request to NFVO for terminating or updating the NS instance. | | | | | | | | |
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| ***Consequences if not approved:*** | | Mislead the reader that there is a requirement for NFVO to manage NSI and NSSI. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **1st Change** |

### 5.1.4 Network slice subnet instance termination

| Use case stage | Evolution/Specification | <<Uses>> Related use |
| --- | --- | --- |
| **Goal** | To terminate or disassociate an existing NSSI which was used by the NSI or NSSI, but is no longer needed |  |
| **Actors and Roles** | Network slice subnet provisioning management service consumer. |  |
| **Telecom resources** | Network slice subnet instance Network slice subnet provisioning management service provider. |  |
| **Assumptions** | N/A |  |
| **Pre-conditions** | N/A |  |
| **Begins when** | The network slice subnet provisioning management service provider receives network slice subnet related request from its authorized consumer indicating that an existing NSSI is no longer needed. |  |
| **Step 1 (M)** | Based on the request, the network slice subnet provisioning management service provider decides whether the NSSI should be terminated.  If the decision is the NSSI should be terminated, go to the Step 2.  If the decision is the NSSI is not terminated (e.g., the NSSI is shared or the network slice subnet provisioning management service provider decides to keep the NSSI for later use), the network slice subnet provisioning management service provider disassociates the NSSI from its consumer and provides feedback to the authorized consumer, maybe with removing its consumer’s configuration or not. Go to Step 5. |  |
| **Step 2 (M)** | If the NSSI consists of constituent NSSIs that are not managed directly by the network slice subnet provisioning management service provider, the network slice subnet provisioning management service provider sends a request to other network slice subnet provisioning management service provider(s) indicating that the constituent NSSIs are no longer needed for the NSSI. |  |
| **Step 3 (M)** | If the NSSI is associated with NSI, the network slice subnet provisioning management service provider disassociates the NSI with the NSSI to be terminated, and the network slice subnet provisioning management service provider may trigger corresponding request to NFVO for terminating or updating (e.g. scaling-in) the NS instance. . (see note) |  |
| **Step 4 (M)** | If there exists a transport network segment used by the NSSI, the network slice subnet provisioning management service provider may indicate that the transport network segment is no longer needed to support the NSSI. |  |
| **Step 5 (M)** | The network slice subnet provisioning management service provider sends response to its consumer. |  |
| **Ends when** | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the steps identified above fails. |  |
| **Post-conditions** | The NSSI has been terminated. |  |
| **Traceability** | REQ-PRO\_NSSI-FUN-8, REQ-PRO\_NSSI-FUN-11 |  |
| NOTE: In case the NS instance is not dedicated for the NSSI, the network slice subnet provisioning management service provider shall not terminate the NS instance. | | |

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| **1st Change End** |