**3GPP TSG-SA5 Meeting #145-e *S5-225086***

**e-meeting, 15 - 24 August 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** | **17.4.0** |  |
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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:***  | Update procedures for modification of Network Slice and Network Slice Subnet MOIs |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | S5 |
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| ***Work item code:*** | eNETSLICE\_PRO |  | ***Date:*** | 2022-08-04 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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 sequence diagrams for Network Slice Instance Modification and Network Slice Subnet Instance Modification are incorrect.  |
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| ***Summary of change:*** | The sequence diagrams in figure 7.6-1 and figure 7.7-1 are corrected to reflect the correct APIs.Abbreviations for Network Slice Subnet Management Service Provider and Network Slice Subnet Management Service Consumer corrected in clause 7.7 |
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| ***Consequences if not approved:*** | Incorrect specification leads to confusion and incorrect implementation. |
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| ***Clauses affected:*** | 7.6, 7.7 |
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|  | **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 ... |
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| ***Other comments:*** | 1. S5-225086 is CR converted from draftCR S5-224279 that was approved in #144e meeting.
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| ***This CR's revision history:*** | 1. Cover page updated to correct the category of the CR and to reflect in other comments that the CR is converted from draftCR from #144e to CR in #145e.
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| **1st Change** |

7.6 Procedure of Network Slice Instance Modification

The Figure 7.6-1 illustrates the procedure of modifying an existing NSI.



**Figure 7.6-1: Network Slice Instance Modification Request procedure**

1) Network Slice Management Service Provider (NSMS\_P) receives a modifyMOIAttributes operation defined in TS 28.532 [8] from Network Slice Management Service Consumer (NSMS\_C) with the DN of NetworkSlice MOI and the new network slice related requirements (see ServiceProfile defined in clause 6.3.3 in TS 28.541[6]).

2) Based on the new network slice related requirements, NSMS\_P invokes the feasibility check procedure. If the modification requirements can be satisfied, go to step 3), else go to step 5).

3) NSMS\_P decomposes the NetworkSlice MOI modification request into NSSI modification request(s), i.e., generating the new network slice subnet related requirements for each NSSI if needed.

4) NSMS\_P, as the role of Network Slice Subnet Management Service Consumer (NSSMS\_C), invokes the NSSI modification procedure.

5) NSMS\_P sends NSI modification result (see modifyMOIAttributes operation defined in TS 28.532 [8]) to NSMS\_C.

7.7 Procedure of Network Slice Subnet Instance Modification

The Figure 7.7-1 illustrates the procedure of modifying an existing NSSI.



**Figure 7.7-1: Network Slice Subnet Instance Modification Request procedure**

1) Network Slice Subnet Management Service Provider (NSSMS\_P) receives a modifyMOIAttributes operation defined in TS 28.532 [8] from Network Slice Subnet Management Service Consumer (NSSMS\_C) with the DN of NetworkSliceSubnet MOI and the new network slice subnet related requirements (see SliceProfile defined in clause 6.3.3 in TS 28.541[6]).

2) Based on the new network slice subnet related requirements, NSSMS\_P invokes the feasibility check procedure. If the modification requirements can be satisfied, go to step 3), else go to step 5).

3) NSSMS\_P decomposes the NetworkSliceSubnet MOI modification request into modification requests for each NSSI constituent.

4a) If the requested NSSI constituent is constituent NSSI, NSSMS\_P invokes NSSI modification procedure as described in clause 7.7.

4b) If the requested NSSI constituent is NF instance, NSSMS\_P invokes NF creation procedure as described in clause 7.10 or NF modification procedure as described in clause 7.11.

4c) If the NSSI contains the virtualized part, NSSMS\_P invokes the NS instance scaling and/or NS instance updating and/or NS instance instantiation procedure as described in TS 28.526 [7].

4d) If the NSSI contains the TN part, NSSMS\_P invokes the TN related coordination procedure as described in clause 7.9.

5) NSSMS\_P sends NSSI modification results (see modifyMOIAttributes operation defined in TS 28.532 [8]) to NSSMS\_C.

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| **End of change** |