**3GPP TSG-SA5 Meeting #131e *S5-203188***

**e-meeting 25th May-3rd June 2020**

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| *CR-Form-v11.4* |
| **CHANGE REQUEST** |
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|  | **28.550** | **CR** | **0057** | **rev** | **1** | **Current version:** | **16.4.0** |  |
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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:***  | Add use case for performance management supporting multiple tenant |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
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| ***Work item code:*** | MEMTANE |  | ***Date:*** | 2020-05-12 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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-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:*** | According to the CR S5-202334, S5-202161 agreed in SA5#130e meeting, the tenant can take the role NSC consumer in the NSaS scenario and the subcounter performance per S-NSSAI can be used for tenant. However, corresponding performance management supporting multiple tenants in the NSaaS scenario use case is missing in TS 28.550 |
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| ***Summary of change:*** | Add performance management supporting multiple tenants in the NSaaS scenario use case |
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| ***Consequences if not approved:*** |  |
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| ***Clauses affected:*** | 5.1.X(new), 5.2.X(new) |
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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:*** |  |

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| ***This CR's revision history:*** |  |

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| **1st Change** |

### 5.1.X Performance management supporting multiple tenants in the NSaaS scenario

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | To enable the tenant obtain their own network slice performance data individually in the Network Slice as a Service (NSaaS) scenario. |  |
| **Actors and Roles** | Tenant plays the role of network slice performance data consumer |  |
| **Telecom resources** | Network slice performance data providerNetwork slice subnet data provider |  |
| **Assumptions** | N/A |  |
| **Pre-conditions** | Several S-NSSAI(s) associated to the tenant is configured for network slice and corresponding network slice subnet and NF |  |
| **Begins when**  | The authorized network slice performance data consumer (i.e. tenant) request the network slice performance data provider to report his own performance data. |  |
| **Step 1 (M)** | Network slice performance data provider request the network slice subnet performance data provider report the network slice subnet and/or network function performance data with information indicating the performance data needs to be collected in S-NSSAI granuarity and the S-NSSAI(s) associated to the tenant.  |  |
| **Step 2 (M)** | Network slice subnet performance data report the network slice subnet performance data, and the network slice subnet performance data in S-NSSAI granularity should be included (i.e. the S-NSSAI is included in the network slice subnet performance data to indicate the associated tenant) |  |
| **Step 3 (M)** | Based on the network slice subnet performance data for the S-NSSAI(s) associated to the tenant, the network slice performance data provider derive the network slice performance data for the tenant (e.g. calculate the network slice performance data based on all the network slice subnet performance data related to S-NSSAI(s) associated to the tenant). |  |
| **Ends when**  | Network slice performance data provider report the tenant’s own network slice performance data to the tenant, the S-NSSAI information may be included. |  |
| **Exceptions** | One of the steps identified above fails. |  |
| **Post-conditions** | Tenant obtain their own network slice performance data individually in the Network Slice as a Service (NSaaS) scenario. |  |
| **Traceability**  |  |  |

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| **2nd Change** |

### 5.2.X Requirements for performance management supporting multiple tenants

**REQ-PM\_NSI-FUN-X** The network slice performance data provider shall have the capability to allow its authorized consumer (i.e. tenant) to obtain its own network slice performance data individually in the Network Slice as a Service scenario.

**REQ-PM\_NSI-FUN-Y** The network slice performance data provider shall have the capability to derive the network slice performance data for the each authorized consumer (i.e. tenant) based on the network slice subnet and/or network function performance data related to S-NSSAI(s) associated to the authorized consumer (i.e. tenant).

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| **End of Change** |